September 2020

TO ALL OUR VALUED CUSTOMERS AND CAL-ROYAL REPRESENTATIVES:

We are very pleased to announce the delivery of our ***NEW*** and **REFORMATTED** catalog and price book.

The **THRESHOLDS** section is now combined with the new section **DOOR WEATHER SEALS**.

We are now transitioning from the regular **7700 SERIES EXIT DEVICES** to **ADA** 7700 SERIES EXIT DEVICES according to Americans with Disability Act (**ADA**) standards with 5 lbs. opening force on Rim, Surface Vertical Rod, and Surface Vertical Less Bottom Rod (LBR) types only. ***Available September / October***

Due to the rising cost of materials, new sourcing, freight and labor, Cal-Royal is announcing a **PRICE DECREASE** on some of our Thresholds. **PRICE DECREASE AND PRICE INCREASES** on Builders Hardware products effective ***September 1, 2020***.

There will also be a slight price increase on our **ELECTRIFIED** Exit Device Trims.
Price decrease on **ALL ELECTRIFIED HINGES.**

The **LITES & LOUVERS** prices will be rounded up to the nearest whole number to avoid miscalculations and confusion. We hope that with this revision we'll be able to ease, if not, completely avoid mistakes in computation and thus, make calculations simple and easier for you.

Cal-Royal will continue to honor valid quotations until **October 31st 2020.**

To receive a link of electronic versions of our new catalog and price book, please send an email to ***info@cal-royal.com*** with your company name, company address, and company email. Place "**NEW-CAT-2020**" as the subject line. You can also request for a USB flash drive (part # **CRP-USBKEY**) as needed. Printed catalog and price book will also be available around ***early October*** as requested only.

Also, please see attached new product summary for quick reference of all new product additions and updates. The new price book supersedes the price book dated **June 27th, 2019** and we continue to work diligently to keep our costs in check and pricing very competitive.

We encourage you to sign up in our mailing list to receive regular updates and product announcements. You may send an email to ***info@cal-royal.com*** to subscribe to our mailing list.

We thank you for your continued business and support. As new products and product lines are added in our catalog, we will send out announcements via fax and email.

Sincerely,
Cal-Royal Products, Inc.

NEW PRODUCTS UPDATE

DOOR CLOSERS

- **NEW** KN900PBF ALUM Door Closer, Made in Korea (refer to DC1)
- **NEW** RHDSA-SS Cushion Heavy Duty Stop Spring Arm with Spring Shoe (refer to DC2, DC10, DC13, DC14)
- **NEW** RHDSTP Cushion Heavy Duty Stop Arm (refer to DC2, DC10, DC13, DC14)
- **NEW** KCR441 and KCR441DA ALUM Door Closers, Made in Korea (refer to DC4)
- **NEW** CR271PC ALUM Door Closer, CR441 Series, Heavy Duty Pocket Door Closer Application (refer to DC5)
- **NEW** CONCR441 KIT, longer steel mounting plate that covers the entire CR441 door closers (refer to DC6)
- **NEW** N500PBF Door Closer with slim plastic cover and sex bolts (refer to DC14)
- **NEW** 88 Series, Concealed Overhead Door Closers with Fixed and Adjustable Power Spring (refer to DC20-DC21)
- **NEW** 8600 Series, Automatic "Low Energy" Swing Door Operator (refer to DC23-DC27) ***Available September / October***

LOCKSETS

- **NEW** NM Series Anti-Friction Latch Bolt, All Stainless Steel without Plastic (refer to page 2 of Locksets Catalog)
- **NEW** SS Sectional Trim & SE Escutcheon Trim US10B for NM8050, NM8080, NM8453, NM8456 functions (refer to L1 & L6)
- **NEW** WE Escutcheon Trim US26D and US19 for NM8080, NM8453, NM8010 functions (refer to L10) ***Available September / October***
- **NEW** NM300 Series Electrified Mortise Locks (refer to L18)
- **NEW** WE Escutcheon Trim US26D for SC8080, SC8453, SC8010 functions (refer to L22) ***Available September / October***
- **NEW** WS Sectional Trim, and WE Escutcheon Trim for SC Series Mortise Locks in US19 (refer to L20 & L22)
- **NEW** SC400 Series Electrified Mortise Locks (refer to L25)
- **NEW** Genesys Series US32D Stainless Steel Material (refer to L32) ***Available August***
- **NEW** Genesys Series GN, AT, SPA lever designs US1 (refer to L32-L33) ***Available September / October***
- **NEW** Genesys Series AUG, DAN, LON, TAC lever designs available in SFIC and LFIC (refer to L35) ***Available September / October***
- **NEW** Genesys Series GN, AT, SPA lever designs available in Schlage, Sargent, Corbin/Russwin, and Yale LFIC (refer to L36-L37)
- **NEW** LRC Series, Heavy Duty Cylindrical Lockset with Ligature Resistant Lever (refer to L42)
- **NEW** Tuscany Series 2-AUG, 2-DAN, 2-LON, 2-TAC lever designs (refer to L56) ***Available September / October***
- **NEW** Commander Series 2-AT, 2-SPA, 2-AUG, 2-DAN, 2-LON, 2-TAC designs LFIC (refer to L58) ***Available September / October***
- **NEW** CRCODE204 Universal Trim for 6600, 7700, 9800, and 2200 Series Exit Devices (refer to L67)
- **NEW** XP-T360-05, Explorer Series, XP inside lever with T360 Outside Deadbolt, Storeroom function (refer to L52)
- **NEW** Challenger Series now available in Square Rose option (refer to L62-L63)
- **NEW** Challenger Series ROC-SQ US1 (refer to L62)
- **NEW** TBA Series, Made in Taiwan Barrington Knob functions US19 (refer to L68)
- **NEW** BA-SG05, Barrington Series, SG inside Lever with BA keyed outside knob, Storeroom function (refer to L69)
- **NEW** HIL05 US26D and US15, HIL Series Interconnected Leverset, Double Locking Storeroom Lever (refer to L72)
- **NEW** JHIL05 US26D and US15, JHIL Series Interconnected Leverset, Double Locking Storeroom Lever (refer to L73)
- **NEW** JHIL00 and JHIL30 US26, JHIL Series Interconnected Leverset (refer to L73)
- **NEW** JHIL30 and JHILROC30 US1, JHIL Series Interconnected Leverset, Single Locking Passage Lever (refer to L73)
- **NEW** IND-JHIL05 and IND-JHIL30 US26D, JHIL Series Interconnected with Indicator Deadbolt (refer to L73) ***Available September / October***
- **NEW** CIL Series, Contemporary Interconnected Leverset (refer to L74)
- **NEW** SCICULT360 US26D and US10B, T300 Series, Heavy Duty Single Cylinder Deadbolt with Schlage LFIC (refer to L80)
- **NEW** ULT360 US1, T300 Series, Heavy Duty Single Cylinder Deadbolt (refer to L80)
- **NEW** ULT360, ICULT360, and ULT362 US32D, T300 Series, Heavy Duty Deadbolts (refer to L80) ***Available September / October***
- **NEW** SQ300 Series, Contemporary Square Heavy Duty Deadbolts (refer to L82)
- **NEW** SMTT-160, Optional Small Thumbturn for CB160 Series Deadbolts (refer to L87)
- **NEW** IND90-G2 Series, Commercial Indicator Deadbolts (refer to L88)
- **NEW** INDLEV-20 Series, Commercial Grade Privacy Indicator Leverset (refer to L95)
- **NEW** KOBE lever design, Chelsie Series Leverset (refer to L99) ***Available August***
- **NEW** LENOX lever design US1, Chelsie Series Leverset (refer to L99) ***Available September / October***
- **NEW** ALLURE lever design US1, Heritage Series Leverset (refer to L102) ***Available September / October***
- **NEW** DELAWARE lever design US15 & US1, Heritage Series Leverset (refer to L102) ***Available September / October***
- **NEW** MEMPHIS lever design US15 & US1, Heritage Series Leverset (refer to L102) ***Available August***
- **NEW** HOLLAND lever design US1, Contemporary Series Leverset (refer to L104)
- **NEW** Grand Series, Grade 2 Tubular Leversets available with factory lead time (refer to L65) ***Available September / October***
- **NEW** Select Grade 3 Locksets / Deadbolts in US1 finish available with factory lead time (refer to L99, L101, L102, L104-L105, L108-L109, L110, L113-L114, L116-L117)
- **NEW PRICES** T400 Series, Commercial / Residential Heavy Duty Deadbolts (refer to L84)

NEW PRODUCTS UPDATE

CYLINDERS, KEYS & KEYING

- **NEW** ICPTT, Temporary Plastic Core Thumbturn (refer to L119)
- **NEW** SHTOOL, SFIC Housing Poll Shear Tool (refer to L125)

HINGES

- **NEW FINISHES**
  BB5200 - 4 ½" x 4 ½" Heavy Weight 4-Ball Bearing Full Mortise US1NRP (refer to H1)
  BB55 - 5" x 5" Standard Weight 2-Ball Bearing Full Mortise US1 (refer to H1)
  ELE4BB31 - 4 ½" x 4 ½" Electrified 4 Wires, 26 Gauge, Standard Weight 2-Ball Bearing Full Mortise US1 (refer to H6)
  BBRH40 - 4" x 4", ⅝" RC, Residential Weight 2-Ball Bearing Full Mortise US1D (refer to H9)
  RH40 - 4" x 4", ⅝" RC, Residential Weight Plain Bearing Full Mortise US1NRP (refer to H9)
  RH60 - 4" x 4", ¼" RC, Residential Weight Plain Bearing Full Mortise US1NRP (refer to H10)
  10RH35 - 3 ½" x 3 ½", ⅝" RC, Residential Weight Plain Bearing Full Mortise US4, US26D, US1 (refer to H10)
- **NEW ITEMS**
  ELE4BB5500 - 5" x 5" Electrified 4 Wires, 26 Gauge, Heavy Weight 4-Ball Bearing Full Mortise US10B (refer to H6)
  RH60-349 - 4" x 4", ¼" RC, Residential Weight Plain Bearing Full Mortise packed with ¾" screws US15, US26, US10B (refer to H10)
  SQH-45 - 4 ½" x 4 ½" Heavy Weight Plain Bearing Full Mortise Square Barrel US10B, US15, US26, US26D (refer to H11)
  SQH-44 - 4" x 4" Heavy Weight Plain Bearing Full Mortise Square Barrel US10B, US15, US26, US26D (refer to H11)
  SQH-35 - 3 ½" x 3 ½" Heavy Weight Plain Bearing Full Mortise Square Barrel US10B, US15, US26, US26D (refer to H11)
  3D INVISIBLE HINGES
  CR3D62 - UL Listed, 3D Adjustable Concealed Hinge US1, US4, US10B, US14, US15, US26, US26D, US28 (refer to H15)
  CR3D51 - 3D Adjustable Concealed Hinge US1, US4, US10B, US14, US15, US26, US26D, US28 (refer to H15)
  3D Hinge Accessories (refer to H15)
  OFFSET AND ITERMEDIATE PIVOT HINGES
  PV001 - ¾" Heavy Duty Offset Top and Bottom Pivot Hinge US10B, US32D (refer to H16)
  PV010-LH - ¾" Intermediate Pivot Hinge, Left Hand US10B, US32D (refer to H16)
  PV010-RH - ¾" Intermediate Pivot Hinge, Right Hand US10B, US32D (refer to H16)
  ELEPV010-LH - 4 Wires, 26 Gauge, Electrified Intermediate Offset Pivot Hinge, Left Hand US10B, US32D (refer to H16)
  ELEPV010-RH - 4 Wires, 26 Gauge, Electrified Intermediate Offset Pivot Hinge, Right Hand US10B, US32D (refer to H16)
- **NEW PRICES**
  BBRH40 - 4" x 4", ⅝" RC, Residential Weight 2-Ball Bearing Full Mortise US26DNRP (refer to H9)
  RH40 - 4" x 4", ⅝" RC, Residential Weight Plain Bearing Full Mortise US3NRP, US26DNRP, US15NRP, US32DNRP (refer to H9)
  RH60 - 4" x 4", ¼" RC, Residential Weight Plain Bearing Full Mortise US3NRP, US26DNRP, US26NRP, US32DNRP (refer to H10)
- **NEW LOWER PRICE** on All Electrified Hinges (refer to H6)

EXIT DEVICES

- **NEW** Transitioning into ADA 7700 Series, Rim & Surface Vertical Rod Type (non-fire and fire rated) Exit Devices (refer to E1-E2)
- **NEW** ADA 7700 Series Rim & Surface Vertical Rod Type (non-fire and fire rated) Exit Devices L1 Black finish (refer to E1)
  Available September / October
- **NEW** ESC7700 Escutcheon Exit Device Trims, all functions and lever designs US1 (refer to E4) ***Available September / October***
- **NEW** "RL" lever design: HDRLESC (Heavy Duty Escutcheon) Exit Device Trims US32D (refer to E7, E19)
- **NEW** FGLS7700EO36 & FGLS7700EO48, Narrow Stile Rim Type Fire Rated Exit Devices (refer to E11)
- **NEW** ADA 9800 Series, Rim & Surface Vertical Rod Type (non-fire and fire rated) Exit Devices in L1 Black finish (refer to E15)
  Available September / October
- **NEW** NESC9800 Escutcheon Exit Device Trims, all functions and lever designs US1 (refer to E18) ***Available September / October***
- **NEW** FGLS9800EO36 & FGLS9800EO48, Narrow Stile Rim Type Fire Rated Exit Devices (refer to E26)
- **NEW** 6600 Series, Rim & Surface Vertical Rod Type (non-fire and fire rated) Grade 1 Exit Devices (refer to E30-E31)
- **NEW** ESC6600 & ESC3300 Escutcheon Trims for 6600 Series Exit Devices (refer to E32)
- **NEW** ADA 2200 Series, Rim & Surface Vertical Rod Type (non-fire and fire rated) Exit Devices in L1 Black finish (refer to E37)
  Available September / October
- **NEW** "AT" and "SPA" Lever Design Exit Trims in US26D finish, now available in SFIC and LFIC (refer to E3, E17, E33, E39, E51)
- **NEW** "TUB" Lever Design Exit Trim in US26D finish, now available in SFIC (refer to E3, E17, E33, E39, E51)
- **NEW** GN Design Only: ENT00L, ICENT00L, STR05L, ICSTR05L, PAS30L, DUM40L in US32D finish, All Stainless Steel Exterior (refer to E3, E17, E33, E39, E51) ***Available August***

NEW PRODUCTS UPDATE

EXIT DEVICES

- **NEW** AUG, DAN, LON, TAC Cylindrical Exit Device trims (refer to E3, E17, E33, E39, E51) ***Available September / October***
- **NEW** DEKIT36 (for 36") and DEKIT (for 48"), Delayed Egress Option on 7700 Series Exit Devices (refer to E43)
- **NEW** DECAL-162, Optional DECAL sticker applied on push rail of 7700 Series Exit Devices (refer to E43)
- **NEW** CRPS440B & CRPS480B Power Supplies rated at 4A @ 24V DC (refer to E46)
- **NEW** LCKUL424-TF, Top Fitting Kit to convert UL424 to LCKUL424 (refer to E52)
- **NEW** WALLKIT, Wall Mounted Mullion Storage Kit for UL424 and LCKUL424 (refer to E52)

THRESHOLDS AND DOOR WEATHER SEALS (NEW SECTION)

- **THRESHOLDS combined with DOOR WEATHER SEALS**
- **NEW LOWER PRICES**
  CR2726, ½" (H) x 6" (W) Saddle Thresholds Alum and Duro (refer to DS1)
  CR2767, ½" (H) x 7" (W) Saddle Thresholds Alum and Duro (refer to DS1)
  CR3715, ¼" (H) x 5" (W) Saddle Thresholds Alum and Duro (refer to DS2)
  CR3767, ¼" (H) x 7" (W) Saddle Thresholds Alum and Duro (refer to DS1)
- **NEW ITEMS** ***Available September / October***
  PST-200, PST-201 Panic Saddle Thresholds (refer to DS4)
  ADB-701, ADB-702, ADB-703, ADB-704, ADB-705 Automatic Door Bottoms (refer to DS5)
  C-440, C-880, C-0773 Adhesive Weatherstrips (refer to DS6)
  BWR-301, BW-302, BW-303, BW-305 Brush Weatherstrips (refer to DS7)
  BTSR-107, BTSR-108, BTS-103, BTN-112 Door Bottom Sweeps (refer to DS8)
  DSR-406, DSR-407, DS-403, DS-404, DSR-410 Door Shoes (refer to DS9)
  PG-601, PG-602, PG-603, PG-604 Perimeter Gasketing (refer to DS10)

LITES & LOUVERS

- Now available in **CUSTOM COLORS**, with factory lead time and standard discount only.
  (refer to color chart on the Lites & Louvers Catalog page 1)
- **NEW SIZES**
  SVL672, SVL2472, SVL2474 (refer to LL2)
  VL672, VL2472, VL2474 (refer to LL3)
- **NEW STOCK SIZES IN GREY (-PR, PRIME COAT) FINISH**
  SVL535-PR, SVL627-PR, SVL722-PR, SVL832-PR, SVL1212-PR, SVL2424-PR, SVL2430-PR, SVL2432-PR, SVL2460-PR, SVL2464-PR (refer to LL2)
  VL535-PR, VL627-PR, VL722-PR, VL832-PR, VL1212-PR, VL1818-PR, VL2424-PR, VL2430-PR, VL2432-PR, VL2460-PR, VL2464-PR (refer to LL3)
- **NEW Glass, TEMP20 (STOCK SIZES)**
  TEMP20-1111, TEMP20-2329, TEMP20-434, TEMP20-526, TEMP20-621 (refer to LL12)
- **NEW** Glass TEMP20 Custom Sizes (refer to LL14)
- **NEW** SVL & VL Vision Lite Kits, with Glass TEMP20 Custom Sizes (refer to LL9)

BUILDERS HARDWARE

- **BACK IN STOCK** EP23, Flush Mount Edge Pull US5 (refer to DH12)
- **NEW** MDN5, 5" Modern Numbers (0-9) US1, US15 (refer to DH1)
- **NEW** ASAST, Template ASA Strike (4 ⅞" x 3 ⅜" x 1 ¼") US1 (refer to DH2)
- **NEW** LG28, Latch Guard Protector (3 ½" x 11 ¾") US26D, ALUM, DURO, GOLD (refer to DH3)
- **NEW** BKICK434, BKICK822, BKICK826, BKICK828, BKICK830, BKICK832, BKICK1022, BKICK1026, BKICK1028, BKICK1030, BKICK1032, BKICK1040, BKICK1042, Stainless Steel Kick Plates US32D (refer to DH4)
- **NEW** UL Listed Label Option on Kick Plates not exceeding 16" in height (refer to DH4)
- **NEW** ANO634, ANO834, ANO1034 Aluminum Kick Plates US1 (refer to DH5)
- **NEW** PULPL715, Aluminum Plate with 7" Handle (0.050" x 3 ½" x 15") US1 (refer to DH5)
- **NEW** PULPL915, Aluminum Plate with 9" Handle (0.050" x 4" x 16") US1 (refer to DH5)
- **NEW** PUL-175, Night Latch Cylinder Pull US10B, US32D (refer to DH8)
- **NEW** HPUL-850, Modern Hospital Double Pull Arm with Microban Anti-Microbial Coating US15 & US1 (refer to DH8) ***Available September / October***
- **NEW** HPUSH-3515 & HPUSH-4016, Modern Hospital Double Pull Arm with Push Plate US32D & US1 (refer to DH8) ***Available September / October***

NEW PRODUCTS UPDATE

BUILDERS HARDWARE

- **NEW** PRIULDV200, UL Listed Privacy Door Viewer US4, US19 (refer to DH9)
- **NEW** BBDHG88, Zinc Diecast Swing Bar Door Guard US1 (refer to DH10)
- **NEW** HPDL258, Zinc Diecast Privacy Door Latch US19 (refer to DH10)
- **NEW** PDL-200, Privacy Door Latch Disengage Tool (refer to DH10)
- **NEW** SBDG00, Solid Brass Door Guard with Angle Protector US1, US15 (refer to DH10)
- **NEW** DDSB4, DDSB8, DDSB12, DDSB18, DDSB24, Solid Brass Decorative Dutch Door Bolts US1 (refer to DH13)
- **NEW** MB85R, 6" Solid Brass Flush Bolt Round End US1 (refer to DH14)
- **NEW** MB86S, 6" Solid Brass Flush Bolt Square End US1 (refer to DH14)
- **NEW** SMB85R, 6" Steel Flush Bolt Round End US1 (refer to DH14)
- **NEW** FBS-100, UL Listed Stainless Steel Flip Style Mortise Flush Bolt US32D, US10B (refer to DH15)
- **NEW** RD-12, RD-18, RD-24, RD-36, RD-48, Extended Rods for FBS-100 (refer to DH15)
- **NEW** Auto Flush Bolts, Combination Flush Bolts, and Universal Flush Bolts US1 (refer to DH16-DH18)
- **NEW** UNICO-17, Universal Door Coordinator BLACK, ALUM (refer to DH19)
- **NEW** HDHB40, Heavy Duty Cast Aluminum Handrail Bracket US1 (refer to DH20)
- **NEW** JUHB28, Jumbo Heavy Duty Handrail Bracket US1, US26D (refer to DH20)
- **NEW** SBRS3, 3" Solid Brass Rigid Door Stop US1 (refer to DH21)
- **NEW** SBRS4, 4" Solid Brass Rigid Door Stop US1 (refer to DH21)
- **NEW** HDFS3, 3 ⅛" Heavy Duty Flexible Door Stop US1 (refer to DH22)
- **NEW** JFS13, 3 ¾" Heavy Duty Jumbo Spring Door Stop US1 (refer to DH22)
- **NEW** GS118, GS119, Goose Neck Cast Floor Stops US1 (refer to DH23)
- **NEW** EUS-03, EUS-05, Stainless Steel Floor Door Stops US1 (refer to DH24)
- **NEW** ZNHS-37, High Profile Casted Zinc Dome Stop US10B, US26D (refer to DH24)
- **NEW** ZNLS-21, Low Profile Casted Zinc Dome Stop US10B, US26D (refer to DH24)
- **NEW** ZNUS-82, Universal Heavy Duty Casted Zinc Dome Stop US10B, US26D (refer to DH24)
- **NEW** DSLD81, Light Duty Door Protector Hinge Pin Stop US1 (refer to DH26)
- **NEW** HP95, Hinge Pin Door Stop US1 (refer to DH26) ***Available September / October***
- **NEW** IVHP23 Jumbo Heavy Duty Hinge Pin Stop US1 (refer to DH26) ***Available September / October***
- **NEW** JHP11, Jumbo Hinge Pin Door Stop US1 (refer to DH26)
- **NEW** ASR-41, Adjustable Shelf and Rod Support US26 (refer to DH27)
- **NEW** FSR123, Heavy Duty Shelf and Rod Support US26 (refer to DH27)
- **NEW** OVSR-12, Adjustable Shelf and Oval Rod Support US26 (refer to DH27)
- **NEW** CLR-18, CLR-112, CLR-200, CLR-500, Chrome Plated Closet Rods US26 (refer to DH28)
- **NEW** CLR-30, Chrome Plated Closet Pole Socket for 1 1/16" diameter poles US26 (refer to DH28)
- **NEW** PSHD-10, Heavy Duty Diecast Closet Pole Socket for 1 5/16" diameter poles US26 (refer to DH28)
- **NEW** ARCT3350, Adjustable Roller Catch US19, US26 (refer to DH29)
- **NEW** DIB1, Adjustable Drive -In Ball Catch US1 (refer to DH29)
- **NEW** BK14, Bi-Fold Ball Knob US1 (refer to DH30)
- **NEW** PLA2, Back Plate for BK14 US1 (refer to DH30)
- **NEW** CRP150N, Stainless Steel Flush Cup Pull US10B, US32D (refer to DH30)
- **NEW** DIFP218, Drive-In Finger Pull without nails US1 (refer to DH30)
- **NEW** FP2000, FP3000, FP4000, Solid Brass Flush Pulls US1, US3, US10B, US15, US26, US26D (refer to DH30)
- **NEW** CH01, CH04, CH07, CH10, CH13, CH14, CH25, CH30, Stainless Steel Coat Hooks US32D (refer to DH31)
- **NEW** CON772S, CON774S, CON776S, Medium Duty Concealed Overhead Door Stop US32D (refer to DH32) ***Available August***
- **NEW** CON774H, Medium Duty Concealed Overhead Door Holder with Hold-Open US32D (refer to DH32) ***Available August***
- **NEW** CON882S, CON884S, CON886S, Heavy Duty Concealed Overhead Door Stop US32D (refer to DH32) ***Available August***
- **NEW** CON884H, Heavy Duty Concealed Overhead Door Holder with Hold-Open US32D (refer to DH32) ***Available August***
- **NEW** HD662S, HD664S, HD666S, Heavy Duty Surface Overhead Door Stop US32D (refer to DH32) ***Available August***
- **NEW** HD664H, Heavy Duty Surface Overhead Door Holder with Hold-Open US32D (refer to DH32) ***Available August***
- **NEW** AGH-69, AGH-48, AGH-U3, AGR-71, All Gender Restroom Signs BLACK, BLUE (refer to DH33) ***AGR-71 Available August***
- **NEW** SCS801666, SCS801682, SDH Series Top Mount Single Wheel with Soft Close System US10B, BLACK (refer to DH38)
- **NEW** SCS803566, SCS803582, SDH Series Surface Mount Strap Wheel with Soft Close System US10B, BLACK (refer to DH38)
- **NEW** BDH3066, BDH3080, BDH Series Surface Mount Strap Wheel US15 (refer to DH40)
- **NEW** BDH3166, BDH3180, BDH Series Top Mount Single Wheel US15 (refer to DH40)
- **NEW** SCSBDH3066, SCSBDH3080, BDH Series Surface Mount Strap Wheel with Soft Close System US15 (refer to DH40)

NEW PRODUCTS UPDATE

BUILDERS HARDWARE

- **NEW** SCSBDH3166, SCSBDH3180, BDH Series Top Mount Single Wheel with Soft Close System US15 (refer to DH40)
- **NEW** SDH and BDH Series Sliding Door Hardware Accessories (refer to DH41-DH46)

- **NEW PRICES**

PN20BK, PN20US3, 4" Diecast House Numbers and Letters (refer to DH1)
ASA478, Template ASA Strike (4 ⅞" x 3 ⅜" x 1 ¼") US10B, US26, US32D (refer to DH2)
DL402361, Door / Window Casement Security Latch Lock US3, US5, US10B, US15, US26, US26D (refer to DH2)
SBCF222, SBCF333, Window Casement Fasteners US3, US5, US10B, US15, US15A, US19, US26, US26D (refer to DH2)
ASA-FP, ASA Blank Filler Plate (refer to DH3)
DPSTRK1, Brass Dust Proof Strike US3, US10B, US26, US26D (refer to DH3)
LPG2, Latch Guard Protector (2 ⅞" x 11") USP, ALUM, DURO, GOLD (refer to DH3)
BARM3434, BARM3436, Stainless Steel Armor Plates US32D (refer to DH5)
PSPL3515, Push Plate (0.050" x 3 ½" x 15") US3, US26 (refer to DH5)
PULPL3515, Pull Plate (0.050" x 3 ½" x 15") US3 (refer to DH5)
PULPL4016, Pull Plate (0.050" x 4" x 16") US3, US4, US5, US10, US10B, US26 (refer to DH5)
PUL201, PUL202, PUL203, Solid Bar Round Pulls US3 (refer to DH7)
ULDK93, UL Listed Door Knocker with 160° Viewer US3, US5, US10B, US15, US26D (refer to DH8)
ULDV160, UL Listed 160° Door Viewer US3, US10A, US10B, US15, US19, US26, US26D (refer to DH9)
DAP77, Door Angle Protector US3, US4, US5, US10B, US26, US26D (refer to DH10)
DG22, Solid Brass Chain Door Guard US3, US5, US26 (refer to DH10)
SBDG00, Solid Brass Chain Door Guard with Angle Protector US3, US4, US10B, US26, US26D (refer to DH10)
PASPDL34, Heavy Duty Passage Sliding Door Lock US3, US5, US10B, US15, US15A, US26, US26D (refer to DH11)
PRIPDL21, Heavy Duty Privacy Sliding Door Lock US3, US5, US10B, US15, US15A, US26, US26D (refer to DH11)
14SDLR, Passage Sliding Door Lock with 2 ⅜" backset US10B, US15, US26, US26D (refer to DH12)
18SDLR, Privacy Sliding Door Lock with 2 ⅜" backset US10B, US15, US26, US26D (refer to DH12)
20SDLR, Privacy Sliding Door Lock with 2 ¾" backset US26D (refer to DH12)
30SDLR, Passage Sliding Door Lock with 2 ¾" backset US26D (refer to DH12)
SB873, 3" Brass Surface Bolt US3, US5, US10B, US15, US15A, US26 (refer to DH13)
SB874, 4" Brass Surface Bolt US3, US5, US10B, US15, US15A, US26 (refer to DH13)
SB876, 6" Brass Surface Bolt US3, US15, US26 (refer to DH13)
SB8712, 12" Brass Surface Bolt US3, US5, US10B, US15, US15A, US26 (refer to DH13)
EXTFB-1, Flip Style Mortise Flush Bolt US3, US5, US10B, US15, US15A, US26, US26D (refer to DH14)
FBG6, Solid Brass Single Route Flush Bolt US3, US5, US15, US15A, US26, US26D (refer to DH14)
ZDFB800, Diecast Base Single Route Flush Bolt US3, US5, US10B, US15, US26, US26D (refer to DH14)
FBROD-36, 36" Extended Rod for MF6341 (refer to DH15)
WF6341, UL Listed Solid Brass Lever Extension Flush Bolt for wood doors US3, US10B, US15, US26, US26D (refer to DH15)
ADAHB-4, ADA Heavy Duty Cast Handrail Bracket US3, US5, US10B, US15, US15A, US26, US26D (refer to DH20)
HB96, Diecast Handrail Bracket US3, US5, US10B, US15, US15A, US26, US26D (refer to DH20)
HDHB40, Heavy Duty Cast Aluminum Handrail Bracket US3, US5, US26 (refer to DH20)
CURB19, Solid Brass Curved Roller Stop US3, US4, US10B, US26D (refer to DH21)
CWS18, Commercial Grade Wall Door Stop US26D (refer to DH21)
FS89, 3" Flexible Door Stop US3, US5, US10B, US15, US15A, US26 (refer to DH22)
JRS34, 4" Diecast Jumbo Rigid Door Stop US3, US5, US10B, US15, US15A, US26 (refer to DH22)
DSHP18, High Profile Solid Brass Dome Stop US3, US4, US5, US10, US10B, US15, US15A, US26, US26D, US32D (refer to DH23)
DSLP4, Low Profile Solid Brass Dome Stop US3, US4, US5, US10, US10B, US15, US15A, US26, US26D, US32D (refer to DH23)
DSHD105, Heavy Duty Door Protector Hinge Pin Stop US3, US5, US10B, US15, US15A, US26, US26D (refer to DH26)
DSLD81, Light Duty Door Protector Hinge Pin Stop US3, US5, US10B, US15, US15A, US26, US26D (refer to DH26)
OVLCRH-20, Oval Closet Rod Holder US26 (refer to DH27)
BC97, Adjustable Ball Catch US3, US5, US10B, US15, US15A, US26, US26D (refer to DH28)
STRKBC97, Full Lip Strike Plate RC for BC97 and DIB1 US3, US5, US10B, US15, US15A, US26, US26D (refer to DH28)
RC88, Jumbo Roller Catch US3, US10B, ZINC (refer to DH28)
BULCAT11, Bullet Catch US3, US5, US10B, US15, US26 (refer to DH29)

NEW PRODUCTS UPDATE

BUILDERS HARDWARE

- **NEW PRICES**
  BK14, Bi-Fold Ball Knob US3, US5, US10B, US15, US15A, US26, US26D (refer to DH30)
  PLA2, Back Plate for BK14 US3, US5, US10B, US15, US15A, US26, US26D (refer to DH30)
  DIFP218, Drive-In Finger Pull without nails US3, US5, US10B, US15, US15A, US26, US26D (refer to DH30)
  CH28, Coat and Hat Hook US3, US5, US26 (refer to DH31)
  HI11, 4" x 4" Blue Insignia Handicap Logo (refer to DH34)
  BDH3066, BDH3080, BDH Series Surface Mount Strap Wheel BLACK (refer to DH40)
  BDH3166, BDH3180, BDH Series Top Mount Single Wheel BLACK (refer to DH40)
  SCSBDH3066, SCSBDH3080, BDH Series Surface Mount Strap Wheel with Soft Close System BLACK (refer to DH40)
  SCSBDH3166, SCSBDH3180, BDH Series Top Mount Single Wheel with Soft Close System BLACK (refer to DH40)

ELECTRONIC & ELECTRIFIED HARDWARE

- **NEW** NM300 Series Electrified Mortise Locks (refer to EE11)
- **NEW** SC400 Series Electrified Mortise Locks (refer to EE12)
- **NEW** DEKIT36 (for 36") and DEKIT48 (for 48"), Delayed Egress Option on 7700 Series Exit Devices (refer to EE14)
- **NEW** ESC7700 Electrified Escutcheon Exit Device Trims, all functions and lever designs US1 (refer to EE16)
  Available September / October
- **NEW "**RL" design: FS12RL, FS24RL, FSE12RL, FSE24RL (Heavy Duty Escutcheon) Exit Device Trims US32D (refer to EE16)
- **NEW** NESC9800 Electrified Escutcheon Exit Device Trims, all functions and lever designs US1 (refer to EE18)
  Available September / October
- **NEW** CRPS440B & CRPS480B Power Supplies rated at 4A @ 24V DC (refer to EE21)
- **NEW LOWER PRICE** on All Electrified Hinges (refer to EE23)
- **NEW** ELE4BB31 - 4 ½" x 4 ½" Electrified 4 Wires, 26 Gauge, Standard Weight 2-Ball Bearing Full Mortise US1 (refer to EE23)
- **NEW** ELE4BB5500 - 5" x 5" Electrified 4 Wires, 26 Gauge, Heavy Weight 4-Ball Bearing Full Mortise US10B (refer to EE23)
- **NEW** ELEPV010-LH (left hand) and ELEPV010-RH (right hand) 4 Wires, 26 Gauge,
  Electrified Intermediate Offset Pivot Hinge (refer to EE25)

MISCELLANEOUS ITEMS

- **NEW LOWER PRICE** Electrification **ADD-ON** charge for Genesys Series Cylindrical Locks (refer to L39 or EE13)
- **NEW PRICES** Electrified Exit Device Trims for 7700, 9800, & 2200 Series Exit Devices
  (refer to E4-E5, E9, E18-E19, E24, E40, EE16-EE19)
- **NEW** Anti-Microbial Coating for mortise locks, other locksets, exit devices, door pulls, push and pull plates.
  - part # **ANTB** for Mortise locks and select Locksets (refer to L17, L24, L38, L43, L45, L79)
  - part # **HOS-ANTB** for Hospital Latch Trim (refer to L31)
  - part # **ANTB-EXIT** for Exit Devices (refer to E1-E2, E9, E11, E13, E15-E16, E24, E26, E28, E30-E31, E47-E49)
  - part # **ANTB-TRIM** for Exit Device Trims (refer to E7, E10, E12, E14, E21, E25, E27, E29, E36, E36, E42, E47, E50)
  - part # **ANTB-PLATE** for Push / Pull Plates (refer to DH5-DH6)
  - part # **ANTB-DP** for Door Pulls (refer to DH7)

*****Must specify Anti-Microbial PART # with the selected item # as two separate line items when ordering.***
eg. CGN05 US26D with Anti-Microbial Coating, order: "CGN05 US26D" and "ANTB" as two line items.

Introduction to Cal-Royal Products, Inc.

CAL-ROYAL PRODUCTS, INC. was established in California in 1983. Since then, our management and staff have been dedicated to provide the best service and products to our customers. Cal-Royal currently has five warehouses nationally. Our corporate office and main facility is located in Commerce, California, with satellite warehouses in Arizona, Texas, Pennsylvania, and Georgia.

Cal-Royal is focused on providing "Innovative and Value Added" hardware products and accessories to the builders industry. Cal-Royal has continued to be the leader in import hardware. Our product offering is designed to comply with the Americans with Disabilities Act (ADA) and to encompass all levels of ANSI classification, Grades 1, 2 and 3 as well as UL requirements.

In keeping with our tradition of innovation, Cal-Royal is one of just three manufacturers providing the Clutch System (Genesys, Grade 1) for lever locks. Furthermore, we offer a complete line of mortise locks, exit devices, door closers, hinges and many other hardware and trim products.

Cal-Royal has provided hardware for many notable projects built or renovated in the past 37 years. The MGM Grand Hotel in Las Vegas, the Pentagon in Washington D.C. and several buildings of the Internal Revenue Service to name just a few. Additionally we have provided products for Hilton and Marriott Hotels, several Federal courthouses and many commercial buildings, hospitals and retail stores.

Cal-Royal's commitment is to deliver the highest quality, cost-effective service and value to our customers. Each member of our professional staff has been trained to provide quality construction, technical and management services to our customers. Please consider our company and team for your future hardware requirements.

Respectfully,

Cal-Royal Products, Inc.



CAL-ROYAL
PRODUCTS, INC. U.S.A.

CRPG SECURITIES USA

CAL-ROYAL PRODUCTS, INC. USA

To Whom It may Concern,

This is to verify that “Cal-Royal Products, Inc.” is a major supplier of door hardware. We are currently supplying door hardware to many national hotel chains. Many architectural firms in the U.S. and International market have approved our door hardware products. We assure you our products are of the highest quality. All our products meet or exceed all ANSI and UL specification for the U.S. market, and now includes a line of European style door hardware.

The following list is sample of the hotels and U.S. government agencies, which our products were approved and are still quite satisfied with our product line. These hotels and government facilities are located in both the international and domestic market.

Private, Government Organizations and Hotel List

Abu Dhabi Airport	UAE	OMHM Habitations Nicolet	Canada	Salle de Spectacle de St-Jérôme	Canada
Dubai Airport	UAE	Monte Carlo Hotel	Las Vegas, NV	Bureaux PSP Montréal	Canada
Four Seasons Hotel	Egypt	Circus Circus Hotel	Las Vegas, NV	Americas Best Value Inn & Suites	Flagstaff, AZ
JW Marriott & Marriott Hotels	Worldwide	MGM Hotel	Las Vegas, NV	The Westin Hotel	Phoenix, AZ
Sheraton Hotels	Worldwide	Sheraton Hotel	New Orleans, LA	Orchard Pointe Assisted Living Facility	Glendale, AZ
Westin Hotels	Worldwide	Oasis Hotel	Cancun, MX	Luke Air Force Base	Litchfield Park, AZ
Hilton & Double Tree Hotels	Worldwide	Comfort Inn Suites	Duluth, GA	29 Palms Military Housing	29 Palms, CA
Holiday Inn / Holiday Inn Exp	Worldwide	West Side Church	Lexington, KY	St. James Roman Catholic Church	Glendale, AZ
Comfort Inns	Worldwide	Comfort Inn Suites	South Bend, IN	Proxy 333 Apartment Homes	Phoenix, AZ
Red Roof Inns	Worldwide	Don Cesar Beach Resort	Florida	Wildlife World Zoo	Litchfield Park, AZ
Radison Hotels	Worldwide	Whitney Manor	Cheshire, CT	Basis Charter Schools	Arizona
Sun Suite & Affiliates	Worldwide	Sun Suites	Georgia	1044 Downing Street	Denver, Colorado
Embassy Suites	Worldwide	Spring Hill Suites	Ft. Lauderdale, FL	16th Street	Denver, Colorado
San Stefano Four Seasons Hotel	Egypt	Hawthorn Suites	Indianapolis, IN	28th and Blake	Denver, Colorado
Sofitel Pyramid Hotel	Egypt	First Assembly of God	Delphi, IN	Alameda Station	Denver, Colorado
Cairo Airport	Egypt	Resolute Child Development	Indianapolis, IN	Parkhill Village West 2	Denver, Colorado
Intercontinental Hotel	El Gouna, Egypt	Christ the Savior Church	Indianapolis, IN	Vela Meridian	Denver, Colorado
Kuwait Embassy	Cairo, Egypt	Far Best Foods	Indianapolis, IN	Six Flags Over Texas	Arlington, TX
American Embassy	Maadi, Egypt	Free Methodist Church	Murfreesboro, KY	Broadstone Farmers Market Apartments	Dallas, TX
McGuire (Air Force Base)	Wrightstown, NJ	Southport Christian Church	Southport, IN	The Alexan Apartment Communities	Dallas, TX
US Federal Court Office Building	Washington D.C.	Country Inn & Suites	Marion, IN	Cityline Apartments	Richardson, TX
IRS Office Buildings	U.S.A.	Valley Mills Christian	Owensboro, KY	Home2Suites	Texas
Dover Air Force Base	Dover, Delaware	First Lutheran Church	Louisville, KY	Home2Suites	Lake Charles, LA
International Trade Offices	Portsmouth, ME	Universal Towers	Orlando, FL	Home2Suites	Oklahoma City, OK
YMCA Offices	S. Portland, NH	Andy Mohr Ford Dealership	Plainfield, IN	Temecula Assisted Living Facilities	California
Pentagon Office Buildings	Washington D.C	Various Amusement Parks	Florida	Ocean Hills Assisted Living Facilities	California
Fort Carson	Colorado Springs, CO	Auction Broadcasting Offices	Indianapolis, IN	Our Lady of Perpetual Help	Indio, CA
Camp Lejeune	Camp Lejeune, NC	AMLI @ Riverbed Rehab Offices	Indianapolis, IN	Hudson Lights Retail and Apartments	Ft. Lee, NJ
Beals Dept. Stores	Florida	Howard Johnson	Albany, GA	Fort Dixon	New Jersey
Caribe Royal Convention Center	Orlando, FL	Olympia Park Hotel	Salt Lake City, UT	Hydro Québec Centre D’interprétation Beauharnois	Canada
The Pointe on Westshore	Tampa, FL	Keystone Senior Living	Douglasville, PA	Usine de filtration D’eau Potable Riverside Longueuil	Canada
US Customs Office Buildings	Tampa, FL	Sleep Inn	Middletown, NY	Palais de Justice Temporaire Rimouski	Canada
Cook Building Office Buildings	Bloomington, IN	Harrah’s Casino	Atlantic, NJ	Hydro-Québec Poste de Lorimier	Canada
Ohio State University	Columbus OH	Riverbend Condo’s	Newark, NJ	Réservoir de la Savane Longueuil	Canada
North State University	Denton, TX	Riverbend Multi-Family	New Jersey	Réaménagement Bureau Ministère de la Sécurité Publique Longueuil	Canada
Philadelphia School District	JFK Center	Core National Communities	Waterman, CA	Ville de Montréal, Centre de service Dickson	Canada
Clinique Médicale Urbaine	Montréal	Core National Communities	Mission Cove, CA	Carrefour de l’Estrie, Redéveloppement	Sherbrooke

We thank you for your interest in Cal-Royal Products, Inc. and we hope to serve you in the near future in all your hardware needs for the hotel and commercial buildings.

Cal-Royal Products, Inc.

September 2020

Re: Buy American Act / American Recovery and Reinvestment Act

To All Customers and potential customers:

We want to take this opportunity to discuss the Buy American Act and the American Recovery and Reinvestment Act of 2009 in connection with the purchase and use of Cal-Royal products.

Buy American Act:

The Buy American Act ("BA Act") specifies that the U.S. Government and certain other third parties which utilize federal funds for a project must give preferred status to goods that are manufactured in the U.S.A., however, there are several exemptions. Two of the listed exemptions, which apply to products supplied by Cal-Royal Products, Inc., are as follows:

1. The U.S. Trade Representatives have waived the requirements of the BA Act for products that are purchased from countries that are members of the World Trade Organization (WTO), and signatories of the Government Procurement Agreement ("GPA"). Taiwan and South Korea are members of the WTO and signatories to the GPA. Accordingly, products purchased by Cal-Royal from these two countries are exempt from the BA Act, and may be purchased for projects covered by the BA Act without penalty or violation.

Cal-Royal products that are acceptable for use on BA Act projects include:

LOCKSETS

- NM Series Grade 1 Mortise Locks (Taiwan)
- SC Series Grade 1 Mortise Locks (Taiwan)
- HOS-PP30 Series Grade 1 Hospital Push / Pull Latch (Taiwan)
- Genesys Grade 1 Cylindrical Leversets (Korea)
- Calypso Grade 1 Cylindrical Leversets (Taiwan)
- LRC Series Grade 1 Heavy Duty Cylindrical Lockset with Ligature Resistant Lever (Taiwan)
- Omega Grade 1 Cylindrical Locksets (Taiwan)
- Grand Series Grade 2 Tubular Leversets (Korea)
- Explorer Grade 2 Heavy Duty Cylindrical Leversets (Korea)
- Commander Grade 2 Heavy Duty Cylindrical Leversets (Korea)
- Tuscany Grade 2 Heavy Duty Cylindrical Leversets (Korea)
- Pioneer SL Grade 2 Cylindrical Leversets (Korea)
- Challenger Grade 2 Cylindrical Leversets (Korea)
- Barrington Grade 2 Cylindrical Locksets (Korea)
- HIL, JHIL, CIL Series Grade 2 Interconnected Locks (Korea)
- CRB800 Grade 1 Heavy Duty Deadbolts (Taiwan)
- T300 Grade 2 Heavy Duty Deadbolts (Taiwan)
- T220 Grade 2 Standard Duty Deadbolts (Korea)
- SQ300 Grade 2 Heavy Duty Square Deadbolts (Korea)
- IND90-G2 Grade 2 Commercial Indicator Deadbolts (Korea)
- Legacy Series Grade 3 Residential Levers (Taiwan)
- Clipper Series Grade 3 Residential Deadbolts (Taiwan)

DOOR CLOSERS

- KN900PBF Grade 1 Heavy Duty Door Closers (Korea)
- KCR441 & KCR441DA Grade 1 Heavy Duty Door Closers (Korea)
- 88 Series Grade 1 Concealed Overhead Door Closers (Taiwan)

ELECTRONIC LOCKSETS

- CR3000 Grade 1 Digital Keypad Door Locks (Taiwan)
- CR6000 Grade 1 Digital Touch Screen Door Locks (Korea)
- PL7100 Grade 1 Commercial Phone Lock BLE (Taiwan)
- CR9000 Grade 2 Digital Touch Screen Door Lock (Korea)
- ZWDB-10 Meets Grade 3 Standards Z-Wave Touch Screen Electronic Deadbolt (Taiwan)

HINGES (Taiwan)

- TABB31 4 ½" x 4 ½" Standard Weight, Two-Ball Bearings
- TABB545 5" x 4 ½" Standard Weight, Two-Ball Bearings
- TABB5200 4 ½" x 4 ½" Heavy Weight, Four Ball-Bearings

EXIT DEVICES

- 7700 Series Grade 1 Exit Devices (Taiwan)
- 9800 Series Grade 1 Exit Devices (Taiwan)
- 2200 Series Grade 1 Exit Devices (Taiwan)
- 4400 Series Grade 2 Exit Devices (Taiwan)
- T5000 Series Grade 2 Exit Devices (Taiwan)

CYLINDERS

- CRP HSK High Security Cylinders (Korea)
- CRP Combo Cylinders (Korea)

2. Section 10a of the Act provides that the U.S. Government may purchase foreign products where U.S. made products are not available in sufficient quantity and/or where a U.S. equivalent is sold at an unreasonable price. Executive Order 11051 issued on September 27, 1962 established that a U.S. made product is unreasonable in price when it sells for six percent (6%) or more than the foreign equivalent product. Cal-Royal products are competitively priced and in most cases offer greater than 6% savings over domestic products.

As most projects covered by the BA Act exceed the minimum monetary thresholds and all of the above Cal-Royal products satisfy one or both of the above exemptions to the BA Act, these products can be purchased for such projects covered by the BA Act.

2009 American Recovery and Reinvestment Act:

The American Recovery and Reinvestment Act (ARRA) includes a "Buy American" provision as well as an exemption to that provision for members of the WTO and signatories of the Government Procurement Agreement (GPA). See above list confirming that Cal Royal's products originate from WTO and GPA countries. Cal-Royal customers should also be aware that the ARRA has additional restrictions and should take steps to confirm the applicability of the above exemptions.

Cal-Royal is currently locating alternative suppliers in WTO / GPA countries for hinges to be used on projects covered by the American Recovery and Reinvestment Act or Buy American Act.

It is also worth noting that all of Cal-Royal's products meet and/or exceed every ANSI definition of quality or requirement for performance standards. We also have products that are Underwriters Laboratory (UL) rated and approved in their respective countries.

In short, we encourage our customers to bid on appropriate government-related jobs using Cal-Royal products. That being said, as this letter does not constitute legal advice, customers should verify for themselves the applicability of the BA Act and/or the ARRA and their related exemptions.

We thank you for your business and continued support.

Sincerely,

Cal-Royal Products, Inc.

LEED STATEMENT

CAL-ROYAL PRODUCTS, INC.

Post and Pre-Consumer Recycled Content Summary

	Post-Consumer Recycled Content*	Pre-Consumer Recycled Content**	TOTAL LEED Recycled Content Percentage
ALUMINUM DOOR CLOSERS			
CR801S, CR801, N900PBF, N900PBFDA, CR441 SERIES, 300 SERIES, 700 SERIES, S-430P	48%	0%	48%
EXIT DEVICES			
EXIT DEVICES	61%	0%	61%
TRIMS			
8000L Series	16.7%	24.7%	29.1%
8000K Series			28.7%
LOCKSETS			
NM Series			
Rose & Lever in Brass	10%	0%	10%
Escutcheon & Lever in Brass	5%	0%	5%
Rose & Lever in Stainless Steel	0%	0%	0%
Escutcheon & Lever in Stainless Steel	0%	0%	0%
SL Series	12.52%	4.5%	17.02%
XP Series	11.4%	3.5%	14.9%
SG Series	11.96%	4.0%	15.96%
ULT360 Series	25%	16%	28%
ULT362 Series	28%	15%	29%
BA Series	13%	17%	23%
Genesys Series	66%	0%	66%
Omega Series	66%	0%	66%
DOOR HARDWARE			
AUTOFLM-1	0%	5%	5%
AUTOFLW-22	0%	8%	8%

*Recycled content defined in accordance with industry standards.
**Pre-consumer recycled content refers to waste material that is immediately placed back into the production cycle. Waste materials generated by the production of these products are collected and shipped off site where it then reenters the recycle stream.

FOR MORE DETAILS ON THE **RECYCLED MATERIAL CONTENT**
Please visit our website at **www.cal-royal.com under CERTIFICATIONS AND UPDATES**

CAL-ROYAL PRODUCTS, INC.

and

DKS Steel & Door Frame Systems, Inc.

are

Florida and Texas Building Code Approved!







Florida Building Code #: FL13922 and FL13624
Texas Evaluation ID #: DR-472

To All Our Valued Customers:

Cal-Royal Products, Inc. and DKS Steel Door & Frame Systems, Inc. are pleased to announce component approval of our door hardware and hollow metal doors for exterior use within the state of Florida, Texas and participating states including Lousiana, Alabama, Mississippi, and Georgia.

Approved Cal-Royal Hardware types include:
- Grade 1 Genesys Series Cylindrical Locksets
- Grade 1 NM Series Mortise Locksets (NM is the new name for our M Series Mortise Locks)
- Grade 2 Pioneer Series Cylindrical Locksets
- Grade 2 T300 Series Deadbolts
- Grade 1 F7700 Rim Fire Exit Device
- Grade 1 F7700V Vertical Rod Fire Exit Device

Approved DKS Door types include:
- 1800 Series Steel Commercial Doors

FLORIDA: To view the complete information, please log on to **www.floridabuilding.org** and select **"Product Approval"** and enter **"FL13922"** for Cal-Royal Products, Inc., and **"FL13624"** for DKS Steel Door & Frame Systems, Inc.

TEXAS: To view the complete information, please log on to **www.tdi.texas.gov** and search for **"Windstorm Inspection Program"**, select "**Product Evaluation Index - Hinged Doors - Steel"** , and then look for **"Cal-Royal Products, Inc."** on the table, then click on the report number "**DR-472-PDF"**.

Note:
- within the state of Florida, Dade, and Broward counties require door, frame, and hardware system use.
- M Series refers to our "NM" Series Mortise Lock.

Thank you for your support. We look forward to serving you.

CAL-ROYAL PRODUCTS, INC. and DKS Steel & Door Frame Systems, Inc.

CAL-ROYAL PRODUCTS, INC. USA

CRPG SECURITIES USA

ARMED SERVICES ASSOCIATION
WASHINGTON, D.C.

RE: United States Military Purchasing Directory

DATE: 6/18/04

VENDOR NUMBER: 152908349

Director of Government Sales
Cal-Royal Products Inc
6605 Flotilla St.,
Los Angeles, CA 90040

Dear Director of Government Sales:

Our records from the Defense Logistics Agency indicate that your company is currently registered in the Central Contracting Registry (CCR). Your registration qualifies you to do business with the Department of Defense (DoD), and makes you eligible to be listed in the United States Military Purchasing Directory.

The Directory is distributed to all purchasing offices throughout the DoD every fiscal year. Purchasing officers and DoD contracting personnel specifically use the Directory to locate vendors from whom they will buy goods and services .

Vendors registered with the CCR are eligible to be listed in the Directory, or place display ads, to further market themselves to military buyers. If you are interested in being listed in the Directory for the upcoming fiscal year, you can request information from our offices in Washington, D.C. by calling 1-800-981-3845 , Mon.-Fri., 9:00am-4:00pm, E.S.T.

The information will be faxed to you immediately.

Sincerely,

Michael Briggs

Michael J. Briggs
A.S.A. Vendor Relations Office

P.O. BOX 42186 WASHINGTON, D.C. 20015-0786 1-800-981-3845 FAX 1-800-981-3846

TERMS AND CONDITIONS FOR CAL-ROYAL PRODUCTS

CORPORATE OFFICE
CAL-ROYAL PRODUCTS INC.
6605 Flotilla Street, Commerce, California 90040-1614
☎ 323-888-6601 / 800-876-9258 🖷 323-888-6699 / 800-222-3316
✉ sales@cal-royal.com

SOUTHWEST DISTRIBUTION	MIDWEST DISTRIBUTION	GEORGIA WAREHOUSE
SOUTHWEST OPENING SOLUTIONS	**SSG TEXAS**	**BOWEN SALES INC.**
1725 W. Williams Drive	2020 Exchange Drive	1551 Fairground Road,
Phoenix, AZ 85027	Arlington, TX 7601	Madison, GA 30650
☎ 602-698-7779	☎ 817-275-3070	☎ 404-549-4533
✉ Info@SWOpeningSolutions.com	🖷 817-275-3068	🖷 404-592-1987
💻 www.SWOpeningSolutions.com	✉ gregshuck@ssg-texas.com	✉ Kelly@bowensalesinc.com
		💻 www.bowensalesinc.com
EASTERN DISTRIBUTION	423 Blueberry Street	**COLORADO WAREHOUSE**
TAB INDUSTRIES, LLC	Houston, TX 77018	**STEELE-BREZ & ASSOCIATES INC.**
2525 N 12 St.	☎ 817-275-3070	2650 W 2nd Ave,
Reading, Pennsylvania 19605	🖷 817-275-3068	Denver, CO 80219
☎ 610-921-0012	💻 www.ssg-texas.com	☎ 303-922-3692
🖷 610-921-0014		🖷 303-922-8873
✉ tbrizek@TABIndustries.com		✉ darlene@steele-brez.com
		💻 www.steele-brez.com

TERMS AND CONDITIONS OF SALE

ORDERING: All orders must be faxed or emailed to Cal-Royal products for confirmation before shipment. Email all orders to **orders@cal-royal.com**

TERMS: Net 30 days.

FREIGHT: Shipments are F.O.B. Commerce warehouse, for orders of $2000.00 or more, excluding Alaska and Hawaii ($2500.00 for Western Canada, $3500.00 for Eastern Canada, $3000.00 for Puerto Rico, and $1700.00 for Washington and Oregon) are shipped prepaid within the continental United States and Canada. Orders less than these amounts will be shipped freight prepaid and added to the invoice.

CHANGES, CANCELLATIONS OR SPECIAL ORDERS: Canceled orders are subject to 10% service charge. Changes or cancellations to an order must be in writing and may result in additional charges for labor and/or materials. Changes may result in a delay in the scheduled ship date. Additions to orders will be entered as separate stand-alone orders and must qualify for all terms of sale, including discounts on an individual basis. Changes or deletions resulting in an order size of less than our minimum will not be accepted. Orders for non-cataloged, special or nonstandard items may not be canceled. Factory orders may not be changed within 30 days of the scheduled ship date.

CREDIT APPROVAL: Acceptance of all orders is subject to approval of Cal-Royal Products, Inc. Trade references and banking information must accompany orders from new accounts.

FREIGHT OR SHORTAGE CLAIMS: Customer assumes all delivery risks of loss or damage. If cartons are lost or damaged, immediately contact delivering carrier to make claim. If assistance is needed from Cal-Royal Products, Inc. please contact our Claims Department. Shortage claims must be made within seven working days from receipt of shipment. Cal-Royal Products, Inc. is not responsible or liable for any loss or shortage on merchandise to third party shipping.

RETURN OF MERCHANDISE: Claims for shortages and/or incorrectly filled orders must be filed with Cal-Royal Products, Inc. within 10 days of receipt of material. Price adjustments must also be made in writing to Cal-Royal within 30 days from receipt of invoice. No returned goods will be accepted without written approval from Cal-Royal. Credit will be based on upon the written authorization by Cal-Royal. Such returns must be prominently marked with the return goods authorization number and shipped prepaid. Returns, if approved, will be subject to a minimum restocking charge of 20% (25% for Canada) for unopened cases of stock product and must be received in mint condition. Non stock materials are not returnable. Under no circumstances is Cal-Royal liable for incidental or consequential damages. Charge-backs will not be allowed. No cash refund given, exchange or replacement only.

STANDARD PACKAGING: We reserve the right to change order quantities to nearest standard package quantities. Broken boxes are subject to an additional 20% service charge.

ACCESSORIAL CHARGES: ***ACCESSORIAL CHARGES*** for shipments to construction sites / residential & lift gates will be billed @ ***$75.00 min*** for **PALLET SHIPMENTS**.

AUTHORITY OF TERMS AND CONDITIONS: The terms mentioned herein are the only ones Cal-Royal Products, Inc. will honor, and any exceptions must be approved and confirmed by an officer of Cal-Royal Products, Inc. Terms and Conditions of buyer's purchase orders will not be honored unless an agreement is reached in writing beforehand. Cal-Royal Products Inc. has the right to refuse credit to anyone, or has the right to reuse to fulfill any orders. No representations, arrangements or agreements not appearing on the order shall be binding to Cal-Royal Products, Inc.

PRICES: Are subject to change without notice. All errors and omissions subject to correction.

MINIMUM ORDER:

$50.00 net. Orders under $50.00 are subject to an $8.00 service charge. No exceptions.

MERCHANDISE WARRANTY

Goods are warranted against defects in manufacture for one year. The company makes no other warranty, and all implied warranties including any warranty of merchantability or fitness for a particular purpose are limited to the duration of the expressed warranty period as set forth above. Purchase order, invoice number or sales order number must br presented in order to claim any warranty or replacements.

The company's maximum liability hereunder is limited to the purchase price of the products in no event shall the company be liable for any consequential, indirect, incidental or special damages of any nature arising from the sale or use of this product, whether in contract, tort, strict liability or otherwise.

Products will not be accepted for repair or replacement under this warranty unless we have given prior authorization for their return. Upon receipt of products returned for repair or replacement we will determine whether products qualify for repair or replacement under this warranty; if they do not, we will notify our customer of estimated costs of repair or replacement involved and will obtain authorization prior to proceeding. We have no liability to pay any costs of repair performed by anyone other than us, unless in each instance we have given prior written approval of such repair in which case we will pay what we consider to be the reasonable cost thereof.

All materials and finishes meet ANSI /BHMA standards at time of shipment. We do not warrant finishes exposed to hostile environments, such defect has been caused by corrosion or ordinary wear and tear.

CAL-ROYAL LIFETIME LIMITED WARRANTY

The Cal-Royal Products listed below are warranted against defects in mechanical workmanship and 3 year finish warranty for the life of the opening into which they are installed. This warranty is valid only if the products are installed according to the manufacturers' explicit directions, are the correct application for the opening in question (i.e.: a grade 2 lock is not acceptable in a school or university application) and those products that require adjustment at installation are adjusted correctly. It is assumed that if either the door or frame components in the opening has been violated and therefore the Warranty of those Cal-Royal products in that opening would be null and void. It is also assumed by this Warranty that those products that require periodic adjustment or maintenance are receiving that attention through the life of the opening.

This warranty DOES NOT COVER:

1. Abuse or vandalism
2. Products used in an incorrect application
3. Scratches or normal wear in a products finish (Does not cover US10B / 613)
4. Products that have been improperly installed or adjusted
5. Any Product installed in a hostile environment causing premature corrosion, wear and tear
6. The cost incurred in removing and installing a replacement product. Upon return of defective product to Cal-Royal Products, Cal-Royal may repair or replace the product or refund the purchase price. Cal-Royal is not liable for incidental or consequential damages.

The products that are covered by the above Lifetime Limited Warranty are:

1. All commercial Grade Hinges.
2. Genesys, Calypso, LRC, Omega, NM, SC Series Grade 1 Locks – Mortise and Cylindrical Locksets.
3. Columbus, CIL, HIL, JHIL, Pioneer, Commander, Challenger, Explorer, and Barrington Grade 2 Locksets.
4. CRB800 Series Grade 1 & CB160, SQ300, T300, T400 Series Grade 2 Deadbolts.
5. 900, CR441, CR801 / CR801S, 300, 500, 700 Series Grade 1 Door Closers.
6. 6600, 7700, 9800, 2200 Series Grade 1 & 4400 Series Grade 2 Exit Devices.

Cal-Royal Locksets, Door Closers, Exit Devices and Door Hardware are designed to provide the highest standard of product quality and performance. To maintain a long-lasting finish great care should be taken. Constant use and exposure to elements and high traffic would require cleaning on a regular basis.

EXIT DEVICE TRIMS WARRANTY

LIMITED WARRANTY: Cal-Royal Products (CRP) warrants that its products are free from defects in workmanship and material under normal use and service.

1. All Cylindrical Trims (5 years)
2. Escutcheon Trims (3 years)
3. All 8000 Series Exit Trims (1 year)
4. All Electrified trims (1 year)

ELECTRIFIED HARDWARE WARRANTY (2 YEARS LIMITED WARRANTY)

LIMITED WARRANTY: Cal-Royal Products (CRP) warrants that its products are free from defects in workmanship and material under normal use and service. Since CRP does not control product usage, CRP makes no representation as to the degree of security conveyed by the use of any product. This warranty does not cover defects or damage which occur from improper maintenance, improper storage, improper installation, shipping and handling, ordinary wear and tear, misuse, abuse, accidents, unauthorized service, work done by others or consequential damages.

CRP will not pay for the cost of repair performed other than in accordance with this warranty. CRP can only perform authorized warranty work at the factory. CRP's only liability, in tort or contract, whether under this warranty or otherwise, is limited to providing repair or replacement of any product or component part which is proven to be defective as covered by the warranty, within three (3) years after delivery from CRP to the original purchaser. Written notice of a product or component part believed to be defective, as covered by this warranty, should be sent to Cal-Royal Products 6605 Flotilla St, Commerce, CA 90040.

Include Claimant's name, address, phone, and identification of the product, invoice number and date, and a brief description of the defect. Upon receipt of such notice, a CRP representative will contact claimants to where to ship such product or component part, with shipping charges prepaid for examination, and in the event such examination reveals a defect covered by this warranty, the product will be repaired or replaced. This warranty is in lieu of all other express warranties. To the extent permitted by law, all implied warranties are limited to the duration or this warranty.

CRP shall not be liable for any incident or consequential damages. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above may not apply to you. This warranty gives you specific legal rights, and you may have other rights, which vary, from state to state.

HEAVY DUTY KEYLESS DOOR LOCKS, DIGITAL KEYPAD LOCKSETS AND DEADLOCKS WARRANTY

1. CRCODE007, CRCODE101, CRCODE200 SERIES KEYLESS DOOR LOCKS
   Goods are warranted to be free from manufacturing defects in material and workmanship which carries a ONE YEAR Limited Warranty on Electronic Series Locks (CRCODE007) and a TWO YEAR Limited Warranty on Mechanical Series Locks (CRCODE101, CRCODE202, CRCODE203, CRCODE204) and its conditions, limits and policies.
2. CR3000, PL7100, RS2100, CR6000, CR9000 DIGITAL KEYPAD DOOR LOCK
   Goods are warranted against defects in manufacture for two (2) years after the date of manufacture. The company makes no other warranty, all implied warranties including any warranty of merchantability or fitness for a particular purpose are limited to the duration of the expressed warranty period as set forth above.
3. DB5000, DB9000, ZWDB-10 (Z-wave) DIGITAL KEYPAD DEADLOCK WARRANTY
   Goods are warranted against defects in manufacture for two (2) years after the date of manufacture for mechanical parts and one (1) year for electronic parts. The company makes no other warranty; all implied warranties including any warranty of merchantability or fitness for a particular purpose are limited to the duration of the expressed warranty period as set forth above.

The company's maximum liability hereunder is limited to the purchase price of the products in no event shall the company be liable for any consequential, indirect, incidental or special damages of any nature arising from the sale or use of the product, whether in contract, tort, strict liability or otherwise. Seller's warranty shall not be enlarged, diminished or affected by no obligation or liability shall arise out of Seller's rendering of technical advice or services in connection with Buyer's order of the goods furnished hereunder.

This warranty DOES NOT COVER:

1. Abuse or vandalism
2. Products used in a wrong application
3. Scratches or normal wear in a products finish (Does not cover US10B/613)
4. Products that have been improperly installed or adjusted
5. Any products installed in a hostile environment causing premature corrosion, wear and tear
6. The cost incurred in removing and installing a replacement product. Upon return of defective product to CAL-ROYAL Products, CAL-ROYAL may repair or replace the product or refund the purchase price. CAL-ROYAL is not liable for incidental or consequential damages.

TERMS AND CONDITIONS FOR LITES AND LOUVERS

1. Limited Warranty: Lites and Louver products shall be warranted for a period of five years from the date of the first delivery provided by CAL-ROYAL. The warranty is based upon the product being used with the application of the hardware for which it was designed and that it meets the standard industry specifications provided by CAL-ROYAL, if any, so as long the products are installed and used as followed, and are free from defects in material and workmanship. This warranty is limited to the replacement or repair at the option of CAL-ROYAL.
2. CAL-ROYAL will not be subjected to any other or future liability and claims for defects and damages occurred from improper installation, adjustment, lack of maintenance, accidents, improper shipping and handling, use with unauthorized parts, or inappropriate product specifications. CAL-ROYAL will not be responsible for the costs of replacement or repair performed other than in accordance to this warranty. No other warranty indicated or implied is valid.
3. The Purchaser agrees to pay CAL-ROYAL all sums properly invoiced to Purchaser for the products that are absolute and unconditional. Payments that are due by the Purchaser shall not be withheld, or delayed in any under circumstances.
4. Claims: Any claim submitted by the Purchaser with reference to the products shall be considered waived by the Purchaser unless submitted in writing in accordance to this paragraph. Upon receipt of the products, the Purchaser shall inspect it immediately, prior to any installation or use of such products. Any products that are subject to claim for defects or shortages, the Purchaser shall provide a written notice to CAL-ROYAL within fourteen days after the Purchaser's receipt of shipment. Otherwise, the products shall be deemed finally accepted and inspected by the Purchaser.
5. Additional Terms: Acceptance of the products shall be limited to the terms and conditions that are stated herein. Any terms and conditions included in the Purchaser's purchase order or acceptance that are in addition to, or are in conflict with, the terms and conditions stated herein shall not become a part of the agreement between the Purchaser and CAL-ROYAL unless approved and confirmed by an authorized officer of CAL-ROYAL.
6. Glazing products, and Glass replacements are not included in this warranty.

TERMS AND CONDITIONS FOR SLIDING DOOR HARDWARE

Limited Warranty: SDH and BDH Series, Sliding Door Hardware products shall be warranted for a period of five years from the date of the first delivery provided by CAL-ROYAL. The warranty is based upon the product being used with the application of the hardware for which it was designed and that it meets the standard industry specifications provided by CAL-ROYAL, if any, so as long the products are installed and used as followed, and are free from defects in material and workmanship. This warranty is limited to the replacement or repair at the option of CAL-ROYAL.

FINISH MAINTENANCE AND CARE

CAL-ROYAL RECOMMENDS THAT THE UNIT AND ITS FUNCTIONS BE TESTED REGULARLY

Despite excessive testing, and due to but not limited to, any or all of the following; electrical or communications disruption, criminal tampering, it is possible for the unit to fail to perform as expected. CAL-ROYAL does not represent that the product may not be compromised or circumvented; or the product will prevent any property loss, personal injury, robbery, fire or otherwise; nor the product will in all circumstances provide adequate warning or protection. A properly installed and maintained locking device may only reduce the risk of burglary, robbery, fire or otherwise, but this is not an assurance that these events will not occur. Seller shall have no liability for any loss, property damage, personal injury based on a claim that the unit/product failed to give warning. It is therefore the obligation of the installer to advice or inform the consumer to take any or all precautions for his or her safety including, but not limited to, fleeing the premises and calling the proper authorities in order to mitigate the possibilities of harm, injury and/or damage.

CAL-ROYAL is not liable of either the property or safety of the user's family, employees, and limits its liability for any loss or damage including incidental or consequential to CAL-ROYAL's original selling price of the product regardless of the cause of such loss or damage.

Products will not be accepted for repair or replacement under this warranty unless we have given prior authorization for their return. Upon receipt of products returned for repair or replacement, we will determine whether products qualify for repair or replacement under this warranty; if they do not, we will notify the customer of estimated cost of repair or replacement involved and will obtain authorization prior to proceeding. We have no liability to pay any cost of repair performed by anyone other than us, unless in each instance we have given prior written approval of such repair in which case we will pay what we consider to be reasonable cost thereof.

In the event of a defective product, contact the security professional who installed and maintains your security system. In order to abide by this warranty, the defective product must be returned by the security professional, shipping costs prepaid and insured to CAL-ROYAL. After replacement or repair of the product, CAL-ROYAL assumes the cost of returning products under warranty. CAL-ROYAL shall have no obligation under this warranty, or otherwise, if the product has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subject to accident, nuisance, flood, fire or acts of nature. CAL-ROYAL will not be responsible for any dismantling, reassembly or re-installation charges.

All materials and finishes meet ANSI / BHMA standards at time of shipment. We do not warrant fixes exposed to hostile environments, such defect has been caused by corrosion or ordinary wear and tear.

This warranty and remedies set forth above are exclusive and in lieu of all others, oral or written, expressed or implied. No dealer, distributor, agent or employee is authorized to make any modification or addition to this warranty.

Some states do not allow the exclusion or limitation of implied warranties or limitation of liability for incidental or consequential damages, so the above limitation or exclusion may not apply to you.

FINISH CARE

Finishes on all products are produced to the highest quality standards to ensure they stay in perfect order year after year. However, some finishes can deteriorate if they are exposed to corrosive vapors, coastal air, salt spray or high humidity. Brass finishes are susceptible to tarnishing if they come in contact with air, moisture or wet paint, particularly in exterior locations. To overcome this, it is wise to coat all external brass finishes with a non-abrasive furniture or car wax immediately after installation, and to remove all locks before painting doors. Regular wiping with a soft cloth, occasional polishing with a non-abrasive furniture or car wax and take care not to scratch the protective finish on brass fittings will also prevent tarnishing.

- US3 (Polished Brass), US4 (Satin Brass), US5 (Antique Brass), US10 (Satin Bronze), US10A (Antique Bronze), US15 (Satin Nickel), US15A (Satin Nickel Oxidized), ALUMINUM, DURO, GOLD lacquered or clear-coated finishes can simply be cleaned by wiping with a clean soft damp (not wet) cloth. A mild soap may be lightly used if very dirty. Particular care should be taken to avoid using lacquer thinners, caustic soaps, abrasive cleaners or polishes as these could damage the coating and result in tarnishing. Initial care for finishes requires only periodic cleaning with mild non-abrasive soap and light buffing with a soft cloth.
- PVD (Physical Vapor Deposition) is a technologically advanced finish coating that provides the most surface protection against environmental elements and everyday wear and tear. PVD matches clear-coated finishes in appearance, yet surpasses them in durability. PVD finishes protect against corrosion, tarnish, wear, discoloring

and peeling for the lifetime of the part to which it has been applied. This kind of finish can be maintained by wiping with a clean soft damp cloth.

- US10B (Oil Rubbed Bronze) finishes can be wiped with a small amount of vegetable or mineral oil on a soft cloth. Excessive oil may cause residue to come off on contact with hands or clothing materials and would even attract dusts that would eventually become grime. Household detergents and mild abrasive powder may be used to restore the high metal color without seriously affecting the original compound of the metal. Then rub with a paste of wax.
- US26 (Bright Chrome), US26D (Satin Chrome), US32 (Stainless Steel) and US32D (Satin Stainless Steel) can be maintained by wiping with a clean soft damp cloth. A high-grade chrome polish may be used according to directions to clean and restore the original shine and satin finish.
    - Depending on the environment where the product is used, blemishes can appear on stainless steel products to help prevent this occurring, clean once a month. Blemishes on satin stainless steel may be removed by rubbing with a suitable stainless cleaner/polish wadding polish. Ensure rubbing occurs in the same direction as to the grain itself.

MAINTENANCE

Cal-Royal Locksets, Exit Devices and Door Closers were designed and manufactured to be maintenance-free under normal operating conditions and environments. Exposure to extremely heavy traffic and/or particularly dusty and dirty environmental conditions, however, may eventually cause unsatisfactory operation due to slow-moving parts or sticking cylinders. In this case, it may be necessary to clean and re-lubricate the lockset to maintain optimum performance.

Locksets

- To clean the lockset mechanism, use a non-corrosive substance or a penetrating or solvent type lubricant to loosen sticking components, then lubricate with lithium grease, silicone or Teflon based lubricant
- Do not use lubricant in cylinder (oil or aerosol type)

Cylinders

- When key becomes “sticky” in cylinder, you may sprinkle a small amount of graphite onto the key and then insert the key inside cylinder
- To free sticking or jammed cylinders, lubricate with graphite or a non-oily lubricant (such as Lock-EZE)
- Do not use petroleum-based lubricants in the cylinder keyway. WD-40 or oil will collect dirt over time, and a liquid might even freeze in the lock if weather is cold enough. Graphite is the common choice, the powdered version of molybdenum disulfide would work as well
- Do not use lubricant in cylinder (oil or aerosol type)

STAINLESS STEEL - CARE & MAINTENANCE GUIDE

Stainless steel is a high class material which guarantees longevity and minimal wear. However, stainless steel does not mean “stain” free. It can weather a lot of corrosive environment, but will inevitably succumb to some form of corrosion, including patch rusts.

The main difference between a stainless steel and carbon steel is the amount of chromium present. Carbon steel rusts immediately when exposed to air and moisture. It may take longer for stainless steel to corrode, but it will definitely do if not properly maintained.

We recommend cleaning with available commercial cleansing agents. Avoid using steel wool, steel brushes or similar accessories when cleaning as these harm the protective surface and extraneous rust may arise from the abrasion.

Some commercial products are also available that provides a non-stick protective coating that seals the surface, allowing for easier cleaning and maintenance like:

- EnduroShield Stainless Steel Coating
- Sprayon Stainless Steel Protective Coating
- ProtectaClear, by Everbrite

NOTE: Cal-Royal does not sell these products.

ARCHITECTURAL FINISH GUIDE

ITEM NO: FINCAP

INCLUDES 8 PIECES FINISHED CAPS

$13.50 EACH LIST





US3/605-632
POLISHED BRASS



US5/609-638
ANTIQUE BRASS



US10B/613-640
ANTIQUE BRONZE OILED



US11P
VENETIAN BRONZE



US15/619-646
SATIN NICKEL



US32D/630
SATIN STAINLESS STEEL



US26D/626-652
SATIN CHROME



US26/625-651
POLISHED CHROME

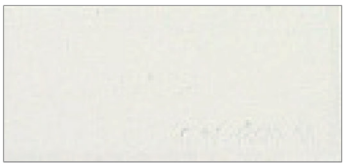
OTHER FINISHES (not included in FINCAP)



US4/606-633
SATIN BRASS



US10A/614-641
ANTIQUE BRONZE LACQUERED



ELECTRO STATIC
POWDER COATED WHITE



US15A/620-647
SATIN NICKEL OXIDIZED



US10/612-639
SATIN BRONZE



USP/600
PRIME COAT



US14B
BRIGHT BLACK NICKEL



US17A/621-648
SATIN BLACK NICKEL

INDEX TO US FINISHES

		B.H.M.A. FINISH STANDARDS BASE MATERIAL		
US	**DESCRIPTION**	**Steel**	**300 Series Stainless Steel**	**Brass / Bronze**
US1B	Bright Japanned	601	N/A	N/A
US1DM	Dead black-bright brass bearings and tips	N/A	N/A	N/A
US2C	Zinc plated, commercial	602	N/A	N/A
US2CD	Zinc plated, satin	603	N/A	N/A
US2G	Zinc plated, gov, spec.	603	N/A	N/A
US2H	Hot dipped galvanized	N/A	N/A	N/A
US3	Bright brass	632	724	605
US4	Satin brass	633	731	606
US5	Satin brass, oxidized	638	N/A	609
US7	Bright brass, nickel oxidized and highlighted	636	N/A	610
US9	Bright bronze	637	737	611
US9A	Bright bronze, no lacquer	N/A	N/A	N/A
US10	Satin bronze	639	740	612
US10A	Antique bronze lacquered	641	N/A	614
US10B	Antique bronze, oiled	640	743	613
US10BE	Dark Satin Bronze, Equivalent	N/A	N/A	613E
US11P	Venetian bronze	N/A	N/A	N/A
US14	Bright nickel	645	746	618
US14A	Bright nickel, oxidized and highlighted	N/A	N/A	N/A
US14B	Bright black nickel	N/A	N/A	N/A
US15	Satin nickel	646	749	619
US15A	Satin, nickel, nickel oxidized and highlighted	647	N/A	620
US17A	Black nickel dull	648	N/A	621
US1 / US19	Flat Black Coated	631	N/A	622
US20	Statuary bronze, light	649	N/A	623
US20A	Statuary bronze, dark	650	N/A	624
US26	Bright chromium plated	651	N/A	625
US26D	Satin chromium plated	652	N/A	626
US27	Satin aluminum, clear coated	N/A	N/A	N/A
US28	Satin aluminum, clear anodized	N/A	N/A	N/A
US32	Stainless steel metal, bright	N/A	629	N/A
US32D	Stainless steel metal, satin	N/A	630	N/A
313AN	Dark Bronze, Anodized	N/A	N/A	N/A
OC	Antique copper	N/A	N/A	N/A
USP	Prime coat, grey	600	N/A	600
GY	Grey enamel	N/A	N/A	N/A
LS	“Luma Sheen” (R)	689	N/A	689
L1	“Luma Color” (R) black	693	N/A	693
L2	“Luma Color” (R) dark bronze	695	N/A	695
L3	“Luma Color” medium bronze	694	N/A	694
ALUM	Aluminum Painted	689	N/A	689
DURO	Dark Bronze Painted	695	N/A	695
GOLD	Gold Painted	706	N/A	706

DISPLAY BOARDS AND MOUNTS

Door hardware display board featuring Cal-Royal's best seller items.
Includes CRP Tri-Pocket Brochure. Ideal for use in Architectural Showrooms.

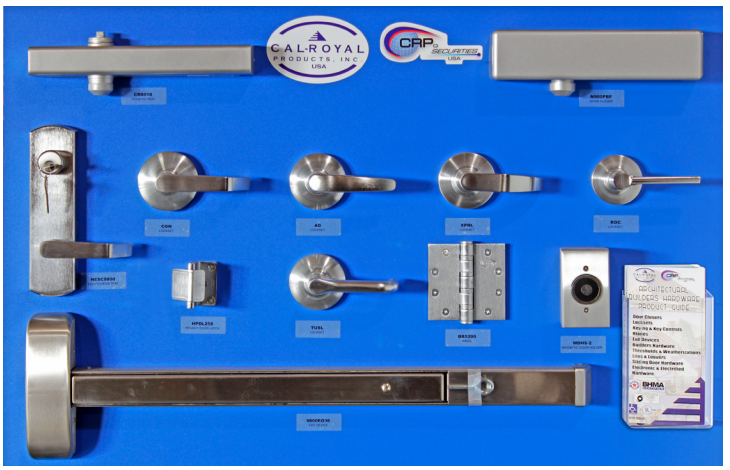


DSP-BOARD-77

INCLUDES ITEMS: 7700EO36 Exit Device, N900PBF and CR441 Door Closers, Grade 1 and Grade 2 Levers, BB31 Hinge, MDHS-2, HPDL258, NESC7700, CRP TRI-POCKET

BOARD SIZE: 42" x 28"

$560.00 *each list*



DSP-BOARD-98

INCLUDES ITEMS: 9800EO36 Exit Device, N900PBF and CR801S Door Closers, Grade 1 and Grade 2 Levers, BB5200 Hinge, MDHS-2, HPDL258, NESC7700, CRP TRI-POCKET

BOARD SIZE: 42" x 28"

$560.00 *each list*



DSP-BOARD-RES

ITEMS INCLUDED: Grade 3 Residential Levers and CRP TRI-POCKET

BOARD SIZE: 42" x 28"

$335.00 *each list*

DISPLAY BOARDS AND MOUNTS

Door hardware display board featuring Cal-Royal's best seller items.
Ideal for use in Architectural Showrooms.



BDH-DSP-BOARD

Black Barn Door Hardware Display Board

BOARD SIZE: 24" x 13 5/8"

$245.00 *each list*



SDH-DSP-BOARD

Stainless Steel Sliding Door Hardware Display Board

BOARD SIZE: 24" x 13 5/8"

$335.00 *each list*



DSP-3D51



DSP-3D62

DSP-3D51

5 1/8" x 1 3/16" 3D Invisible Hinge mounted in US4 and US15 finish

BOARD SIZE: 15" x 6" x 1 3/4"

$225.00 *each list*

DSP-3D62

6 5/8" x 1 3/16" 3D Invisible Hinge mounted in US4 and US15 finish

BOARD SIZE: 17 1/2" x 6" x 1 3/4"

$225.00 *each list*

CAL-ROYAL IS GOING GREEN!

To: Cal-Royal Customers

In our continuing effort to better serve you, our valued customers, we are pleased to announce the implementation of order status and shipping information via email.

You can now receive the following information by email:

- Purchase Order Confirmations
- Tracking Numbers
- Product Specials
- New Product Updates
- Sales Orders
- RMA's
- Invoices
- Monthly Statements

Please print your contact names and their email addresses, and choose which documents you want to receive using the form below.

ACCOUNT#	
COMPANY NAME	
TEL . NO.	

CONTACT NAME	EMAIL ADDRESS	UPS	SALES ORDER	RMA	INVOICE	AR STATEMENT

FAX to 1-800-222-3316 or 1-323-888-6699
or EMAIL to customers@cal-royal.com

CAL-ROYAL PRODUCTS, INC.

6605 FLOTILLA STREET, CITY OF COMMERCE, CA 90040
TEL: (323) 888-6601 ♦ FAX: (323) 888-6699
(800) 876-9258 ♦ (800) 222-3316

CREDIT APPLICATION

DATE:_____

Company Name _____

BILLING ADDRESS _____

CITY: _____ STATE: _____ ZIP: _____

Shipping Address _____

CITY: _____ STATE: _____ ZIP: _____

This is a ❒ Commercial ❒Residential address

PHONE: _____ FAX: _____

Type of Business:_____ Years at present location: _____

Type of Organization ❒Private Corporation ❒Partnership ❒Public Corporation ❒Individual ❒Other _____

Email Address _____

_____

_____

Principals

NAME	POSITION	HOME ADDRESS	PHONE #

Bank Reference

Bank: _____ Account # _____

Address: _____ Phone # _____

Trade References (Minimum of 3 With fax #)

NAME	ADDRESS	PHONE #	FAX #

PERSONAL GUARANTEE

In consideration for the credit extended, the undersigned conctracts and guarantees to the faithful payment, when due of all accounts of the company seeking credit for 5 years from the date of this application. The undersigned guarantor expressly waives all notice of acceptance of this guarantee, notice of extension of credit, presentment of demand for payment and any notice of default by the company seeking credit and all other notices the guarantor might be entitled to. Revocation of the guarantee shall be in writing and delivered by certified mail.

Credit Limit Requested

NEED MONTHLY STATEMENT EMAILED TO YOU? ❒YES (e-mail address: _____) ❒NO

In making this application for credit, the customer agrees to pay all invoices within 30 days from date of invoice and to pay a service charge of 1.5% per month, which is an annual percentage rate of 18% on all overdue balances. In the event a suit is necessary to collect any amount, the customer agrees the non-prevailing part will reimburse prevailing party for reasonable attorney fees and costs including attorneys fees for appeal.

Signature ►►► _____ **Title:** _____ **Date:** _____

◆◆◆ OFFICE USE ONLY ◆◆◆

Credit limit $		Account #
Date approved:		CR#
Signature:		Discount:
Reps Signature		Date

CAL-ROYAL PRODUCTS, INC. USA

RMA#_____
MUST BE ON ALL PACKAGES BEING RETURNED. SO WE CAN CREDIT YOUR ACCOUNT ACCORDINGLY.

RETURN MERCHANDISE REQUEST FORM

1. Please complete the information requested below, so we can issue your RMA#.
2. All information must be completed **(invoice# or your PO# important to fill out)** or requests for credits and/or returns will not be processed. Incomplete requests will not be processed.
3. When completed please fax back attention customer service to fax you back with RMA #. All returns are subject to restocking fee/re-box fee based upon condition of the material. Active items will be credited in full
4. Upon inspection. The RMA# provided is valid for 30 days only. If material has not been returned within the 30 days period, the RMA will then be void and payment is due.
5. Return products can only be returned within 90 days of invoiced date. No exceptions.

All boxes must have a copy of this form inside each box and be marked with RMA# issued.

COMPANY NAME: _____ **ACCT#** _____

CONTACT: _____ **DATE:** _____

☎ PHONE#: _____ **🖷 FAX#:** _____

ORDER #	PO#	INVOICE#	ITEM#	QTY	REASON FOR RETURN	OFFICE USE ONLY FOR APPROVAL

ACTION REQUIRED

- ☐ **RETURN FOR CREDIT**
- ☐ **REPLACE**
- ☐ **OTHER**_____

COMMENTS: _____

PLEASE FAX RMA FORM TO CONFIRM PROCESSING

CUSTOMER SIGNATURE: _____ DATE: _____

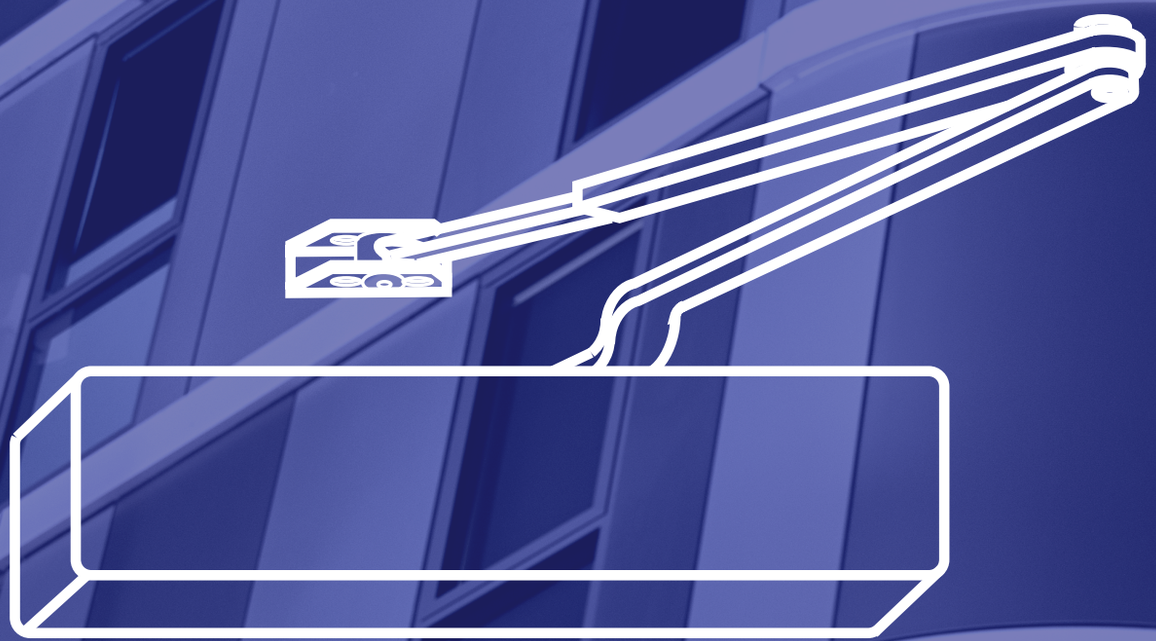
DATE FAXED: _____

CAL-ROYAL PRODUCTS, INC.
6605 FLOTILLA STREET CITY OF COMMERCE, CA 90040
TEL: 323-888-6601 FAX: 323-888-6699
EMAIL: orders@cal-royal.com

CAL-ROYAL PRODUCTS, INC. USA

CRP SECURITIES USA

DOOR CLOSERS



CAL-ROYAL
PRODUCTS, INC. U.S.A.

CRP SECURITIES USA

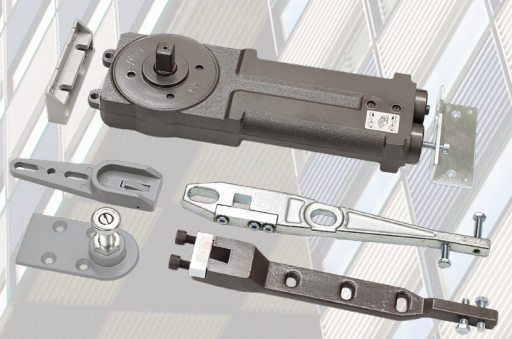
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

LIFETIME WARRANTY

BHMA CERTIFIED
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DOOR CLOSERS







CAL-ROYAL PRODUCTS, INC.
6605 Flotilla St., Commerce,CA 90040 U.S.A.
Tel: (323) 888-6601 Fax: (323) 888-6699
Website: www.cal-royal.com Email:sales@cal-royal.com

TABLE OF CONTENTS

I. CAL-ROYAL DOOR CLOSERS PRODUCT COMPARISON 1
II. REFERENCE & APPLICATION 2
III. 900 SERIES 3
ACCESSORIES 9
OPTIONAL INSTALLATION
Parallel Arm (Push Side) 6
Regular Arm (Pull Side) 5
Top Jamb (Push Side) 5
RHDSA-SS Arm (Regular & Top Jamb) 7
RHDSTP Arm (Regular & Top Jamb) 8
MOUNTING INFORMATION
Parallel Arm (Push Side) 5
Regular Arm (Pull Side) 4
Top Jamb (Push Side) 4
IV. CR441 SERIES 10
ACCESSORIES 14-17
OPTIONAL INSTALLATION
Parallel Arm (Push Side) 13
Regular Arm (Pull Side) 12
Top Jamb (Push Side) 12
MOUNTING INFORMATION
Parallel Arm (Push Side) 12
Regular Arm (Pull Side) 11
Top Jamb (Push Side) 11
IV. CR801 / CR801S SERIES 18
ACCESSORIES 24
OPTIONAL INSTALLATION
Parallel Arm (Push Side) 21
Regular Arm (Pull Side) 20
Top Jamb (Push Side) 20
RHDSA-SS Arm (Regular & Top Jamb) 22
RHDSTP Arm (Regular & Top Jamb) 23
MOUNTING INFORMATION
Parallel Arm (Push Side) 20
Regular Arm (Pull Side) 19
Top Jamb (Push Side) 19
V. 300 SERIES 25
ACCESSORIES 30
OPTIONAL INSTALLATION
Parallel Arm (Push Side) 30
Regular Arm (Pull Side) 30
Top Jamb (Push Side) 30
RHDSA-SS Arm (Regular & Top Jamb) 28
RHDSTP Arm (Regular & Top Jamb) 29
MOUNTING INFORMATION
Parallel Arm (Push Side) 27
Regular Arm (Pull Side) 26
Top Jamb (Push Side) 26
VI. 500 SERIES 31
ACCESSORIES 36
OPTIONAL INSTALLATION
Parallel Arm (Push Side) 36
Regular Arm (Pull Side) 36
Top Jamb (Push Side) 36
RHDSA-SS Arm (Regular & Top Jamb) 34
RHDSTP Arm (Regular & Top Jamb) 35
MOUNTING INFORMATION
Parallel Arm (Push Side) 33
Regular Arm (Pull Side) 32
Top Jamb (Push Side) 32
VII. 700 SERIES 37
ACCESSORIES 40
OPTIONAL INSTALLATION
Parallel Arm (Push Side) 40
Regular Arm (Pull Side) 40
Top Jamb (Push Side) 40
MOUNTING INFORMATION
Parallel Arm (Push Side) 39
Regular Arm (Pull Side) 38
Top Jamb (Push Side) 38
VIII. 400 SERIES 41
ACCESSORIES 44
OPTIONAL INSTALLATION
Parallel Arm (Push Side) 44
Regular Arm (Pull Side) 44
Top Jamb (Push Side) 44
MOUNTING INFORMATION
Parallel Arm (Push Side) 43
Regular Arm (Pull Side) 42
Top Jamb (Push Side) 42
VIII. 88 SERIES CONCEALED OVERHEAD DOOR CLOSER 45-46
ACCESSORIES 48
OVERVIEW INSTALLATION (TOP & BOTTOM) 47
MOUNTING INFORMATION
Exploded View 49
Arm Installation for Center Hung Doors 50
Arm Installation for Offset Hung Doors 51
REFERENCE COMPARISON CHART 52
IX. DFG888 CONCEALED GLASS FLOOR DOOR CLOSER
Floor Closer & Top Patch 53
Optional Pivots 53
X. 8600 AUTOMATIC "LOW ENERGY" SWING DOOR OPERATOR 54
FEATURES 55
APPLICATION 57
ACCESSORIES 58-59

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3 HOUR FIRE RATED
UL10C, UBC7-2-1997

MEETS
The Buy American Act
(SPECIFY **MADE IN KOREA** WHEN ORDERING)

LIFETIME WARRANTY

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900 Series


CR441 Series


CR801 Series


CR801S Series


300 Series


500 Series


700 Series


400 Series

CAL-ROYAL DOOR CLOSERS PRODUCT COMPARISON

MODEL	GRADE	SIZE	DOOR WEIGHTS (LBS)	FULL COVER	BARRIER FREE	DELAYED ACTION	BACK CHECK	ARM						WARRANTY	MOUNTING		
								HOLD OPEN	REGULAR	PARALLEL	SUPER RIGID	TRACK	TRACK (HOLD-OPEN)		REGULAR ARM (PULL SIDE)	PARALLEL ARM (PUSH SIDE)	TOP JAMB (PUSH SIDE)
N900PBF	1	1-6	30 - 260	FULL STD	Y	n/a	STD	O	Y	O	O	O	O	LT	Y	Y	Y
N900PBFDA						STD											
CR441	1	1-6	30-260	FULL STD	Y	n/a	STD	O	Y	O	O	O	O	LT	Y	Y	Y
CR441 / TNDM			260-520														
CR441DA			30-260			STD	n/a										
CR441DABC							STD										
CR441EHO						n/a		STD				STD	STD				
CR801S	1	1-6	30-260	SLIM STD	Y	n/a	STD	O	Y	O	O	O	O	LT	Y	Y	Y
CR801SDA						STD											
CR801				FULL STD		n/a											
CR801DA						STD											
300PCOV	1	3-6	85-260	FULL STD	Y	n/a	STD	O	Y	O	n/a	n/a	n/a	LT	Y	Y	Y
300PBFCOV		1-4	30-185														
300PBFDACOV						STD											
500PBF	1	1-5	30-260	O	Y	n/a	STD	O	Y	O	n/a	n/a	n/a	LT	Y	Y	Y
N500PBF				SLIM STD													
*720	1	2	55-100	O	n/a	n/a	n/a	O	Y	O	n/a	n/a	n/a	LT	Y	Y	Y
*730		3	88-143														
*730BC							STD										
*740		4	120-187				n/a										
*740BC							STD										
*750		5	176-265				n/a										
*750BC							STD										
*420-P	2	2	55-100	O	n/a	n/a	n/a	O	Y	O	n/a	n/a	n/a	5 Yrs	Y	Y	Y
*SM430-P		3	120-187														
*430-P			88-143														
*430-PBC							STD										
*440-P		4	120-187				-										

O - Optional | Y - Yes / Available | STD - Standard | LT - Lifetime | FULL - Full cover | SLIM - Slim cover | *Not BHMA Certified

REFERENCE & APPLICATION

CAL-ROYAL PRODUCTS, INC. U.S.A.

c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997

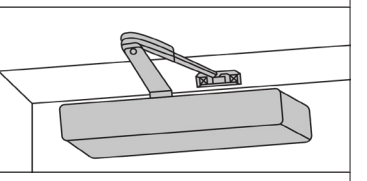
MEETS *The Buy American Act* (SPECIFY **MADE IN KOREA** WHEN ORDERING)

LIFETIME WARRANTY

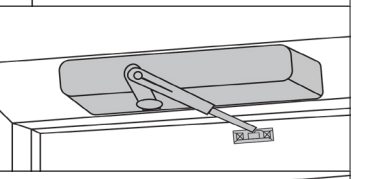
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APPLICATION

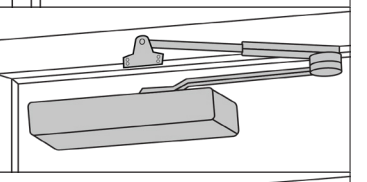
REGULAR ARM (PULL SIDE)
Regular arm mount is a pull side application with double lever arm. The closer mounts on the door and the arm mounts to the frame. It provides the most efficient operation for a door control and is commonly used on in-swing doors from corridors or other interior doors. Regular arm mount is a poor choice for exterior out-swinging doors as it would put the closer on the exterior of the building. The arm assembly projects directly out from the frame. That may be a concern for vandalism or aesthetics. Regular arm application can be used with non-hold open or hold open arms.



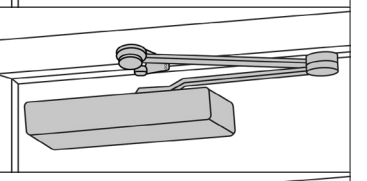
TOP JAMB (PUSH SIDE)
Top jamb mount is a push side double lever arm application that offers the best alternative to regular arm mount. The closed mounts to the frame and the arm mounts to the door. This application is commonly used on exterior out-swing doors. It is a poor application for in-swinging doors from a corridor as it places the closer arm in a visible application projecting into the corridor. The arm projects out similar to regular arm mount. Therefore, it can be a concern for vandalism or aesthetics. Top jamb application can be used with non-hold open arms.



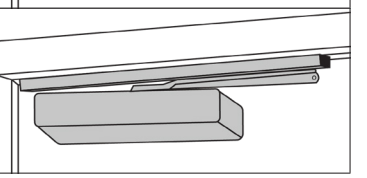
PARALLEL ARM (PUSH SIDE)
Parallel arm mount is a push side double lever arm application. The closer is installed on the push side of the door and the arm is mounted to a parallel arm adapter plate installed to the frame soffit. The arm is approximately parallel with the face of the door, eliminating the projection condition evident with regular arm and top jamb applications. Parallel arm is often preferred where aesthetics or vandalism are concerns. Parallel arm is less efficient than regular or top jamb mounts due to the geometry of the arm. Parallel arm application can be issued with non-hold open or hold open arms.



PARALLEL ARM (PUSH SIDE) WITH STOP ARM
The parallel stop arm mount is an enhanced version of the parallel arm application. It is similar to the parallel arm mount but incorporates a heavy duty rigid arm and soffit plate with limiting dead stop. The dead stop feature is field handed. The closer's back-check function should be adjusted to cushion the impact of the stop. The parallel stop arm is intended for use when an auxiliary stop cannot be utilized. The parallel stop arm is available in non-hold open and hold open applications.



TRACK ARM
The "Non-Handed" track arm mount incorporates a single forged main arm for installation in high use, high abuse door applications. It's low profile helps prevent damage.



CAL-ROYAL DOOR CLOSERS CROSS REFERENCES CHART

CAL-ROYAL	CORBIN RUSSWIN	DORMA	DOR-O-MATIC	GLOBAL	HAGER	LCN	NORTON	PDQ	PARKER	SARGENT	TAYMOR	YALE
900 FULL COVER	DC3200	8600FC	SC80FC	TC600	5200	1460FC	8501	5100 / 5500	---	1431	1900	3501
CR441	DC3000 / DC6200	8900	SC70	TC4300	5100	4041	9500	7100	441BC	281 / 350	---	4400
CR801S SLIM COVER	DC3200 X M76	8600	SC80	TC500	5200SLC	1460-72	8301	---	---	1430	---	3301
CR801 FULL COVER	DC3200	8600FC	SC80FC	TC400	5200FC	1460FC	8501	5300	---	1431	---	3501
300	---	640 / 7300 / 7400	---	---	5300	1070 / 1370	1600	3100	900	1130	---	50
500	---	640 / 7300 / 7400	---	---	5300	1070 / 1370	1600	---	900	1130		50
700	4600	640	---	TC2200	5400	---	9300	---	500	---	600	2300
400	4600	640	---	TC300	5400	---	9300	---	500	---	500	2300

The data on this chart represents our judgment of which are most similar. Since no two products are exactly alike, it is not guaranteed nor represented that any specific product exactly equals any other product. Door closer body sizes may be different. The information used in this table has been obtained from trade sources.

900 SERIES

ANSI A156.4 Grade 1, Full Cover, Multi-Size Full Feature Closer
UL Listed, Conforms to Standards UL10C and UBC7-2-1997
BHMA Certified Lifetime Warranty



c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

MEETS
The Buy American Act
(SPECIFY **MADE IN KOREA** WHEN ORDERING)

LIFETIME WARRANTY

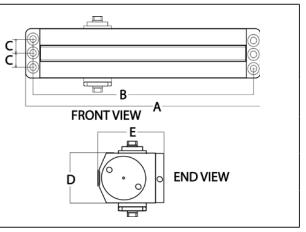
BHMA CERTIFIED
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- Cal-Royal's Finest Hydraulic Door Closer Series Meeting the Highest Industry Standards Grade 1
- Heavy-Duty Full Feature Multi-Size Commercial Door Closer for Use In Office Buildings, Shopping Center and Other Commercial Buildings
- Standard Back-Check Function
- Standard Packaging includes Full Plastic Cover with Sex Bolts and Screws. (Metal Optional)
- Optional Plated Decorative Covers are available including 32D
- Optional Adjustable Delayed Action for Handicapped or Elderly

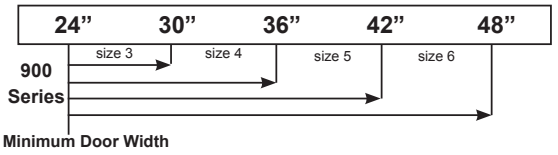
FEATURES

- Hydraulic Door Closer
- ANSI A156.4 Grade 1: UL Listed for Fire Door Assemblies
- Universal Application. Non-Handed for Standard, Top Jamb or Parallel Arm Installation
- Non-Sized, 1 thru 6 FACTORY PRESET SIZE 3
- Door Weights: 30-260 lbs (All Models)
- Standard Adjustable Back-Check Function
- Adjustable Closing and Latching Speed by Two Separate Regulating Valves
- 6 Attaching Holes for Extra Secure Mounting to Door or Frame
- Available in Alum, Duro, Gold, White, US3, 26, 26D, 10, 15, 10B, 32D, 4 and 5 Finishes
- Optional Adjustable Delayed Action (**DA**). Preset at the Factory for Approximately 20 Seconds, Between 70° and 0° Delay Time Easily Adjusted Up to 1 Minute
- Barrier Free (**BF**) Meets ADA regulation. Size 1 thru 6 Engineered with Reduced Spring Power to Provide Easier Opening for Handicapped or Elderly

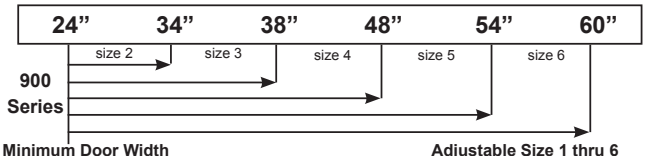
DESCRIPTION	SIZE
A. Length of Closer Body	11 ¾"
B. Horizontal Mounting Holes	11 1/8"
C. Vertical Mounting Holes	9/16"
D. Height of Closer Body	2"
E. Projection from Door	2 7/8"



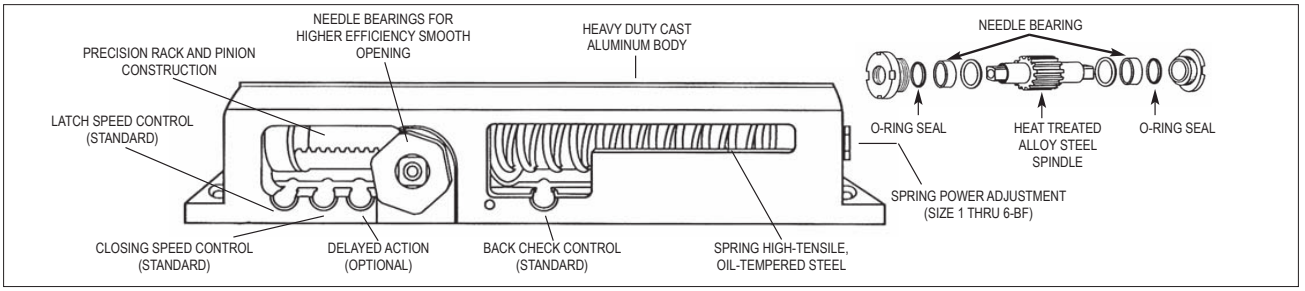
EXTERIOR (and VESTIBULE) DOOR WIDTH



INTERIOR DOOR WIDTH



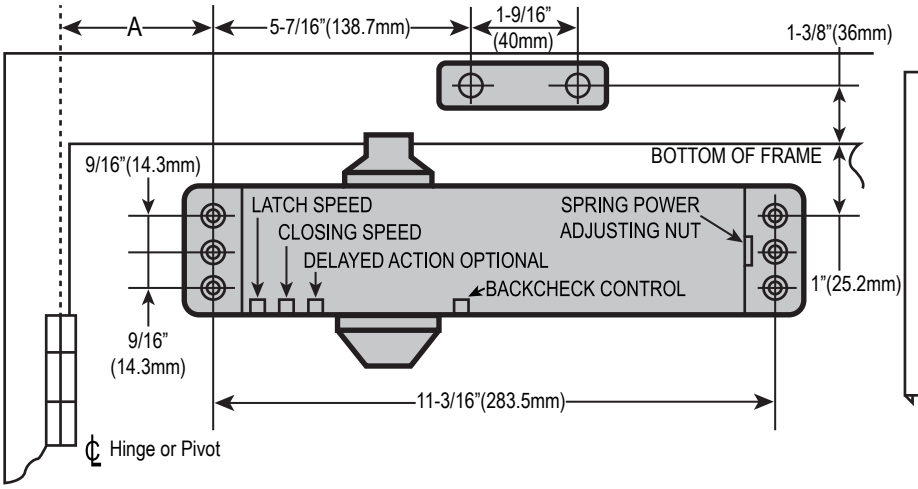
Conforms to Standards UL10C and UBC7-2-1997

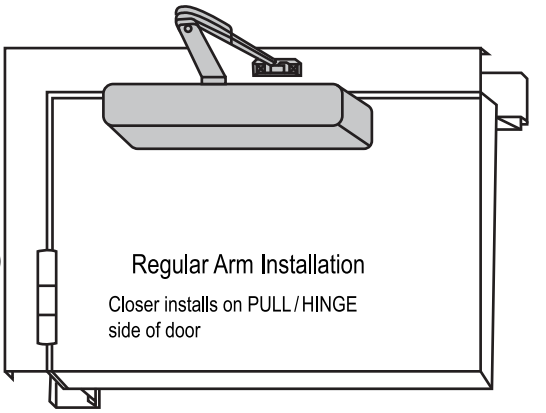


MOUNTING INFORMATION

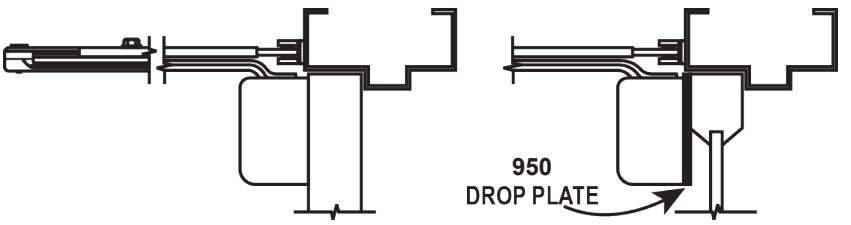
CAL-ROYAL PRODUCTS, INC. U.S.A.

900 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)



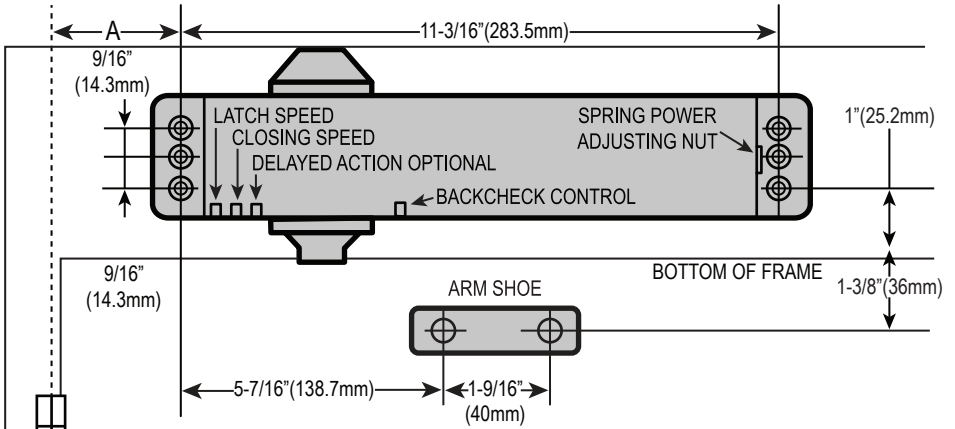


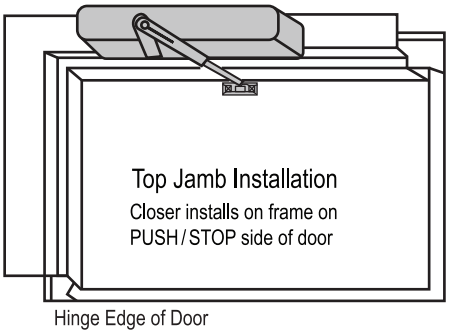
- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE



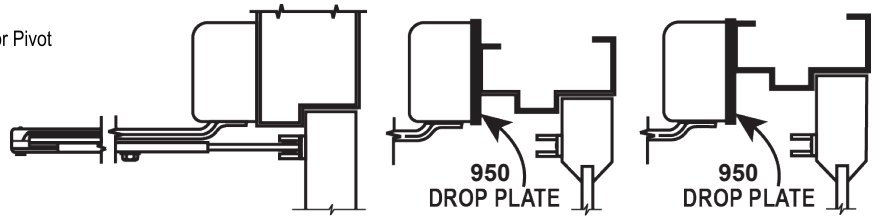
OPENING	DIM A
TO 120°	7-3/32 (180mm)
120° - 180°	3-15/16 (100mm)

900 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)



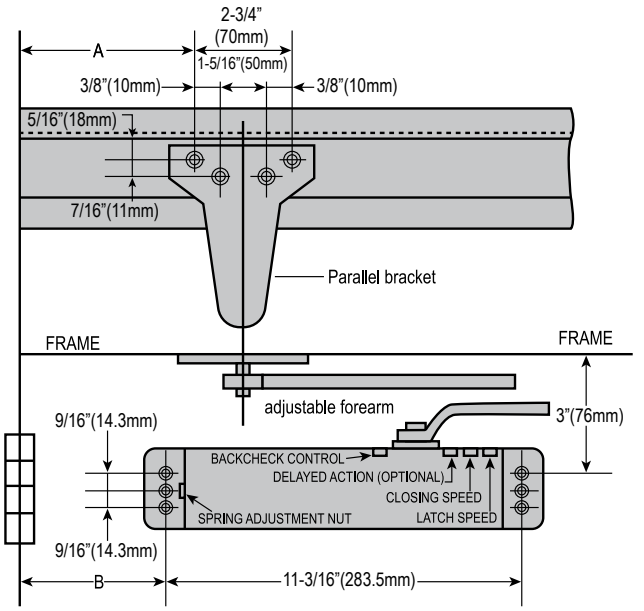


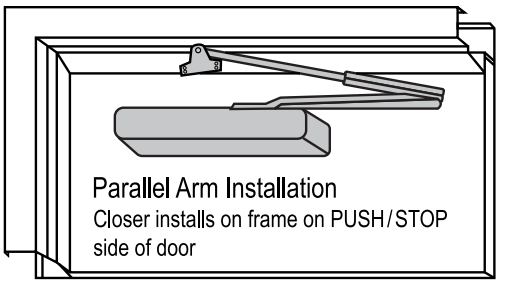
- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

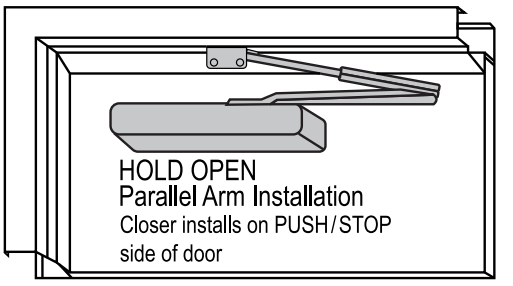


OPENING	DIM A
TO 120°	7-3/32 (180mm)
120° - 180°	3-15/16 (100mm)

900 SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)

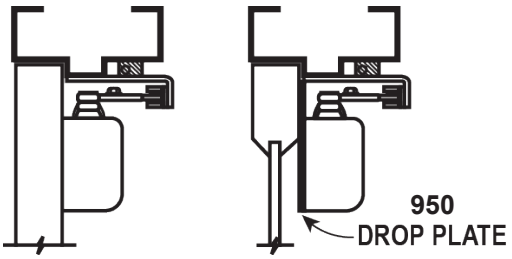






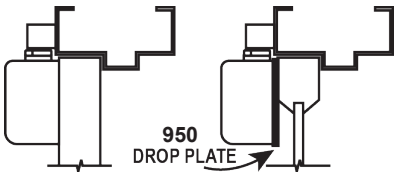
OPENING	DIM A	DIM B
TO 120°	9-1/2(241.5 mm)	6-1/8 (156 mm)
120° - 180°	5-7/8 (149.7 mm)	2-9/16 (65 mm)

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE



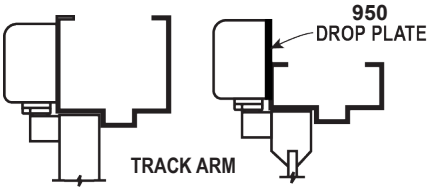
900 SERIES : OPTIONAL INSTALLATION

REGULAR ARM (PULL SIDE)



TRACK ARM

TOP JAMB (PUSH SIDE)



MAXIMUM OPENING: 180°(Standard), 120° (Hold Open)

OPTIONAL INSTALLATION

ARMS

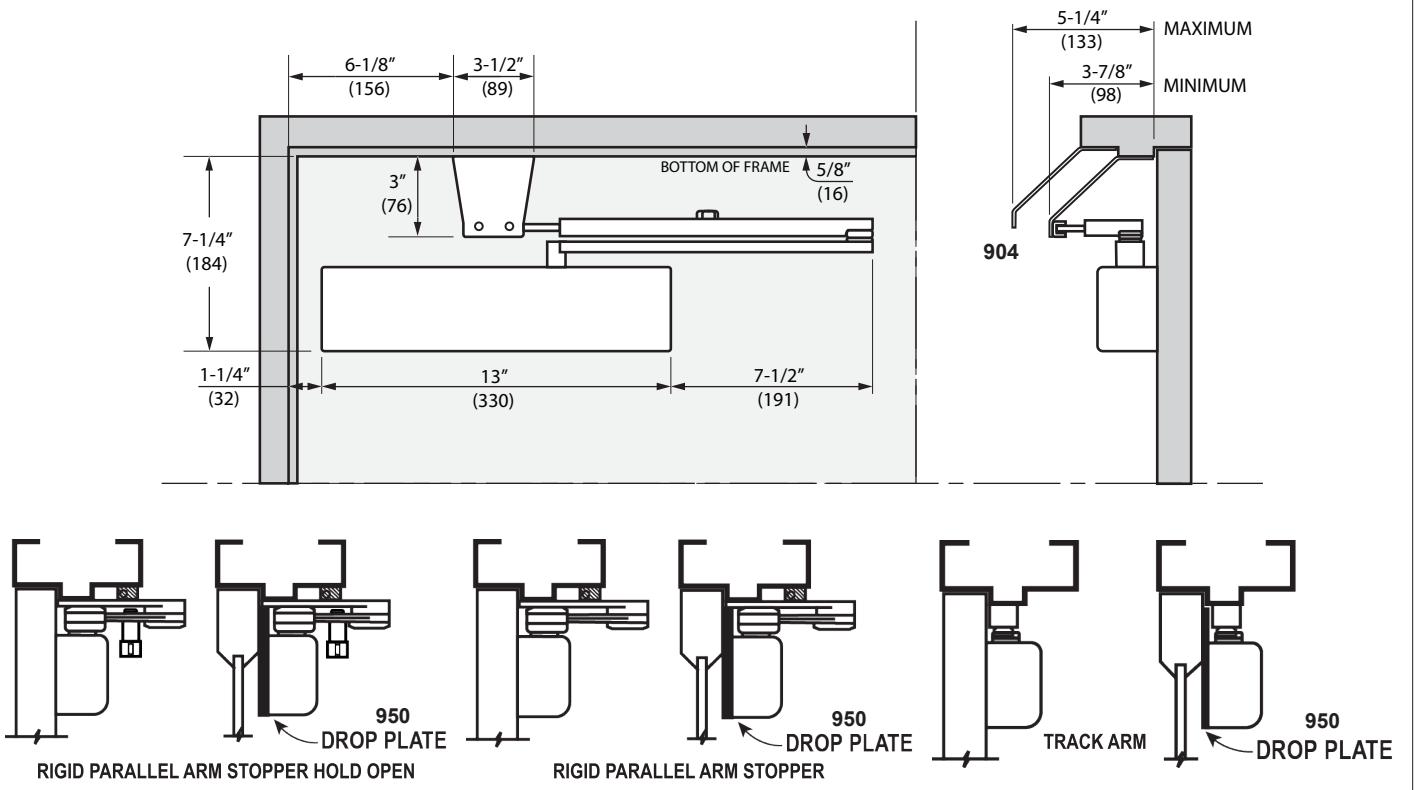
- **901 / 902** - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe
- **900EXT** - Extended Long Arm (3" Extension) for Top Jamb with Deep Reveals
- **945AR** - Door Closer Arm (Main and Regular Forearm)
- **TRACK / 900** - Slide Track Arm with Removable Hold-Open

BRACKETS

- **950 -** Flat Drop Plate for Top Rail less than 3 ½"

900 SERIES : OPTIONAL INSTALLATION

PARALLEL ARM (PUSH SIDE)



MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)

OPTIONAL INSTALLATION

ARMS

- **900HOSPRING** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Spring Loaded Stop in Soffit Shoe
- **900SPRING** - Super Rigid Non-Handed Parallel Arm with Spring Loaded Stop in the Soffit Shoe
- **HOSRPS / 900** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Stop in Soffit Shoe
- **SPAS900** - Super Rigid Parallel Arm Stopper, Non-Handed with Stop in Soffit Shoe
- **901 / 902** - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe
- **900EXT** - Extended Long Arm (3” extension) for Top Jamb with Deep Reveals
- **945AR** - Door Closer Arm (Main and Regular Forearm)
- **TRACK / 900** - Slide Track Arm with Removable Hold-Open

BRACKETS

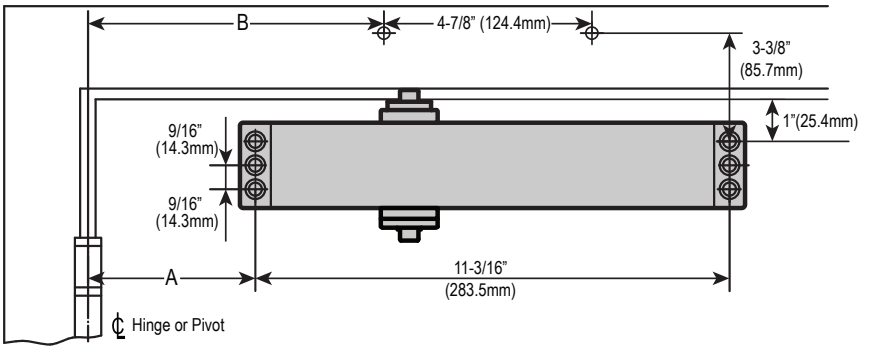
- **904** - Parallel Arm Drop Bracket for Non-Hold Open Parallel Arm Applications to Clear a Surface-Applied Stop / Holder
- **905** - Parallel Arm Bracket
- **950** - Flat Drop Plate for Top Rail less than 3 ½”

RHDSA-SS ARM INSTALLATION

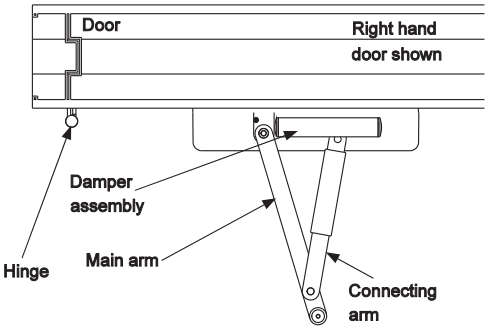
CAL-ROYAL PRODUCTS, INC. U.S.A.

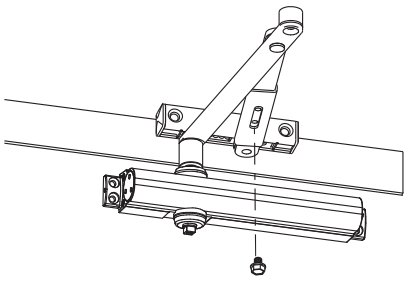
Cushion Heavy Duty Stop Spring Arm with Spring Shoe

900 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)



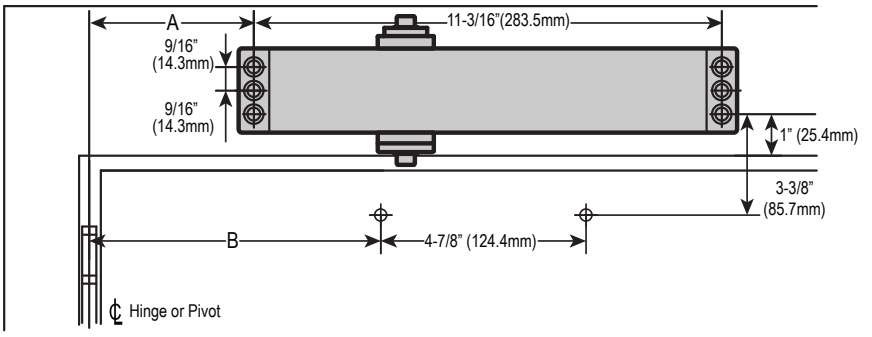
OPENING	DIM A	DIM B
TO 85°	9-3/8" (238.6mm)	12-1/4" (312mm)
TO 90°	8-3/4" (222.6mm)	11-5/8" (296mm)
TO 100°	7-7/8" (200.6mm)	10-13/16" (274mm)
TO 110°	7-1/8" (180.6mm)	10-1/16" (255mm)



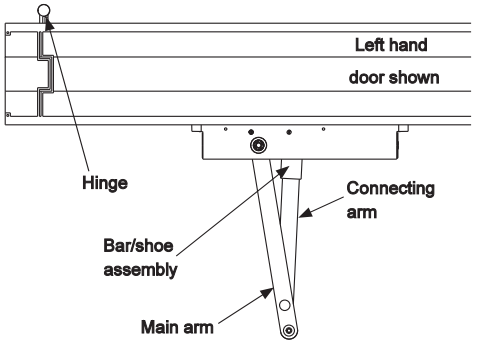


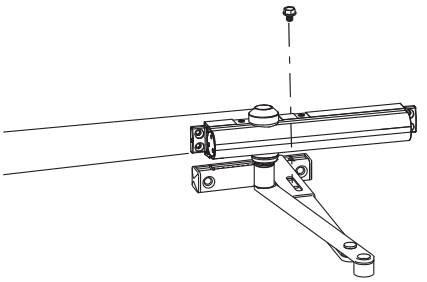
- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

900 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)



OPENING	DIM A	DIM B
TO 85°	8-5/16" (211mm)	11" (279mm)
TO 90°	8" (203mm)	10-11/16" (271mm)
TO 100°	6-7/8" (175mm)	9-9/16" (243mm)
TO 110°	6-1/4" (159mm)	8-15/16" (227mm)





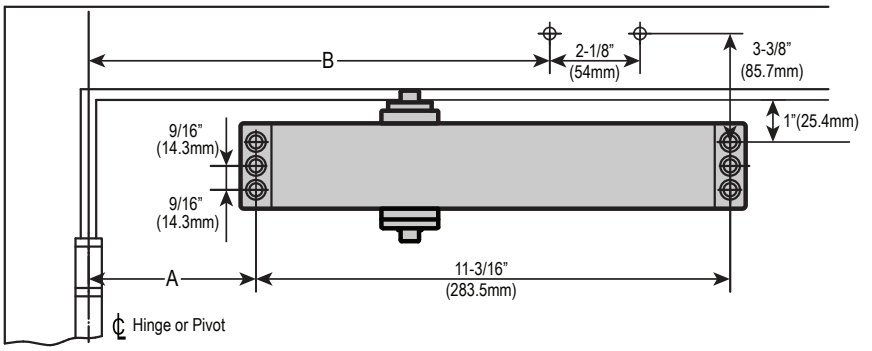
- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

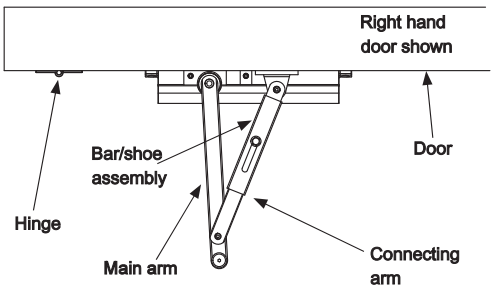
RHDSTP ARM INSTALLATION

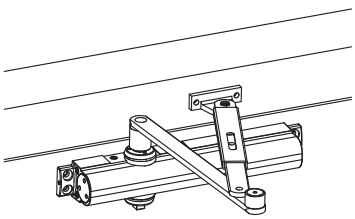
CAL-ROYAL PRODUCTS, INC. U.S.A.

Cushion Heavy Duty Stop Arm

900 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)



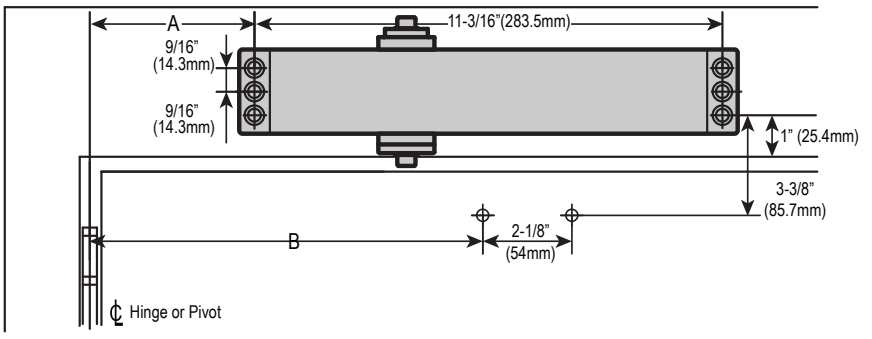


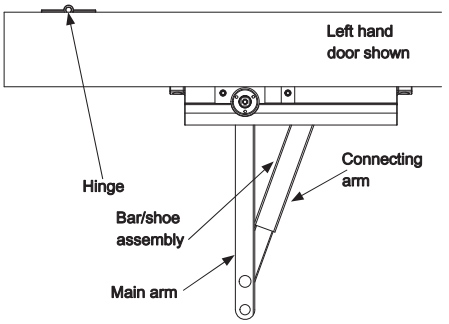


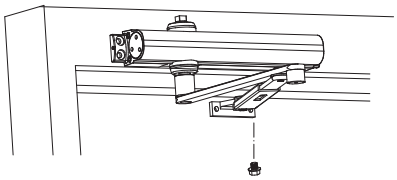
OPENING	DIM A	DIM B
TO 85°	6-1/4" (158.6mm)	14-5/16" (364mm)
TO 90°	5-5/8" (142.6mm)	14" (355mm)
TO 95°	4-13/16" (122.6mm)	13-11/16" (348mm)
TO 100°	5-3/4" (145.6mm)	13-1/16" (332mm)
TO 105°	4-1/4" (107.6mm)	12-3/4" (323mm)
TO 110°	4-1/8" (104.6mm)	12-5/16" (313mm)

- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

900 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)







OPENING	DIM A	DIM B
TO 85°	6-7/8" (174.6mm)	13-3/8" (339mm)
TO 90°	6-1/8" (155.6mm)	12-13/16" (326mm)
TO 95°	5-7/8" (149.6mm)	12-7/16" (316mm)
TO 100°	5-5/8" (142.6mm)	12" (304mm)
TO 105°	5-3/8" (136.6mm)	11-11/16" (297mm)
TO 110°	5-1/8" (129.6mm)	11-7/16" (291mm)

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

900 SERIES ACCESSORIES

CAL-ROYAL PRODUCTS, INC. U.S.A.



900HOSPRING

- Super rigid parallel arm stopper with hold-open
- Forged Steel Constructions
- Non-handed
- Spring loaded stop in soffit shoe
- Handle controls hold-open function
- Equivalent to ***LCN SPRING H-CUSH ARM***



900SPRING

- Super rigid parallel arm stopper
- Forged Steel Constructions
- Non-handed parallel arm
- Spring loaded stop in the soffit shoe
- Equivalent to ***LCN SPRING CUSH ARM***



HOSRPS / 900

- Super rigid parallel arm stopper with hold-open
- Forged Steel Constructions
- Non-handed with stop in soffit shoe
- Handle controls hold-open function
- Equivalent to ***LCN H-CUSH ARM***



SPAS900

- Super rigid parallel arm stopper
- Forged Steel Constructions
- Non-handed with stop in soffit shoe
- Equivalent to ***LCN CUSH-N-STOP ARM***



CR900HDAR

- Non-handed parallel arm
- Forged Steel main arm and forearm
- For potentially abusive installations



901 / 902

- Hold-open arm with parallel bracket
- Forged Steel Constructions
- Non-handed with stop in soffit shoe



RHDSA-SS

- Cushion Heavy Duty Stop Spring Arm with spring shoe
- Provides a spring assisted dead stop function for regular and top jamb applications at 85°, 90°, 100°, and 110°.
- Non-Handed
- 0"-3 ½" (0-89mm) Reveal
- Equivalent to ***Dorma 8600 Series Spring Stop IS Arm***



RHDSTP

- Cushion Heavy Duty Stop Arm
- Provides a cushioned opening function for regular and top jamb applications at 85°, 90°, 95°, 100°, 105°, and 110°.
- Non-Handed
- 0"-3 ½" (0-89mm) Reveal
- Equivalent to ***Dorma 8600 Series Cushion IS Arm, and Norton 1600 Series 7701-CA Arm***



945AR

- Forged Steel main and forearm
- Non-handed
- Door closer arm (Main and regular forearm)



900EXT

- Extended long arm (3" extension)
- Non-handed
- For top jamb with deep reveals



TRACK / 900

- Slide track arm
- With removable hold-open clip
- Non-handed



900COV

- Full Cover
- Non-handed
- Plastic material



900MET

- Optional full metal cover
- Non-Handed
- Metal material
- Aluminum stock finish



900SMET

- Slim Cover
- Non Handed
- Metal material
- US32D Stainless Steel stock finish



904

- Parallel arm drop bracket
- Non-handed
- Required for non-hold open parallel arm applications
- To clear a surface-applied stop / holder



905

- Parallel arm bracket
- Non-handed



950

- Flat drop bracket
- Non-handed
- Required for hinge mount where top rail is less than 3 ½"
- Plate requires 1 ¾" minimum head frame
- Available in powder coat finishes



970138

- Sex bolts for 1 ⅜" doors
- Female part only
- ¼" – 20 (set of 4)
- For Steel Door Application



970

- Sex bolts
- Female part only
- ¼" – 20 (set of 4)
- For Steel Door Application



706

- Thru bolts and grommet nuts
- Set of 4
- For Wood and Aluminum Door Application

CR441 SERIES

ANSI A156.4 Grade 1, Full Cover Multi-Size, Full Feature Closer
UL Listed, Conforms to Standards UL10C and UBC7-2-1997
BHMA Certified Lifetime Warranty



c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

MEETS
The Buy American Act
(SPECIFY **MADE IN KOREA** WHEN ORDERING)

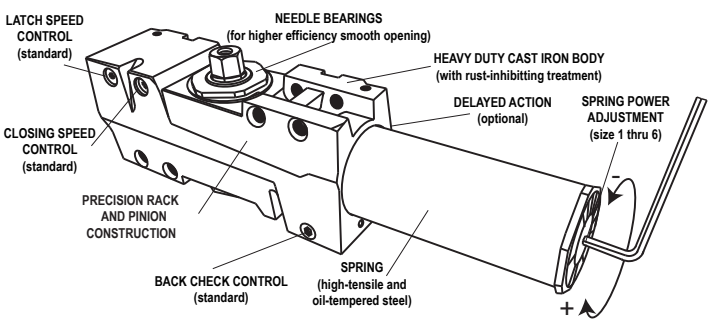
LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

- Cal-Royal's Finest Hydraulic Door Closer Series Meeting the Highest Industry Standards, Grade 1
- Heavy-Duty Double Lever Arm with Extra Smooth Action Full Feature Multi-Size Commercial Door Closer for Use In Office Buildings, Shopping Centers and other Commercial Buildings
- Standard Back-Check Function
- Standard Packaging includes Full Plastic Cover with Sex Bolts and Screws. (Metal Optional)
- Optional Plated Metal Decorative Covers Including 32D
- Optional Adjustable Delayed Action / Barrier Free for Handicapped Or Elderly

FEATURES

- Universal Application. Non-Handed for Standard, Top Jamb or Parallel Arm Installation
- Non-Sized, 1 thru 6 FACTORY PRESET SIZE 3 Meets ADA
- Door Weights: 30-260 lbs
- Hydraulic Door Closer with Standard Adjustable Back-Check Function
- Adjustable Closing and Latching Speed by Two Separate Regulating Valves
- Optional Adjustable Delayed Action (**DA**) Preset at the Factory for Approximately 20 Seconds, Between 70° and 0° Delay Time Easily Adjusted up to 1 Minute. **CR441 DA**
- Standard Full Plastic Cover (**CR441COV**)
- Self-Tapping Screws and Closer Gauge for Easy Adjustment is Standard Feature
- Available in Alum, Duro, Gold, US3, 26, 26D, 10B and 32D



REDUCED OPENING FORCE CR441 DOOR CLOSERS

IMPORTANT Any door closer, including those certified by **BHMA** to conform to **ANSI Standard A156.4**, that is chosen, installed and adjusted based on ADA or other reduced opening force requirement may not provide sufficient power to close and latch a door. Location of door could also affect action and efficiency of door closer.

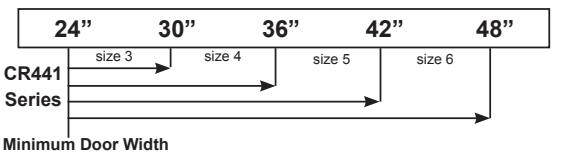
DOOR WIDTH	36"	42"	48"
**8.5 lbs.	CR441	CR441	CR441
**5.0 lbs.	CR441	CR441	CR441

**** Maximum Opening Force**

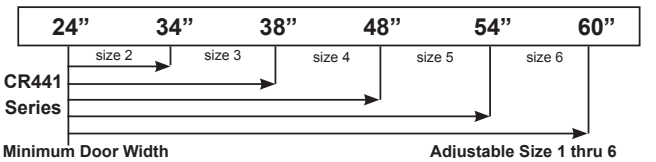
TABLE OF SIZES

Closing power of CR441 closers may be adjusted 50%
→ Shows recommended range of door width for closer size.

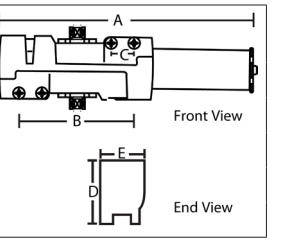
EXTERIOR (and VESTIBULE) DOOR WIDTH



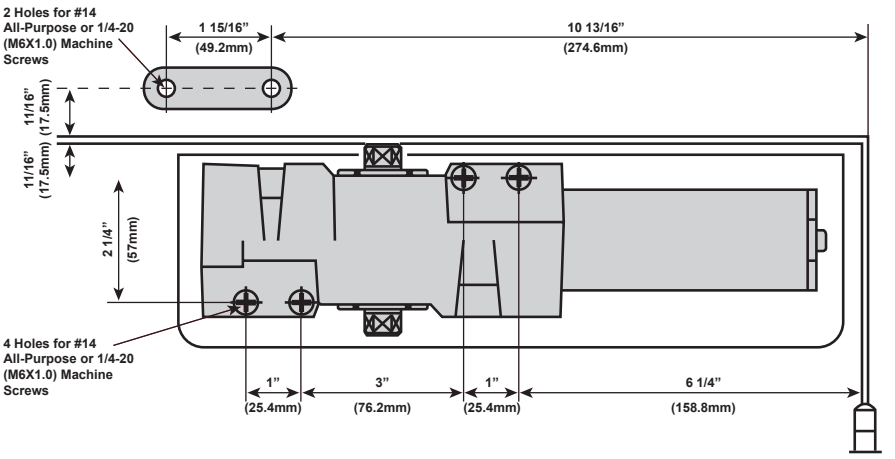
INTERIOR DOOR WIDTH

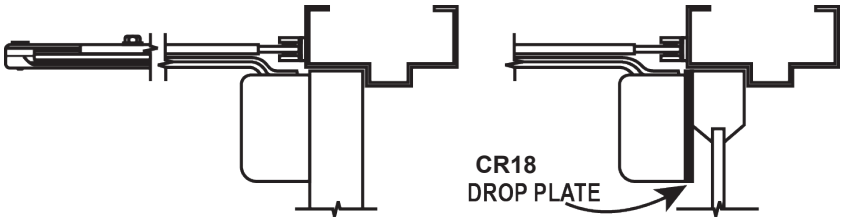


DESCRIPTION	SIZE
A. Length of Closer Body	11"
B. Horizontal Mounting Holes	5"
C. Vertical Mounting Holes	1"
D. Width of Closer Body	2 ¾"
E. Projection from Door	2"



CR441 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

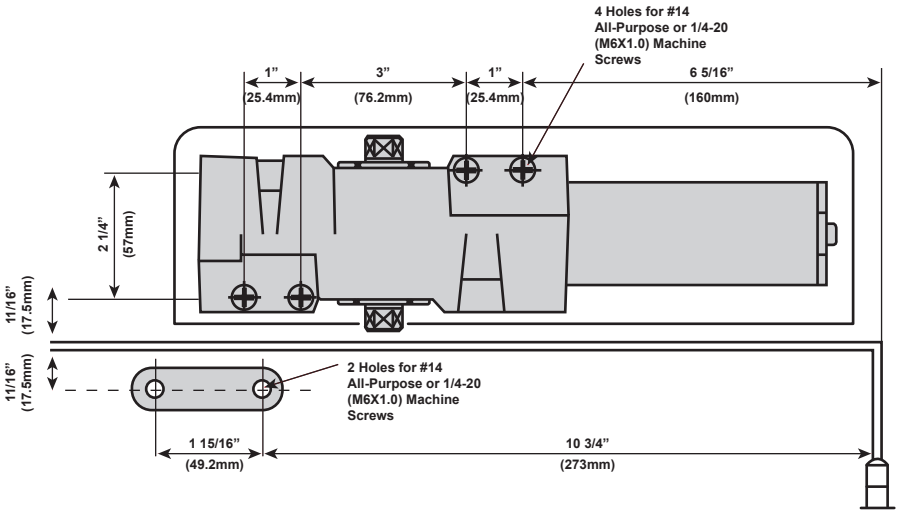


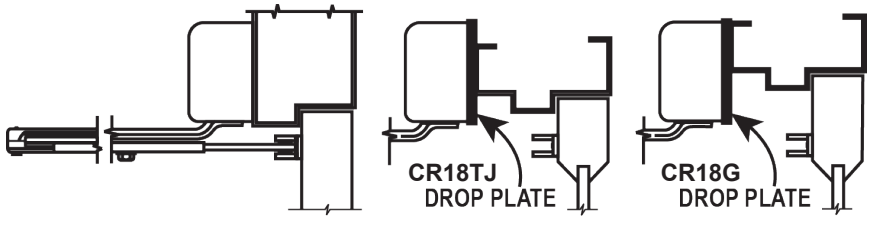


- **Butt Hinges** should not exceed 5" (127mm) in width.
- **Auxiliary Stop** is recommended at hold-open point or where a door cannot swing beyond 120°
- **Reveal** should not exceed ¾" (19mm) for regular arm or hold-open arm.
- **Top Rail** less than 3 ¾" (19mm) requires PLATE, **CR18**. Plate requires 2" (51mm) minimum.
- **Clearance** of 2 ⅜" (60mm) behind door required for 90° installation.
- **Delayed Action** - Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.
- See **Optional Installation** for ARMS and BRACKETS available on the next page.

- **RIGHT HAND DOOR SHOWN**
- **SURFACE MOUNTED**
- **ADJUSTABLE AND PRE-SET BACKSET**
- **NON-HOLD OPEN / HOLD OPEN**

CR441 SERIES : TOP JAMB INSTALLATION (PUSH SIDE)

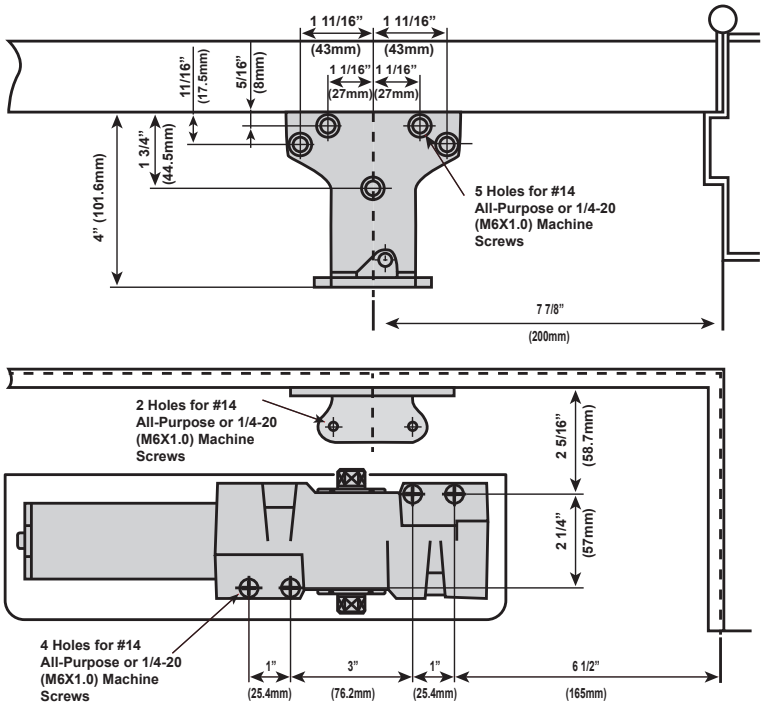




- **Butt Hinges** should not exceed 5" (127mm) in width.
- **Auxiliary Stop** is recommended at hold-open point or where a door cannot swing beyond 120°
- **Reveal** of 2 9/16" (65mm) allows 120° opening for regular or standard hold-open arm. 8" (203mm) allows up to 120° opening with **CR441EXT.**
- **Top Rail** requires 1 ¼" (32mm) minimum. 2 ¼" (57mm) minimum with closer on PLATE, **CR18TJ**. 3" (76mm) minimum with closer on PLATE, **CR18G**.
- **Head Frame** less than 3 ½" (89mm) requires PLATE, **CR18TJ**. With flush ceiling, use PLATE, **CR18G**. Either plate requires 1 ¾" (44mm) minimum.
- **Delayed Action** - Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.
- See **Optional Installation** for ARMS and BRACKETS available on the next page.

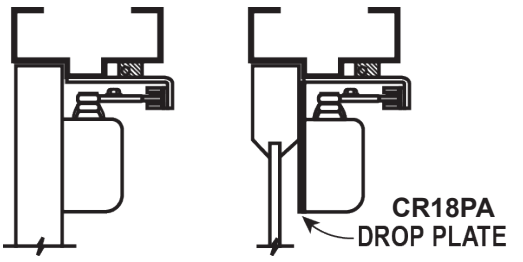
- **LEFT HAND DOOR SHOWN**
- **SURFACE MOUNTED**
- **ADJUSTABLE AND PRE-SET BACKSET**
- **NON-HOLD OPEN / HOLD OPEN**

CR441 SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)



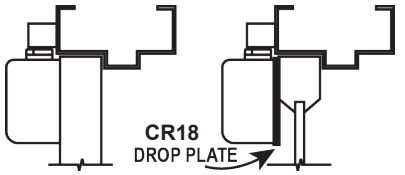
- RIGHT HAND DOOR SHOWN
- SURFACE MOUNTED
- ADJUSTABLE AND PRE-SET BACKSET
- NON-HOLD OPEN / HOLD OPEN

- **Butt Hinges** should not exceed 5" (127mm) in width.
- **Auxiliary Stop** is recommended at hold-open point or where a door cannot swing beyond 180°, or where **CR3077SPAS** arm is not used.
- **Top Rail** less than 5 ⅜" (137mm) measured from the stop requires PLATE, **CR18PA**. Plate requires 2" (51mm) minimum from the stop.
- **Stop Width** minimum 1" (25mm). **CUSH** arm requires minimum 1 ½" (38mm).
- **Delayed Action** - Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.
- See **Optional Installation** for ARMS and BRACKETS available on the next page.

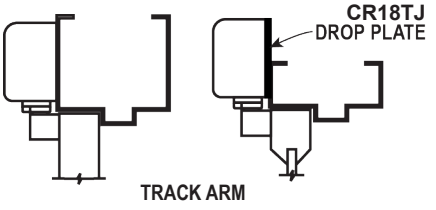


CR441 SERIES : OPTIONAL INSTALLATION

REGULAR ARM (PULL SIDE)



TOP JAMB (PUSH SIDE)



MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)

OPTIONAL INSTALLATION

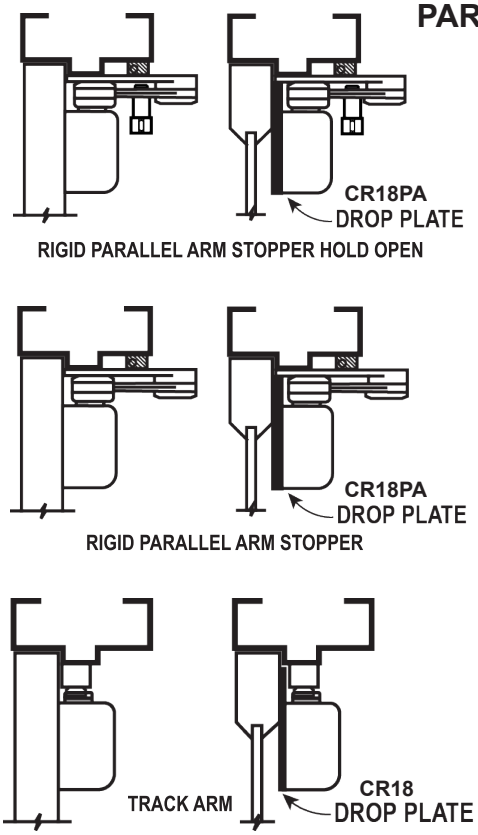
ARMS

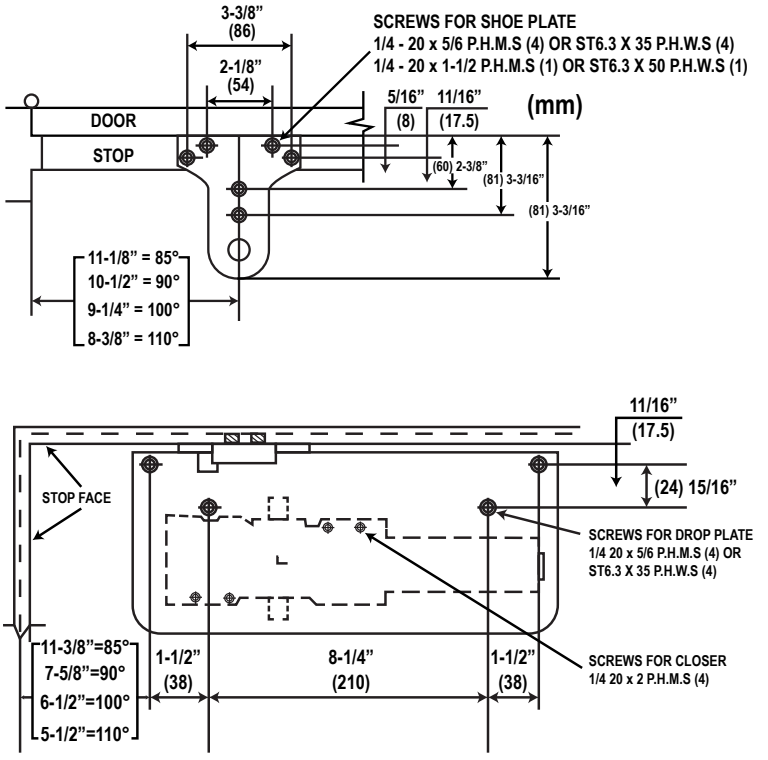
- **CR3049HO** - Non-Handed Hold Open Arm with Parallel Bracket
- **CR441ARM** - Door Closer Arm (Main and Regular Forearm)
- **CR441EXT** - Extended Long Arm (3" extension) for Top Jamb with reveals
- **TRACK441** - Slide Track Arm with Hold-Open

- **CR18PA** - Drop Plate for Parallel Arm Mounting Top Rail is less than 5 ½" Measured from Stop. Plate Requires 2" Minimum Top Rail
- **CR18** - Drop Plate used where Top Rail is less than 3 ¾"
- **CR18TJ** - Drop Plate for Top Jamb where Face is less than 3 ½"
- **CR18G** - Drop Plate for Top Jamb Mounted Closer Flush with Top of Head Frame Face in Flush Ceiling Condition. Plate Requires 1 ¾" Minimum Head Frame

CR441 SERIES : OPTIONAL INSTALLATION

PARALLEL ARM (PUSH SIDE)





MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)

OPTIONAL INSTALLATION

ARMS

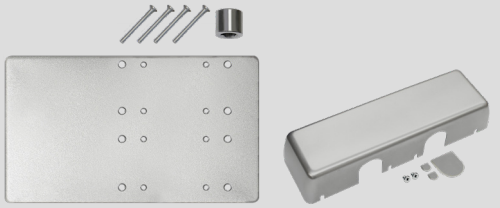
- **CR3049HO** - Non-Handed Hold Open Arm with Parallel Bracket
- **CR441ARM** - Door Closer Arm (Main and Regular Forearm)
- **CR441EXT** - Extended Long Arm (3" Extension) for Top Jamb with Reveals
- **TRACK441** - Slide Track Arm with Hold-Open
- **CR3049HOSPRING** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Spring Loaded Stop in Soffit Shoe
- **CR3077SPRING** - Super Rigid Non-Handed Parallel Arm with Spring Loaded Stop in the Soffit Shoe
- **CR3049HOSRPS** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Stop in Soffit Shoe
- **CR3049SPAS** - Super Rigid Parallel Arm Stopper, Non-Handed with Stop in Soffit Shoe
- **CR3077HDAR** - Non-Handed Parallel Arm Features Forged, Solid Steel Main and Forearm for Potentially Abusive Installations

BRACKETS

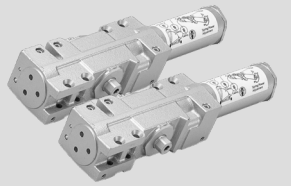
- **CR18PA** - Drop Plate for Parallel Arm Mounting Top Rail is less than 5 ½" Measured from Stop. Plate Requires 2" Minimum Top Rail
- **CR18** - Drop Plate Used Where Top Rail is less than 3 ¾"
- **CR18TJ** - Drop Plate for Top Jamb where Face is less than 3 ½"
- **CR18G** - Drop Plate for Top Jamb Mounted Closer Flush with Top of Head Frame Face in Flush Ceiling Condition. Plate Requires 1 ¾" Minimum Head Frame
- **CR441PA** - Parallel Arm Bracket

CONCR441 - DUAL CLOSER CONNECTOR KIT

CONCR441KIT
Includes:
Steel Connector, Sleeve Nut, Steel Mounting Plate, Screws and Primary Closer Cover
(Does not include closers)



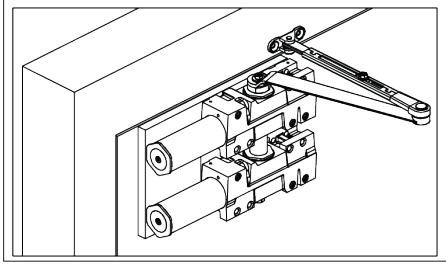
CR441 / TNDM
Includes:
CONCR441KIT,
2 x CR441 Door Closers
(Includes 2 complete boxes of regular door closers)



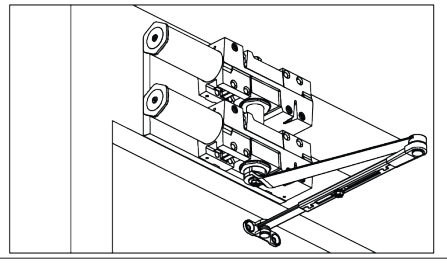
c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997



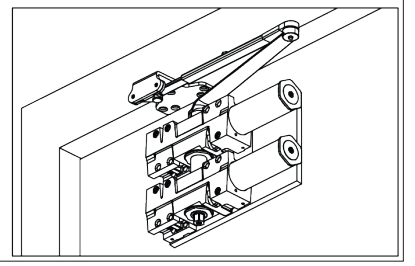
REGULAR ARM (PULL SIDE) MOUNTING



TOP JAMB (PUSH SIDE) MOUNTING

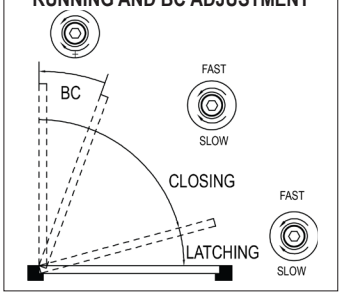


PARALLEL ARM (PUSH SIDE) MOUNTING

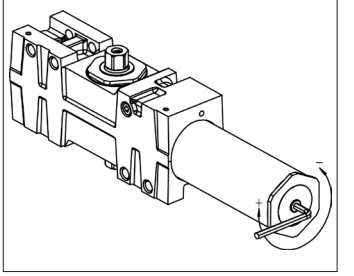


POWER ADJUSTMENT AND DOOR WIDTH		
DOOR MAX WIDTH		ADJUSTING NUT AND TURNS
EXTERIOR	INTERIOR	
-----	5 lb-f	-5 (counter clockwise)
8 lb-f	34" (864)	-2 (counter clockwise)
30" (762)	38" (962)	0
36"(914)	48" (1219)	+5 (clockwise)
42" (1067)	54" (1372)	+10 (clockwise)
48" (1219)	60" (1524)	+15 (clockwise)

RUNNING AND BC ADJUSTMENT



POWER ADJUSTMENT



When a single door closer is not strong enough to close a door weighing 260 ~ 520 lbs, the **CONCR441KIT** allows two CR441 Series Grade 1 Door Closers to work as one, by connecting them together with the high-tensile strength steel connector sleeve nut on a steel mounting plate, doubling the strength and the door weight capacity while maintaining the opening force.

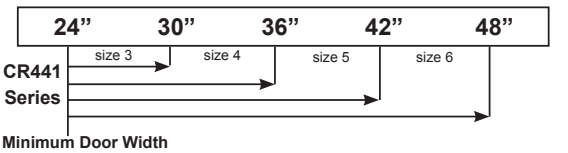
FEATURES

- Connects Two CR441 Series Door Closers
- For Doors 260 ~ 520 lbs Weight
- Can be Used for Regular Arm, Top Jamb or Parallel Arm Mounting
- Easy Mounting
- High Tensile Strength Steel Connector Sleeve Nut
- 12 ⅛" x 7" x $^{3}/_{16}$" Steel Mounting Plate
- 4" x ¼ - 20" x 2 ⅛" Mounting Screws

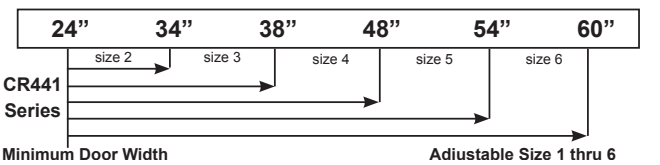
TABLE OF SIZES

Closing power of CR441 closers may be adjusted 50%
→ Shows recommended range of door width for closer size.

EXTERIOR (and VESTIBULE) DOOR WIDTH



INTERIOR DOOR WIDTH



CR441EHO - CR441 WITH ELECTRONIC HOLD-OPEN TRACK

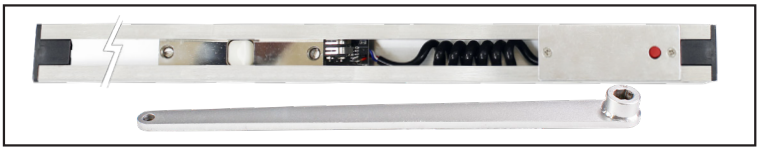
DOOR CLOSER BODY FEATURES

- Full Cover Multi-size
- Full Feature Closer
- ANSI A156.4 Grade 1
- UL Listed, Conforms to Standards
- UL10C and UBC7-2-1997
- BHMA Certified Lifetime Warranty
- Electronic Hold-Open Track



c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.
(ON DOOR CLOSER BODY ONLY)



CR441 EHO FEATURES

- Heavy Duty Electronic Closer / Holder Track for CR441 Door Closers
- Designed for Single Point Hold-Open for Fire and Smoke Barrier Doors
- Designed to Hold Doors Open in Normal Use and Close Under Fire Conditions
- Adjustable Hold-Open Force
- Functions as a Full Rack and Pinion Closer when Hold-Open is Not Engaged or Current is Interrupted
- Door Opening can be Adjusted on the Track Arm
- Concealed or Surface Wiring
- Interfaces with Alarm Systems
- Mounts on Either Head Frame or Stop
- Non-Handed
- Non-Sized
- 24V AC / DC Input for Holding Solenoid
- Includes Test Switch for Integrity Cycle Test

The **CR441EHO** is a Grade 1 heavy duty door closer with electrically controlled hold-open track arm. It is designed to provide adjustable hold-open for fire and smoke barrier doors.

Door is held open until current interruption releases mechanism and the door closes. It can also be interfaced to any alarm systems and has a built-in switch for integrity cycle testing.

Single lever (track) arm closer is specifically designed for interior doors.

The **CR441EHO** series door closer body is UL & cUL listed for smoke barrier or labeled fire doors. Tested and certified under ANSI Standard A156.15. Conforms to life safety code, NFPA 101. **BHMA** Certified Lifetime Warranty.

CR271PC - CR441 POCKET DOOR CLOSER APPLICATION

FEATURES

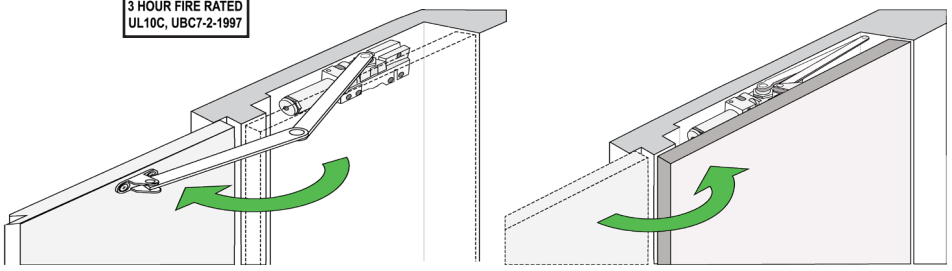
- Cal-Royal's **EXTRA POWERFUL** Hydraulic Door Closer Series
- Meeting The Highest Industry Standards
- ANSI A156.4, Grade 1 , UL and cUL Listed
- Cast Iron, Non-Handed
- **High Performance Hydraulic Fluid**
- **Higher Tensioned Steel Spring**
- **High-Demand Performance Applications**
- **Heavy Duty Double Lever Forged Steel Arm** with Extra Smooth Action

☑ For **180 DEGREES** opening in a **Pocket Door ONLY Application**

⃠ **NOT FOR USE** with conventional hinges or latching hardware

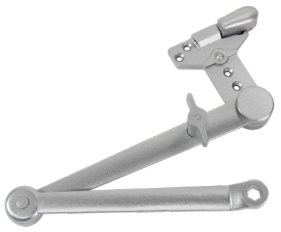
CR271PC is the CR441 Series' Pocket Door Closer. It is the same CR441 (cylinder) body specially re-engineered for pocket door closer applications. It uses a higher tensioned steel spring, combined with a high-performance hydraulic fluid to withstand high-demand performance applications. Due to the higher force required to open the door 180 degrees, a heavy duty lever forged steel arm was designed 1" longer than the standard CR441 arm for an extra smooth action.

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997



CR441 SERIES ACCESSORIES

CAL-ROYAL PRODUCTS, INC. U.S.A.



3049HOSPRING

- Super rigid parallel arm stopper with hold-open
- Forged Steel Constructions
- Non-handed
- Spring loaded stop in soffit shoe
- Handle controls hold-open function
- Equivalent to ***LCN SPRING H-CUSH ARM***



CR3077SPRING

- Super rigid parallel arm stopper
- Forged Steel Constructions
- Non-handed parallel arm
- Spring loaded stop in soffit shoe
- Equivalent to ***LCN SPRING CUSH ARM***



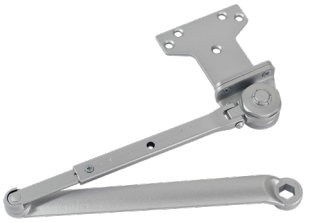
CR3049HOSRPS

- Super rigid parallel arm stopper with hold-open
- Forged Steel Constructions
- Non-handed with stop in soffit shoe
- Handle controls hold-open function
- Equivalent to ***LCN H-CUSH ARM***



CR3077SPAS

- Super rigid parallel arm stopper
- Forged Steel Constructions
- Non-handed with stop in soffit shoe
- Equivalent to ***LCN CUSH-N-STOP ARM***



CR3049HO

- Hold-open arm with parallel bracket
- Forged Steel Constructions
- Non-handed with stop in soffit shoe



CR3077HDAR

- Non-handed parallel arm
- Forged Steel main arm and forearm
- For potentially abusive installations



CR441ARM

- Forged Steel main arm and forearm
- Non-handed
- Door closer arm (Main and regular forearm)



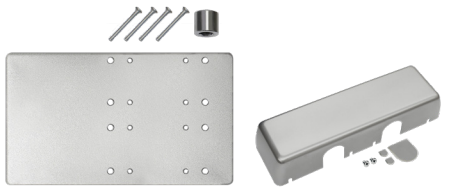
CR441EXT

- Extended long arm (3” extension)
- Non-handed
- For top jamb with deep reveals



TRACK441

- Slide track arm
- With removable hold-open clip
- Non-handed



CONCR441KIT

- CR441 Tandem Connector Sleeve Nut
- Mounting Plate
- Master Cover
- Universal use for regular arm, top jamb, or parallel arm mounting



CR441 / TNDM

- 1 each CONCR441KIT
- 2 each of CR441 door closers
- Universal use for regular arm, top jamb, or parallel arm mounting

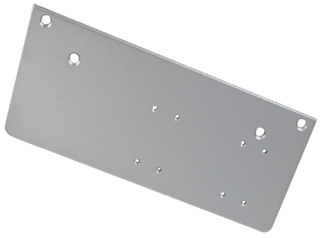


CR441EHO

- Electronic Hold Open Arm with door closer
- Mounts on either head frame or stop
- Non-handed
- Non-sized
- 24V AC / DC input for holding solenoid

CR441 SERIES ACCESSORIES

CAL-ROYAL PRODUCTS, INC. U.S.A.



CR18PA

- Drop plate for parallel arm where mounting and top rail is less than 5 ½" measured from stop
- Plate requires 2" minimum top rail
- Non-handed



CR18

- Drop plate used where top rail is less than 3 ¾"
- Non-handed



CR18TJ

- Drop plate for top jamb where face is less than 3 ½"
- Non-handed



CR18G

- Drop plate for top jamb mounted closer flush with top of head frame face in flush ceiling condition
- Plate requires 1 ¾" minimum head frame
- Non-handed



CR441PA

- Parallel Arm Bracket



CRWRENCH

- Variable-sized hexagonal wrench for CR3049HO Arm



CR441COV

- Plastic material cover
- Non-handed



CR441COV US32D

- Stainless Steel material cover
- Non-handed



CR441COVMET28

- Steel material cover
- Non-handed
- Aluminum stock finish



CUSSS-61

CUSH Shoe Support

- Provide anchorage for fifth screw used with CUSH arms where reveal is less than 3-1/16" (78 mm)



BLASS-30

Blade Stop Spacer

- Lower parallel arm shoe to clear ½" (13 mm) blade stop



970138

- Sex bolts for 1 ⅜" doors
- Female part only
- ¼" – 20 (set of 4)
- For Steel Door Application



970

- Sex bolts
- Female part only
- ¼" – 20 (set of 4)
- For Steel Door Application



706

- Thru bolts and grommet nuts
- Set of 4
- For Wood and Aluminum Door Application

CR801 / CR801S SERIES

ANSI A156.4 Grade 1,Slim / Full Cover Multi-Size, Full Feature Closer
UL Listed, Conforms to Standards UL10C and UBC7-2-1997
BHMA Certified Lifetime Warranty



c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

- Cal-Royal's Finest Hydraulic Door Closer Series Meeting the Highest Industry Standards, Grade 1
- Heavy-Duty Double Lever Arm with Extra Smooth Action Full Feature Multi-Size Commercial Door Closer for Use In Office Buildings, Shopping Centers and Other Commercial Buildings
- Standard Back-Check Function
- Optional Slim / Full Plastic Cover
- Optional Adjustable Delayed Action / Barrier Free For Handicapped Or Elderly

FEATURES

- Hydraulic Door Closer with Standard Adjustable Back-Check Function
- ANSI A156.4 Grade 1: UL Listed for Fire Door Assemblies
- Universal Application. Non-Handed for Standard, Top Jamb or Parallel Arm Installation
- Non-Sized, 1 thru 6 FACTORY PRESET SIZE 3
- Door Weights: 30-260 lbs (All Models)
- Standard Adjustable Back-Check Function
- Adjustable Closing and Latching Speed by Two Separate Regulating Valves
- Standard Full Plastic Cover with sex bolts and screws (**CR801**)
- Standard Slim Plastic Cover with sex bolts and screws (**CR801S**)
- Available in Alum, Duro, Gold
- Optional Adjustable Delayed Action (**DA**). Preset at the factory for Approximately 20 Seconds, Between 70° and 0°. Delay time easily adjusted Up to 1 Minute.
- Barrier Free (**BF**) Meets ADA regulation. Size 1 thru 6 Engineered with Reduced Spring Power to provide easier opening for Handicapped or Elderly

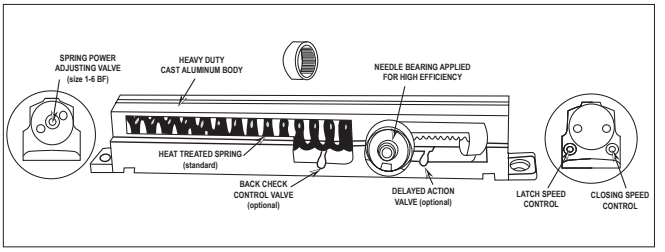
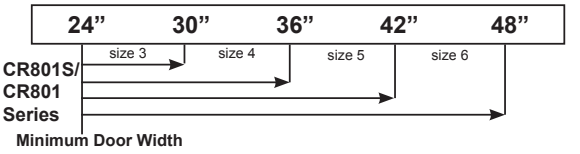


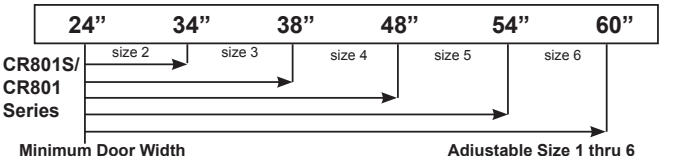
TABLE OF SIZES

Closing power of closers may be adjusted 50%
→ Shows recommended range of door width for closer size.

EXTERIOR (and VESTIBULE) DOOR WIDTH

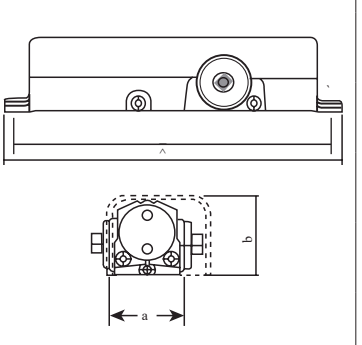


INTERIOR DOOR WIDTH

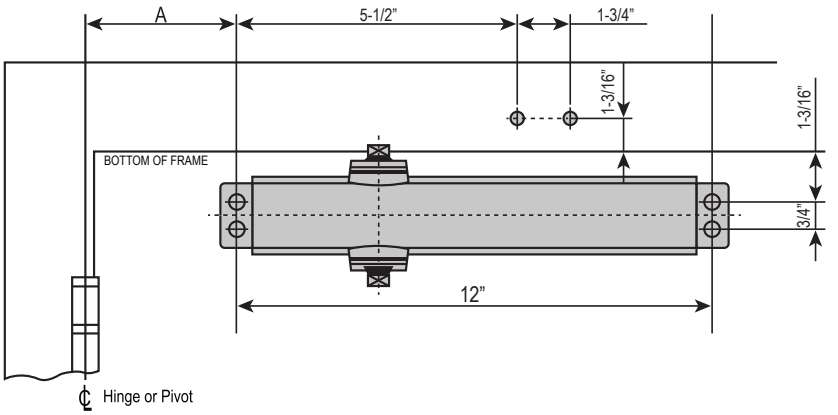


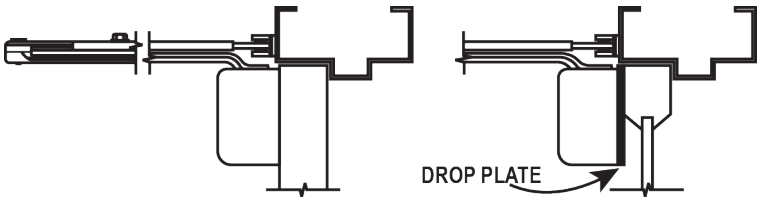
Replacement Hole Pattern Same As Norton 8301 / 8501 and Yale 3301 / 3501

DESCRIPTION	SIZE
A. Length of Closer Body	12 ¾"
B. Horizontal Mounting Holes	12"
C. Vertical Mounting Holes	¾"
D. Height of Closer Body	1 ¼"
E. Projection from Door	2 ⅛"



CR801 / 801S SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

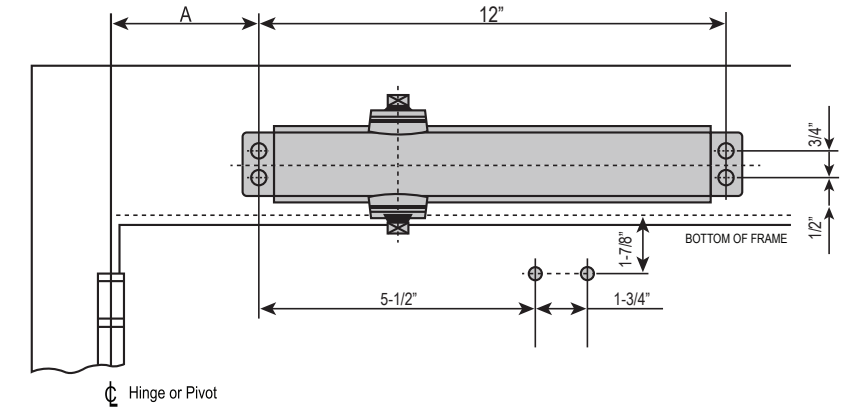


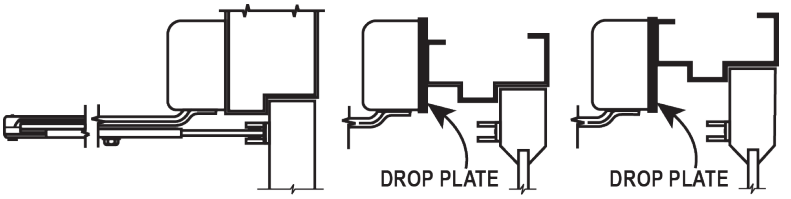


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

OPENING	DIM A
TO 100°	7-1/2" (190.5mm)
TO 130°	6" (152.4mm)
TO 180°	4-1/2" (114.3mm)

CR801 / 801S SERIES : TOP JAMB INSTALLATION (PUSH SIDE)

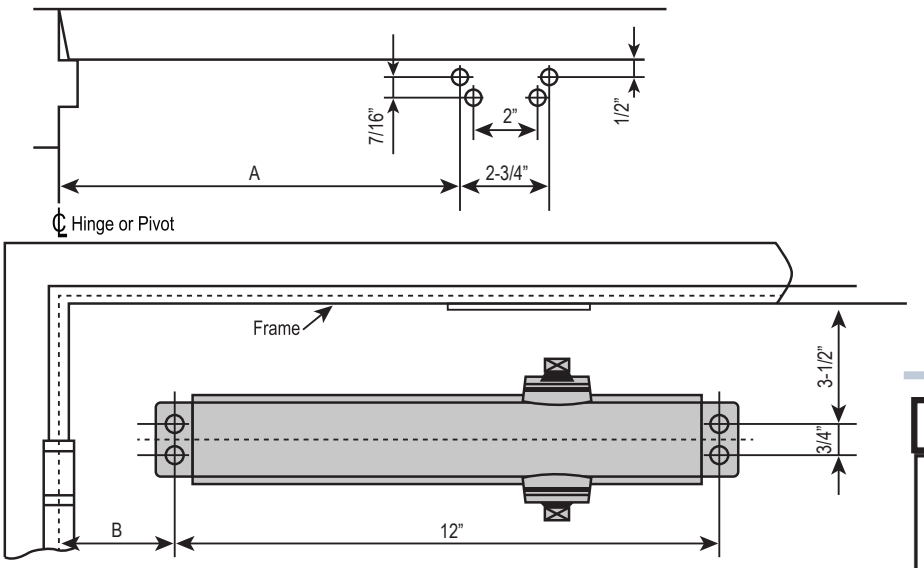




- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

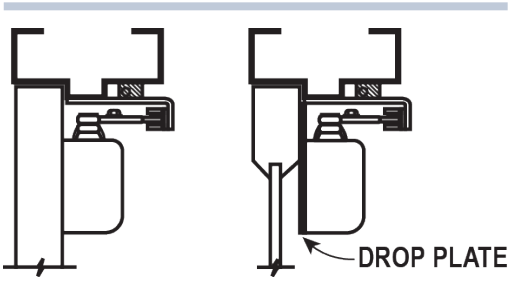
OPENING	DIM A
TO 100°	7-1/2" (190.5mm)
TO 130°	6" (152.4mm)
TO 180°	4-1/2" (114.3mm)

CR801 / 801S SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)



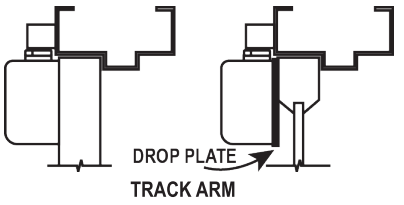
OPENING	DIM A	DIM B
TO 120°	9-1/2" (241.3mm)	3-3/4" (95.25mm)
TO 180°	7" (177.8mm)	1-1/4" (31.75mm)

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

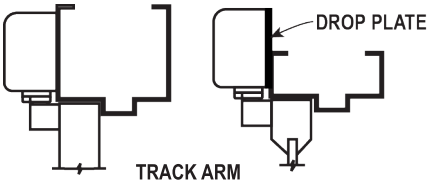


CR801 / 801S SERIES : OPTIONAL INSTALLATION

REGULAR ARM (PULL SIDE)



TOP JAMB (PUSH SIDE)



MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)

OPTIONAL INSTALLATION

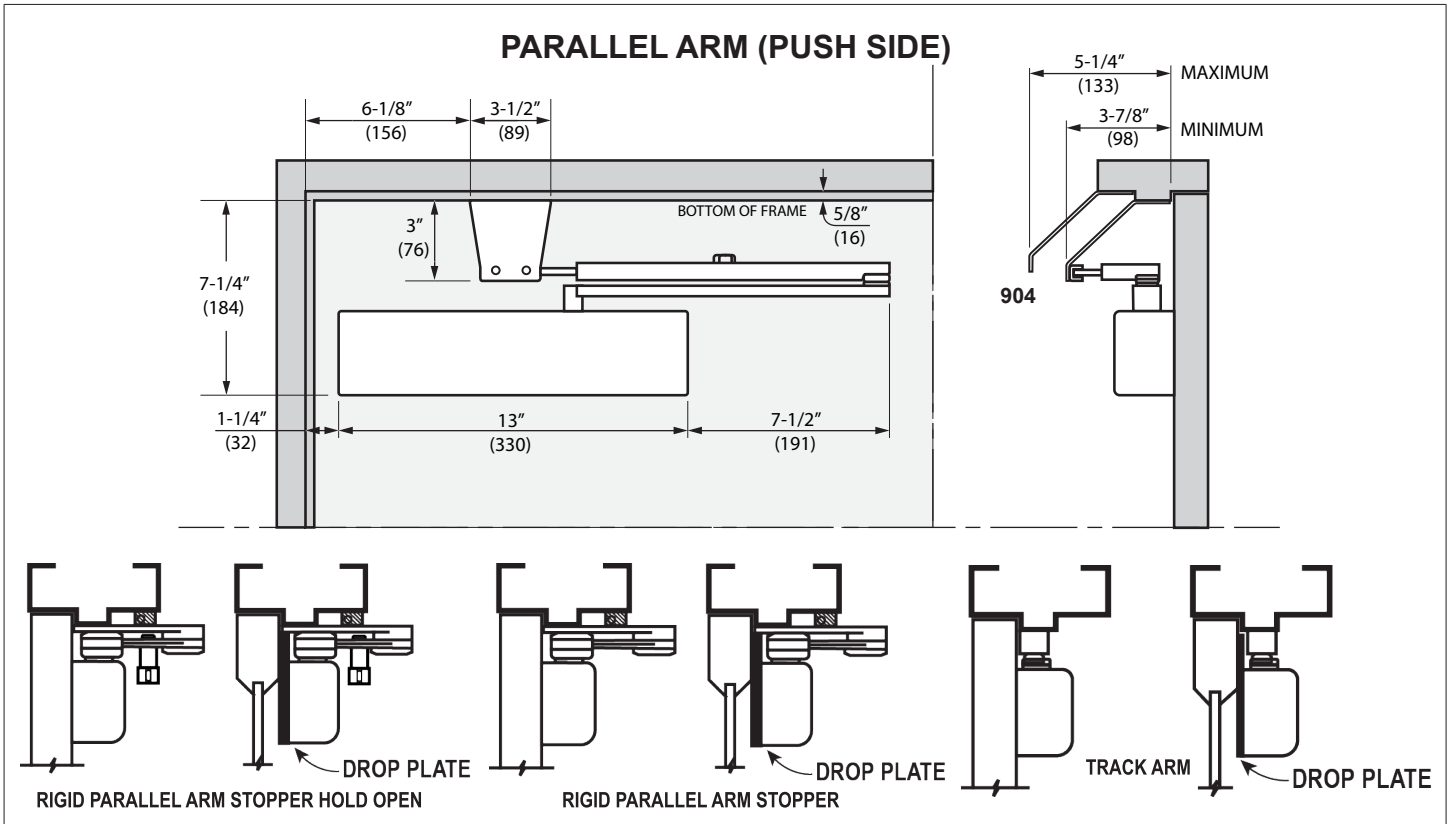
ARMS

- **901 / 902** - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe
- **900EXT** - Extended Long Arm (3" Extension) for Top Jamb with Deep Reveals
- **945AR** - Door Closer Arm (Main and Regular Forearm)
- **TRACK / 900** - Slide Track Arm with Removable Hold-Open

BRACKETS

- **850S -** Slim Flat Drop Plate
- **850W** - Wide Flat Drop Plate
- **850F** - Full Flat Drop Plate

CR801 / 801S SERIES : OPTIONAL INSTALLATION



MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)

OPTIONAL INSTALLATION

ARMS

- **900HOSPRING** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Spring Loaded Stop in Soffit Shoe
- **900SPRING** - Super Rigid Non-Handed Parallel Arm with Spring Loaded Stop in the Soffit Shoe
- **HOSRPS / 900** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Stop in Soffit Shoe
- **SPAS900** - Super Rigid Parallel Arm Stopper, Non-Handed with Stop in Soffit Shoe
- **901 / 902** - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe
- **900EXT** - Extended Long Arm (3" Extension) for Top Jamb with Deep Reveals
- **945AR** - Door Closer Arm (Main and Regular Forearm)
- **TRACK / 900** - Slide Track Arm with Removable Hold-Open

BRACKETS

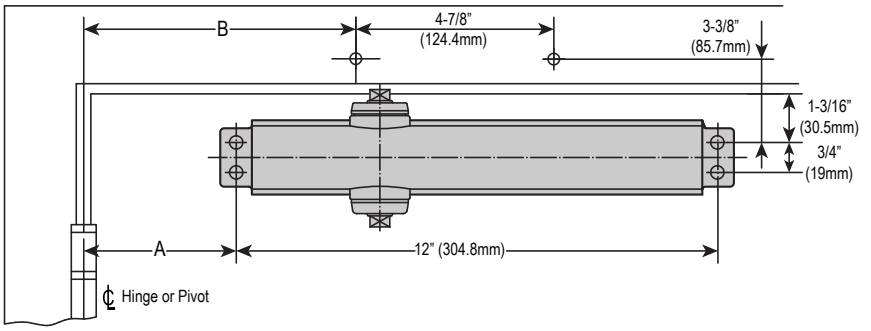
- **904** - Parallel Arm Drop Bracket for Non-Hold Open Parallel Arm Applications to Clear a Surface-Applied Stop / Holder
- **905** - Parallel Arm Bracket
- **850S -** Slim Flat Drop Plate
- **850W** - Wide Flat Drop Plate
- **850F** - Full Flat Drop Plate

RHDSA-SS ARM INSTALLATION

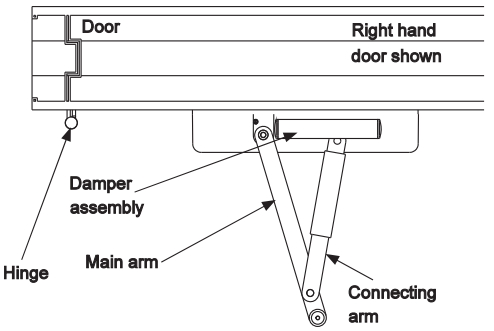
CAL-ROYAL PRODUCTS, INC. U.S.A.

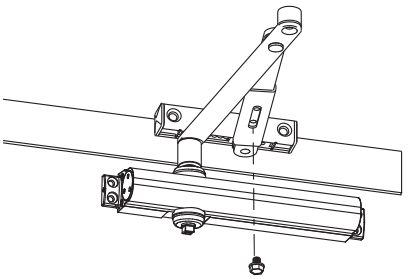
Cushion Heavy Duty Stop Spring Arm with Spring Shoe

CR801 / 801S SERIES : REGULAR ARM INSTALLATION (PULL SIDE)



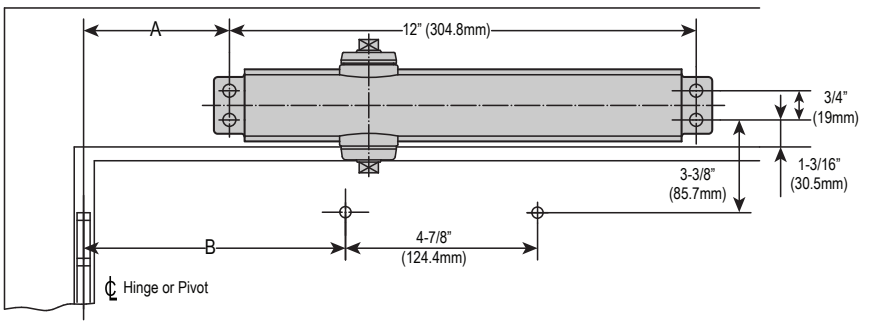
OPENING	DIM A	DIM B
TO 85°	9-3/8" (238.6mm)	12-1/4" (312mm)
TO 90°	8-3/4" (222.6mm)	11-5/8" (296mm)
TO 100°	7-7/8" (200.6mm)	10-13/16" (274mm)
TO 110°	7-1/8" (180.6mm)	10-1/16" (255mm)



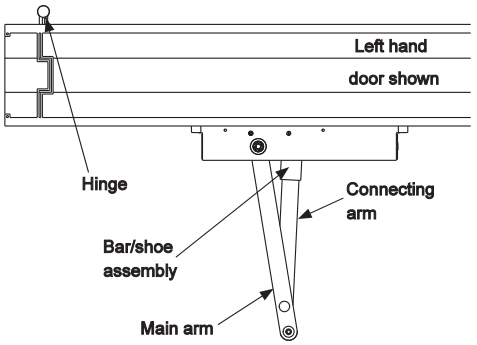


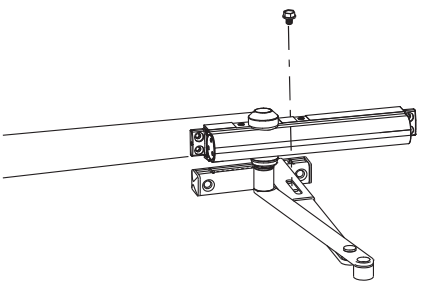
- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

CR801 / 801S SERIES : TOP JAMB INSTALLATION (PUSH SIDE)



OPENING	DIM A	DIM B
TO 85°	8-5/16" (211mm)	11" (279mm)
TO 90°	8" (203mm)	10-11/16" (271mm)
TO 100°	6-7/8" (175mm)	9-9/16" (243mm)
TO 110°	6-1/4" (159mm)	8-15/16" (227mm)

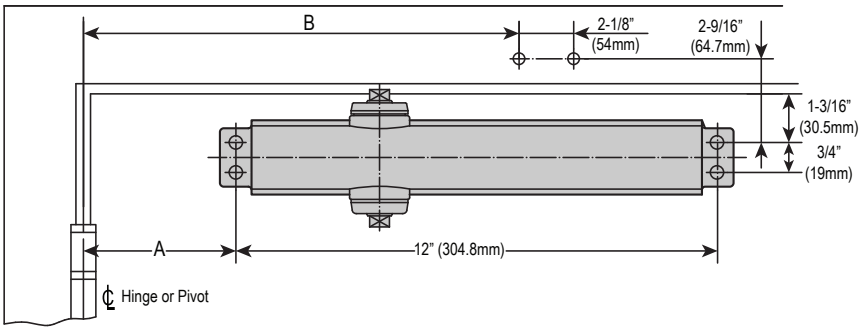




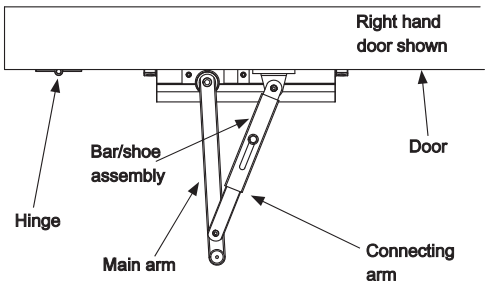
- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

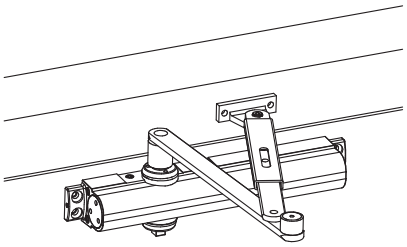
Cushion Heavy Duty Stop Arm

CR801 / 801S SERIES : REGULAR ARM INSTALLATION (PULL SIDE)



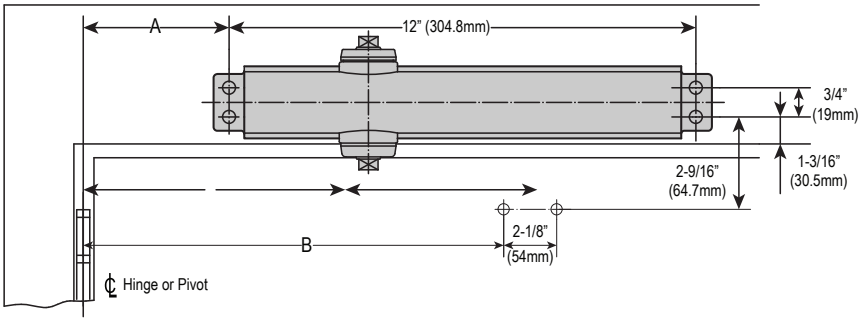
OPENING	DIM A	DIM B
TO 85°	6-1/4" (158.6mm)	14-5/16" (364mm)
TO 90°	5-5/8" (142.6mm)	14" (355mm)
TO 95°	4-13/16" (122.6mm)	13-11/16" (348mm)
TO 100°	5-3/4" (145.6mm)	13-1/16" (332mm)
TO 105°	4-1/4" (107.6mm)	12-3/4" (323mm)
TO 110°	4-1/8" (104.6mm)	12-5/16" (313mm)



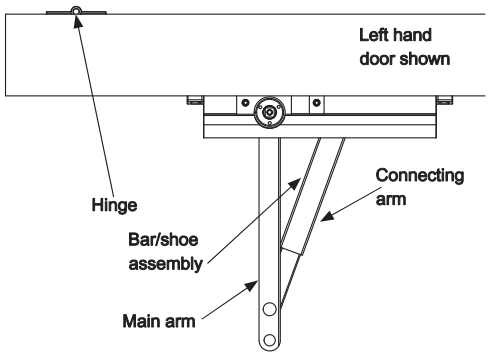


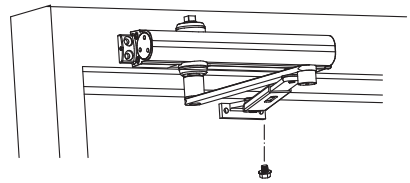
- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

CR801 / 801S SERIES : TOP JAMB INSTALLATION (PUSH SIDE)



OPENING	DIM A	DIM B
TO 85°	6-7/8" (174.6mm)	13-3/8" (339mm)
TO 90°	6-1/8" (155.6mm)	12-13/16" (326mm)
TO 95°	5-7/8" (149.6mm)	12-7/16" (316mm)
TO 100°	5-5/8" (142.6mm)	12" (304mm)
TO 105°	5-3/8" (136.6mm)	11-11/16" (297mm)
TO 110°	5-1/8" (129.6mm)	11-7/16" (291mm)





- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

CR801 / 801S ACCESSORIES

CAL-ROYAL PRODUCTS, INC. U.S.A.



900HOSPRING

- Super rigid parallel arm stopper with hold-open
- Forged Steel Constructions
- Non-handed
- Spring loaded stop in soffit shoe
- Handle controls hold-open function
- Equivalent to ***LCN SPRING H-CUSH ARM***



900SPRING

- Super rigid parallel arm stopper
- Forged Steel Constructions
- Non-handed parallel arm
- Spring loaded stop in the soffit shoe

Equivalent to ***LCN SPRING CUSH ARM***



HOSRPS / 900

- Super rigid parallel arm stopper with hold-open
- Forged Steel Constructions
- Non-handed with stop in soffit shoe
- Handle controls hold-open function
- Equivalent to ***LCN H-CUSH ARM***



SPAS900

- Super rigid parallel arm stopper
- Forged Steel Constructions
- Non-handed with stop in soffit shoe
- Equivalent to ***LCN CUSH-N-STOP ARM***



CR900HDAR

- Non-handed parallel arm
- Forged Steel main arm and forearm
- For potentially abusive installations



901 / 902

- Hold-open arm with parallel bracket
- Forged Steel Constructions
- Non-handed with stop in soffit shoe



RHDSA-SS

- Cushion Heavy Duty Stop Spring Arm with spring shoe
- Provides a spring assisted dead stop function for regular and top jamb applications at 85°, 90°, 100°, and 110°.
- Non-Handed
- 0"-3 ½" (0-89mm) Reveal
- Equivalent to ***Dorma 8600 Series Spring Stop IS Arm***



RHDSTP

- Cushion Heavy Duty Stop Arm
- Provides a cushioned opening function for regular and top jamb applications at 85°, 90°, 95°, 100°, 105°, and 110°.
- Non-Handed
- 0"-3 ½" (0-89mm) Reveal
- Equivalent to ***Dorma 8600 Series Cushion IS Arm, and Norton 1600 Series 7701-CA Arm***



945AR

- Forged Steel main arm and forearm
- Non-handed
- Door closer arm (Main and regular forearm)



900EXT

- Extended long arm (3" extension)
- Non-handed
- For top jamb with deep reveals



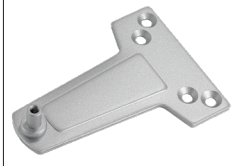
TRACK / 900

- Slide track arm
- With removable hold-open clip
- Non-handed



904

- Parallel arm drop bracket
- Non-handed
- Required for non-hold open parallel arm applications
- To clear a surface-applied stop / holder



905

- Parallel arm bracket
- Non-handed



801SCOV

- Slim Cover
- Non-handed
- Plastic Material



801COV

- Full Cover
- Non-handed
- Plastic Material



850S

- Slim Flat drop bracket
- Non-handed

850W

- Wide Flat drop bracket
- Non-handed

850F

- Full Flat drop bracket
- Non-handed



970138

- Sex bolts for 1 ⅜" doors
- Female part only
- ¼" – 20 (set of 4)
- for Steel Door Application



970

- Sex bolts
- Female part only
- ¼" – 20 (set of 4)
- for Steel Door Application



706

- Thru bolts and grommet nuts
- Set of 4
- for Wood and Aluminum Door Application

300 SERIES

ANSI A156.4 Grade 1, Full Cover Multi-Size, Full Feature Closer
UL Listed, Conforms to Standards UL10C and UBC7-2-1997
BHMA Certified Lifetime Warranty



c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997

LIFETIME WARRANTY

BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.

- Meets and Exceeds ANSI Standard A156.4 Grade 1
- Universal Hole Pattern Offering Versatility and Precision Engineering for New and Retrofit Market
- Multi Size and Adjustable Commercial Door Closer Sizes 1 thru 4 and 3 thru 6 Meeting Barrier Free Applications
- Hydraulic Door Closer with Standard Back-Check
- Full Plastic Cover is Standard Feature
- Optional Adjustable Delayed Action for Handicapped or Elderly

FEATURES

- Factory Tested to Meet or Exceed ANSI Standard A156.4 Grade 1
- **300 PBFCOV**: Non-Sized, Fully Adjustable 1 through 4, (Barrier Free ADA). Full cover. For 30-185 lbs Door Weight
- **300 PCOV**: Non-Sized, Fully Adjustable 3 through 6. Full cover. For 85-260 lbs Door Weight
- Hydraulic Door Closer with Standard Adjustable Back-Check Valve
- Standard Full Plastic Cover (2 ⅝" W x 3" H x 10 1/8" L) **COV / 400**
- Universal Mounting - Standard Size #4 Mounting Holes. (9-1/16")
- Finishes Available: Alum, Dark Bronze (Duro), Gold and US3
- Dual Valve, Closing and Latching Speed Controlled by Two Separate Regulating Valves
- Universal Application, Non-Handed, Designed for All Standard Installations

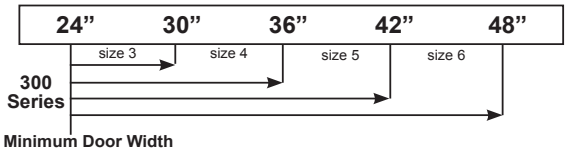
DIMENSION DESCRIPTION	300PBFCOV / 300PCOV
A. Length of Closer Body	9 ¾"
B. Horizontal Mounting Holes	9 1/16"
C. Vertical Mounting Holes	¾"
D. Height of Closer Body	1 ¾"
E. Projection from Door	2 ⅞"

TABLE OF SIZES

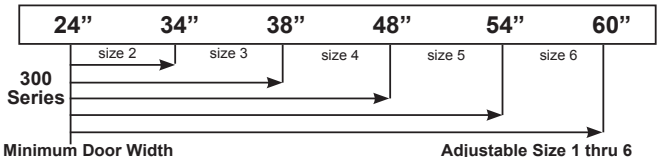
Closing power of closers may be adjusted 50%

→ Shows recommended range of door width for closer size.

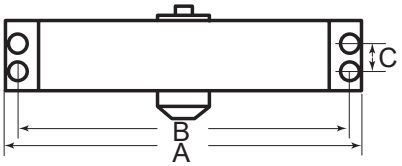
EXTERIOR (and VESTIBULE) DOOR WIDTH



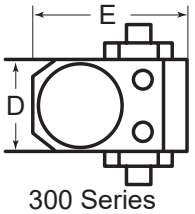
INTERIOR DOOR WIDTH



SPECIFICATIONS

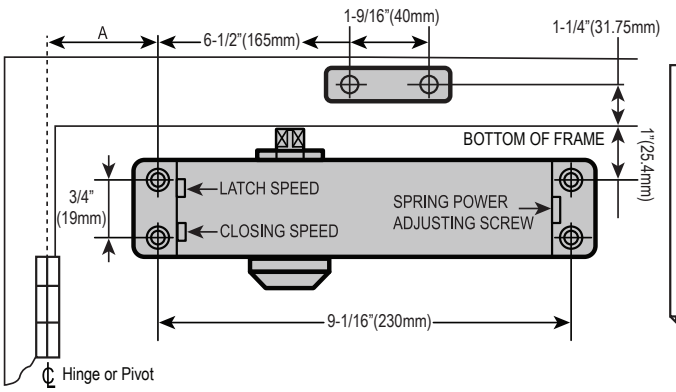


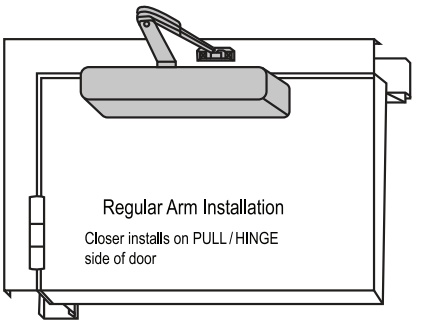
FRONT VIEW



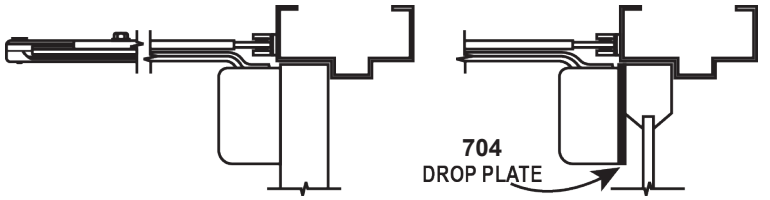
300 Series
END VIEW

300 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)



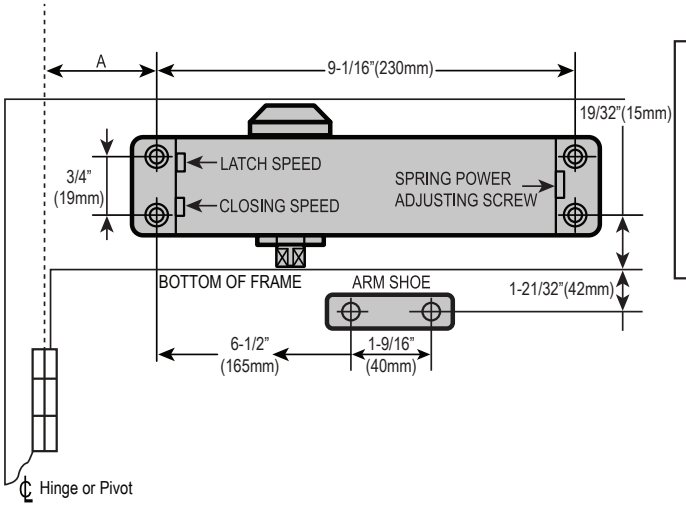


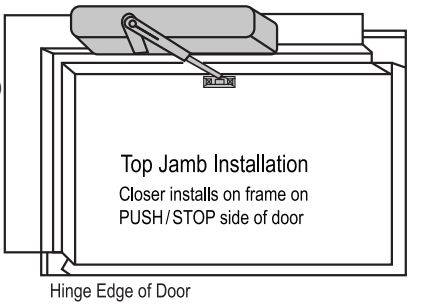
OPENING	DIM A
TO 100°	4-23/32" (120mm)
TO 100°- 120°	4-23/32" (120mm)
OVER 180°	3-5/32" (80mm)



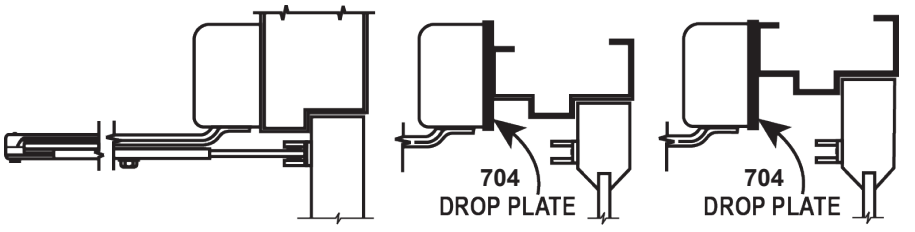
- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

300 SERIES : TOP JAMB INSTALLATION (PUSH SIDE)



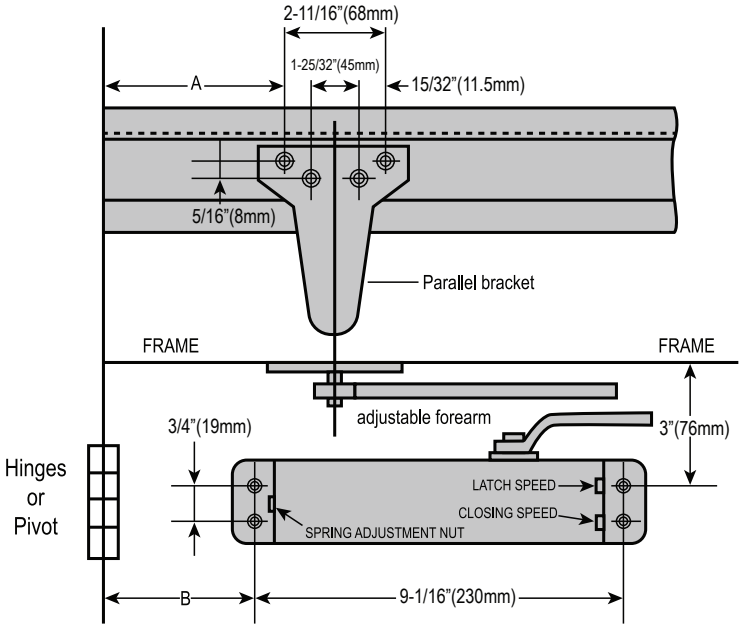


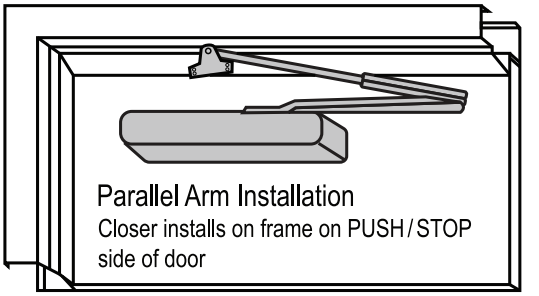
OPENING	DIM A
TO 100°	5-1/2" (140 mm)
100° 120°	5-1/8" (130 mm)
OVER 180°	3-17/22" (90 mm)

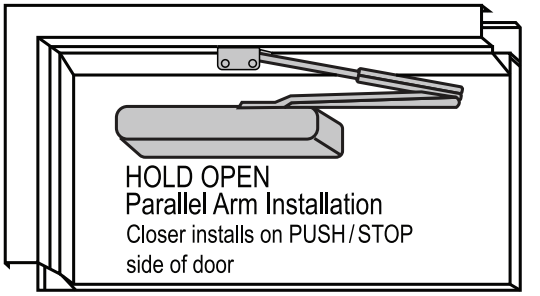


- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

300 SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)

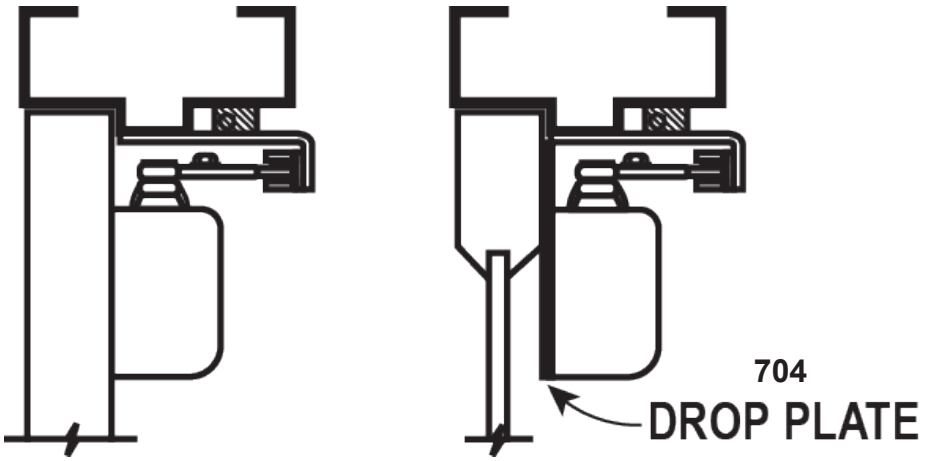






OPENING	DIM A	DIM B
TO 100°	7-7/8" (200 mm)	5-29/32" (150 mm)
120° - 180°	6-11/16" (170 mm)	4-23/32" (120 mm)

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

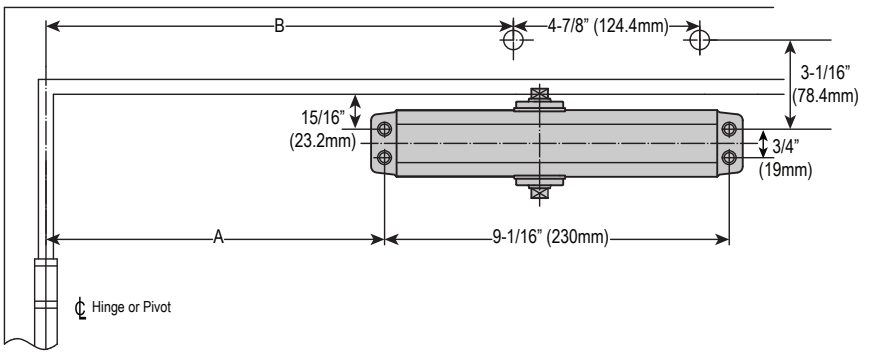


RHDSA-SS ARM INSTALLATION

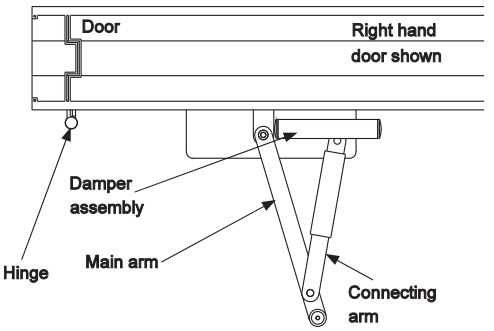
CAL-ROYAL PRODUCTS, INC. U.S.A.

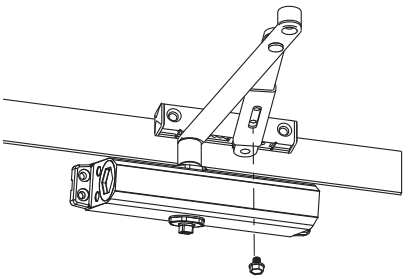
Cushion Heavy Duty Stop Spring Arm with Spring Shoe

300 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)



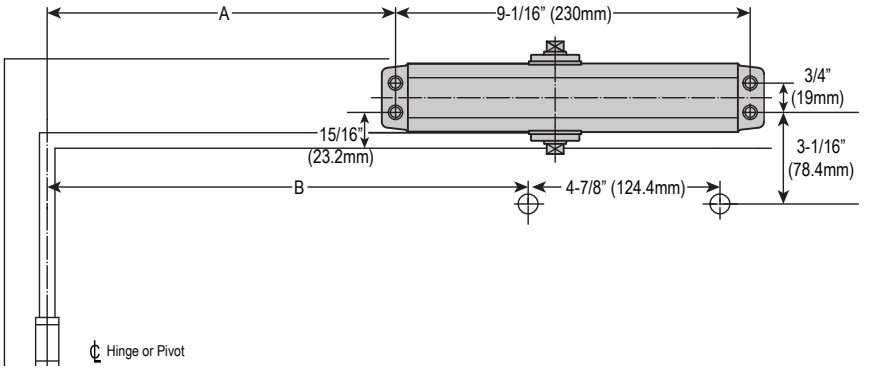
OPENING	DIM A	DIM B
TO 85°	8-7/8" (226mm)	12-1/4" (312mm)
TO 90°	8-1/4" (210mm)	11-5/8" (296mm)
TO 100°	7-3/8" (188mm)	10-13/16" (274mm)
TO 110°	6-5/8" (168mm)	10-1/16" (255mm)



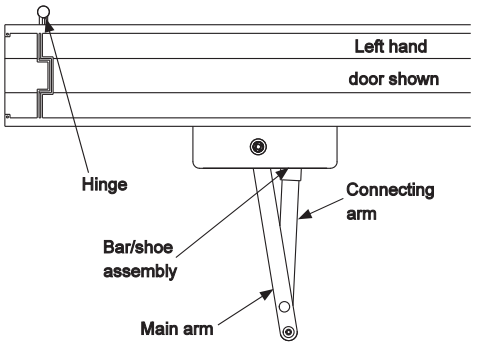


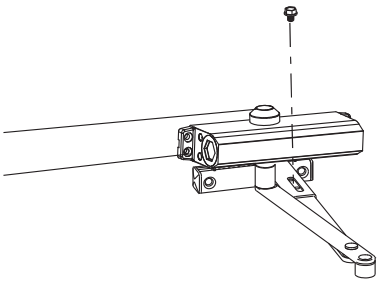
- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

300 SERIES : TOP JAMB INSTALLATION (PUSH SIDE)



OPENING	DIM A	DIM B
TO 85°	7-13/16" (198.4mm)	11" (279mm)
TO 90°	7-1/2" (190.4mm)	10-11/16" (271mm)
TO 100°	6-3/8" (162.4mm)	9-9/16" (243mm)
TO 110°	5-3/4" (146.4mm)	8-15/16" (227mm)

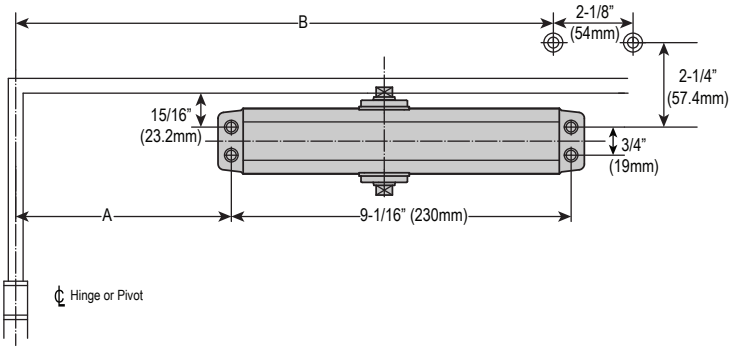




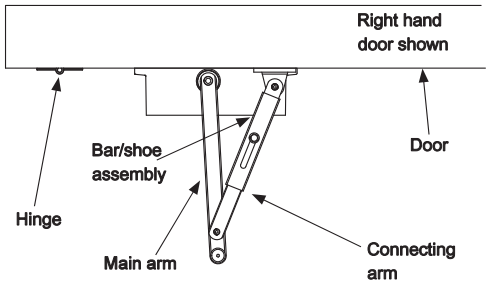
- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

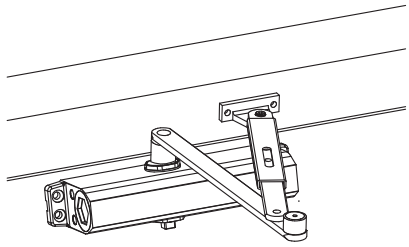
Cushion Heavy Duty Stop Arm

300 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)



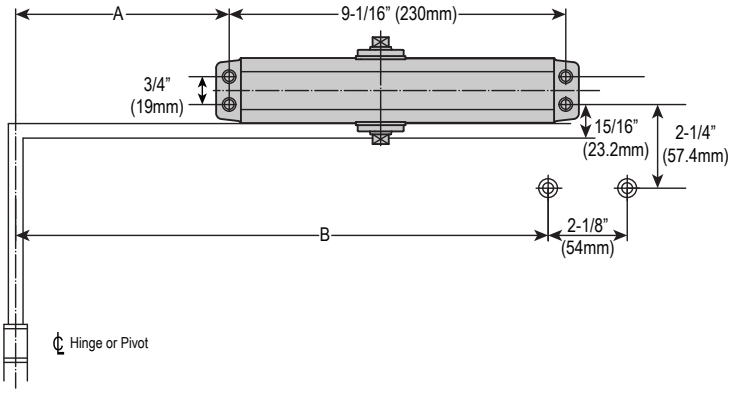
OPENING	DIM A	DIM B
TO 85°	5-3/4" (146mm)	14-5/16" (364mm)
TO 90°	5-1/8" (130mm)	14" (355mm)
TO 95°	4-5/16" (110mm)	13-11/16" (348mm)
TO 100°	5-1/4" (133mm)	13-1/16" (332mm)
TO 105°	3-3/4" (95mm)	12-3/4" (323mm)
TO 110°	3-5/8" (92mm)	12-5/16" (313mm)



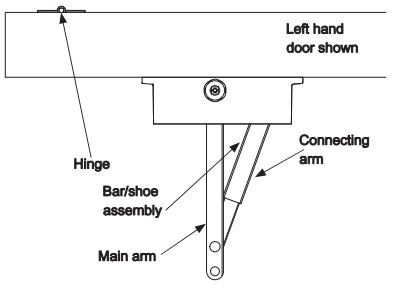


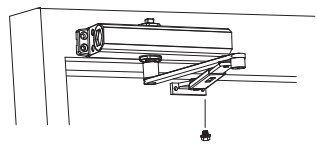
- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

300 SERIES : TOP JAMB INSTALLATION (PUSH SIDE)



OPENING	DIM A	DIM B
TO 85°	6-3/8" (162mm)	13-3/8" (339mm)
TO 90°	5-5/8" (143mm)	12-13/16" (326mm)
TO 95°	5-3/8" (137mm)	12-7/16" (316mm)
TO 100°	5-1/8" (130mm)	12" (304mm)
TO 105°	4-7/8" (124mm)	11-11/16" (297mm)
TO 110°	4-5/8" (117mm)	11-7/16" (291mm)





- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

OPTIONAL INSTALLATION

REGULAR ARM (PULL SIDE)	**MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)** **OPTIONAL INSTALLATION** **ARMS** • **301 / 302** - Hold-Open Arm & Parallel Bracket • **TRACK / 900** - Slide Track Arm with Removable Hold-Open **BRACKETS** • **704 -** Flat Drop Bracket
TOP JAMB (PUSH SIDE)	
PARALLEL ARM (PUSH SIDE)	**MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)** **OPTIONAL INSTALLATION** **ARMS** • **301 / 302** - Hold Open Arm & Parallel Bracket • **TRACK / 900** - Slide Track Arm with Removable Hold-Open **BRACKETS** • **704 -** Flat Drop Bracket • **904** - Parallel Arm Drop Bracket for Non-Hold Open Parallel Arm Applications to Clear a Surface-Applied Stop / Holder • **905** - Parallel Arm Bracket



RHDSA-SS

- Cushion Heavy Duty Stop Spring Arm with spring shoe
- Provides a spring assisted dead stop function for regular and top jamb applications at 85°, 90°, 100°, and 110°.
- Non-Handed
- 0"-3 ½" (0-89mm) Reveal
- Equivalent to ***Dorma 8600 Series Spring Stop IS Arm***



970138

- Sex bolts for 1 ⅜" doors
- Female part only
- ¼" – 20 (set of 4)
- For Steel Door Application



RHDSTP

- Cushion Heavy Duty Stop Arm
- Provides a cushioned opening function for regular and top jamb applications at 85°, 90°, 95°, 100°, 105°, and 110°.
- Non-Handed
- 0"-3 ½" (0-89mm) Reveal
- Equivalent to ***Dorma 8600 Series Cushion IS Arm, and Norton 1600 Series 7701-CA Arm***



970

- Sex bolts
- Female part only
- ¼" – 20 (set of 4)
- For Steel Door Application



301 / 302

- Hold-Open Arm and Parallel Bracket
- Forged Steel Constructions
- Non-handed



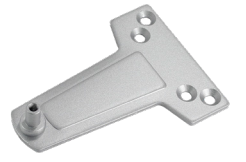
904

- Parallel arm drop bracket
- Non-handed
- Required for non-hold open parallel arm applications
- To clear a surface-applied stop / holder



TRACK / 900

- Slide track arm
- With removable hold-open clip
- Non-handed



905

- Parallel arm bracket
- Non-handed



COV / 400

- Full cover
- Non-handed
- Plastic Material



704

- Flat drop bracket
- Non-handed

500 SERIES

ANSI A156.4 Grade 1, Optional Cover, Full Feature Closer
UL Listed, Conforms to Standards UL10C and UBC7-2-1997
BHMA Certified Lifetime Warranty



c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

- Meets and Exceeds ANSI Standard A156.4 Grade 1
- Universal Hole Pattern Offering Versatility and Precision Engineering for New and Retrofit Market
- Hydraulic Door Closer with Standard Back-Check
- Optional Slim Plastic Cover and Full 32D Cover
- Adjustable Multi Size Commercial Door Closer Sizes 1 thru 5 meeting Barrier Free Applications

FEATURES

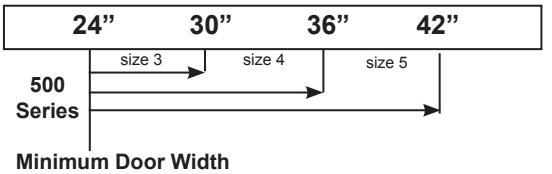
- Factory Tested to Meet or Exceed ANSI Standard A156.4 Grade 1
- **500PBF**: Non-Sized, Fully Adjustable 1 thru 5, (Barrier Free ADA) Interior Doors. For 30-260 lbs Door Weight; ***packed with PA bracket***
- **N500PBF**: Non-Sized, Fully Adjustable 1 thru 5, (Barrier Free ADA) Interior Doors. For 30-260 lbs Door Weight; ***packed with slim plastic cover (500COV), sex bolts (970), and PA bracket (505)***
- Hydraulic Door Closer with Standard Adjustable Back-Check Valve
- Optional Slim Plastic Cover (2" W x 3" H x 10-5/8" L), PART# **500COV**
- Optional Stainless Steel Full Cover, PART# **500COV 32D**
- Universal Mounting - Standard Size #4 Mounting Holes (9 1/16")
- Finishes Available: Alum and Dark Bronze (Duro)
- Dual Valve, Closing and Latching Speed Controlled by Two Separate Regulating Valves

DESCRIPTION	500PBF
A. Length of Closer Body	9 3/4"
B. Horizontal Mounting Holes	9 1/16"
C. Vertical Mounting Holes	3/4"
D. Height of Closer Body	1 3/4"
E. Projection from Door	2 7/8"

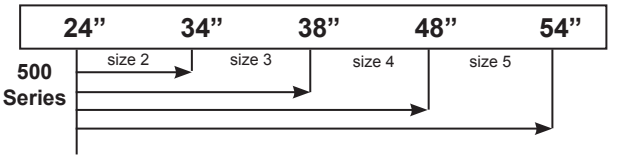
TABLE OF SIZES

Closing power of closers may be adjusted 50%
→ Shows recommended range of door width for closer size.

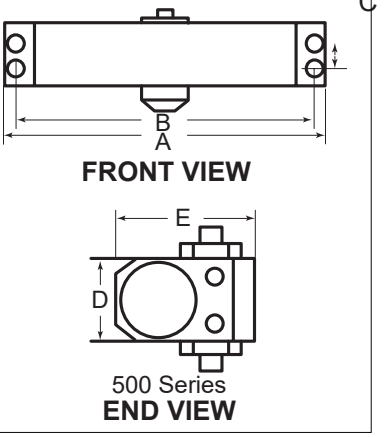
EXTERIOR (and VESTIBULE) DOOR WIDTH



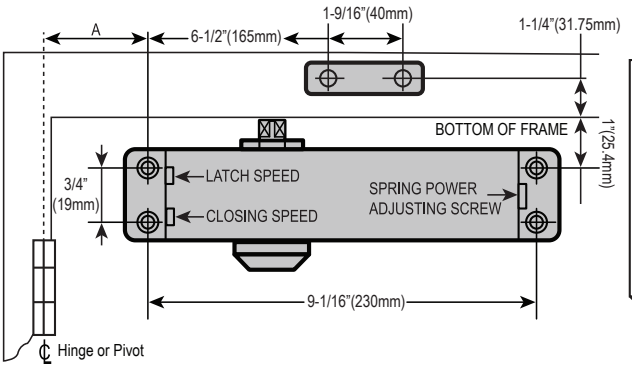
INTERIOR DOOR WIDTH

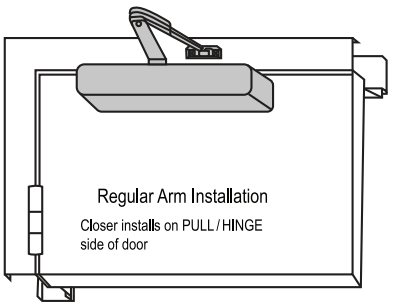


SPECIFICATIONS

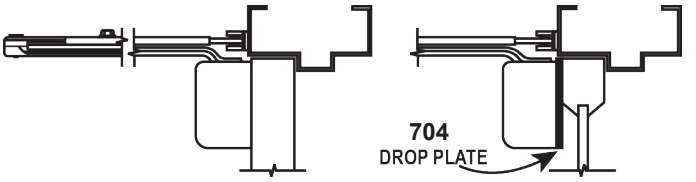


500 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)



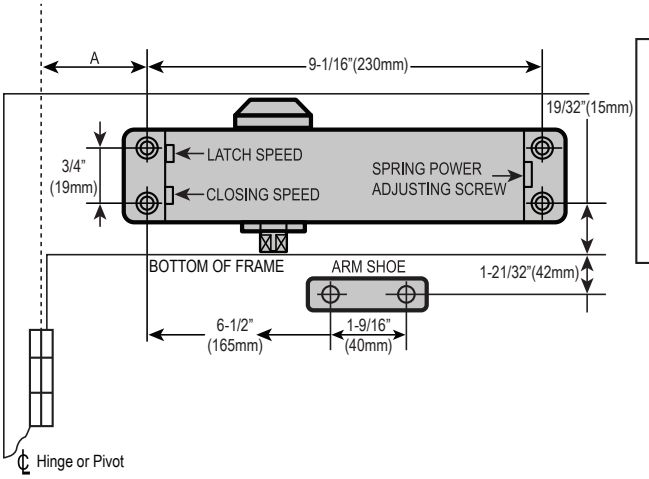


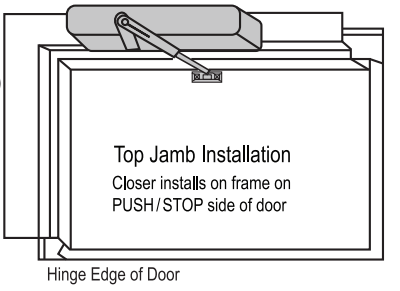
OPENING	DIM A
TO 100°	4-23/32" (120 mm)
100° - 120°	4-23/32" (120 mm)
OVER 180°	5-5/32" (80 mm)



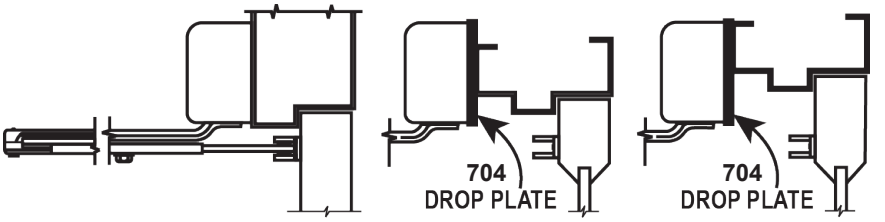
- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

500 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)



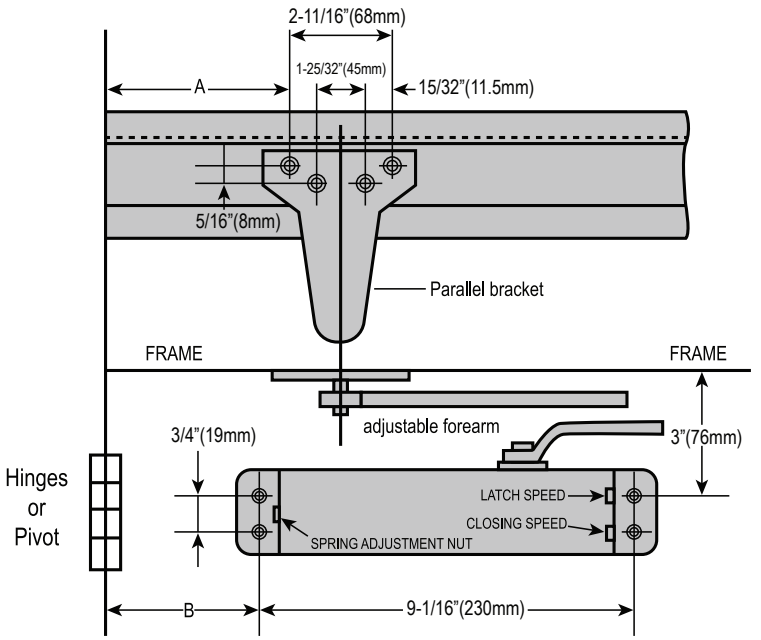


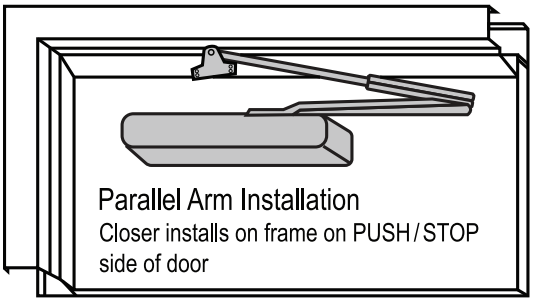
OPENING	DIM A
TO 100°	5-1/2" (140 mm)
100° - 120°	5-1/8" (130 mm)
OVER 180°	3-17/32" (90 mm)



- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

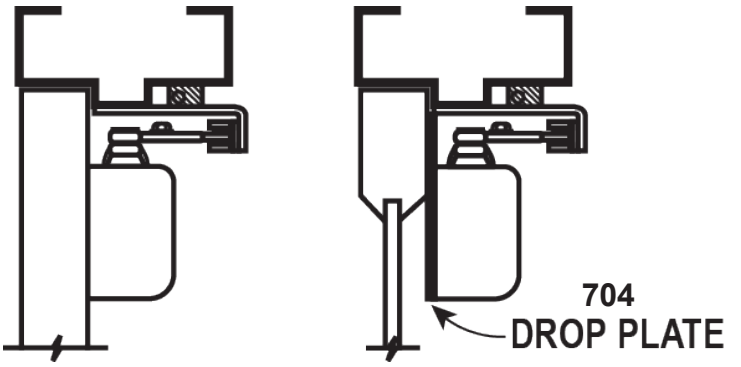
500 SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)





OPENING	DIM A	DIM B
TO 100°	7-7/8" (200 mm)	5-29/32" (150 mm)
120° - 180°	6-11/16" (170 mm)	4-23/32" (120 mm)

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

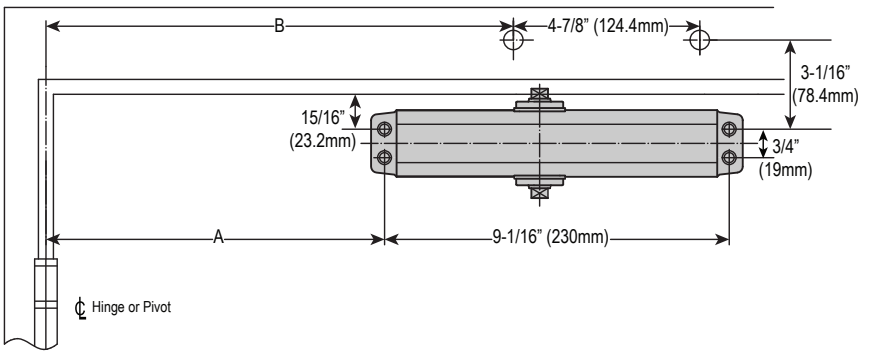


RHDSA-SS ARM INSTALLATION

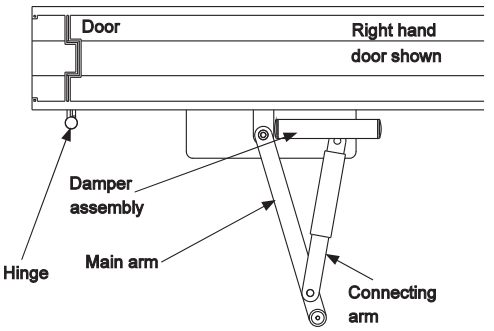
CAL-ROYAL PRODUCTS, INC. U.S.A.

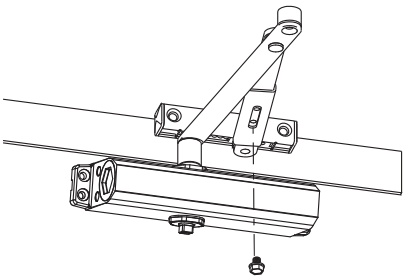
Cushion Heavy Duty Stop Spring Arm with Spring Shoe

500 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)



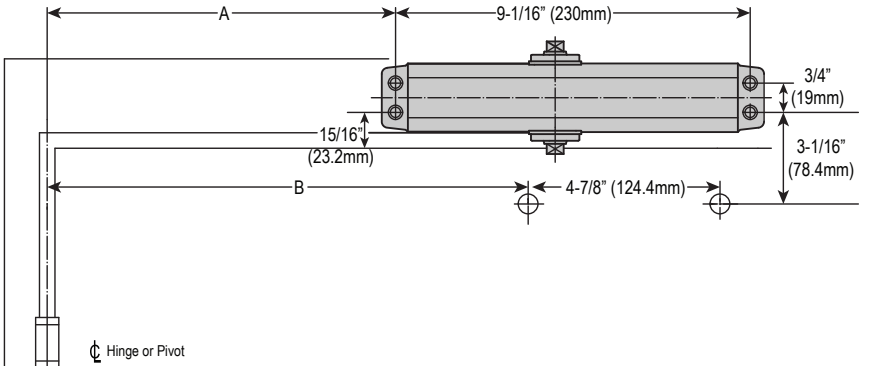
OPENING	DIM A	DIM B
TO 85°	8-7/8" (226mm)	12-1/4" (312mm)
TO 90°	8-1/4" (210mm)	11-5/8" (296mm)
TO 100°	7-3/8" (188mm)	10-13/16" (274mm)
TO 110°	6-5/8" (168mm)	10-1/16" (255mm)



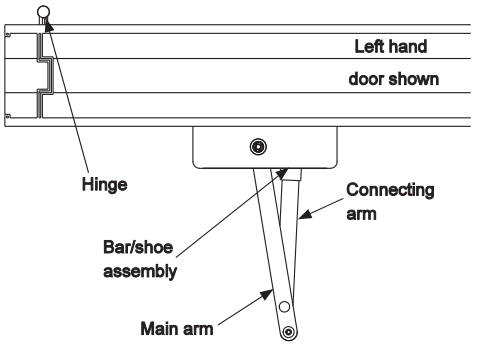


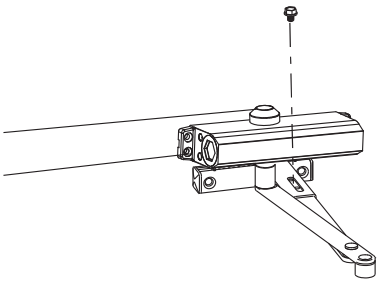
- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

500 SERIES : TOP JAMB INSTALLATION (PUSH SIDE)



OPENING	DIM A	DIM B
TO 85°	7-13/16" (198.4mm)	11" (279mm)
TO 90°	7-1/2" (190.4mm)	10-11/16" (271mm)
TO 100°	6-3/8" (162.4mm)	9-9/16" (243mm)
TO 110°	5-3/4" (146.4mm)	8-15/16" (227mm)

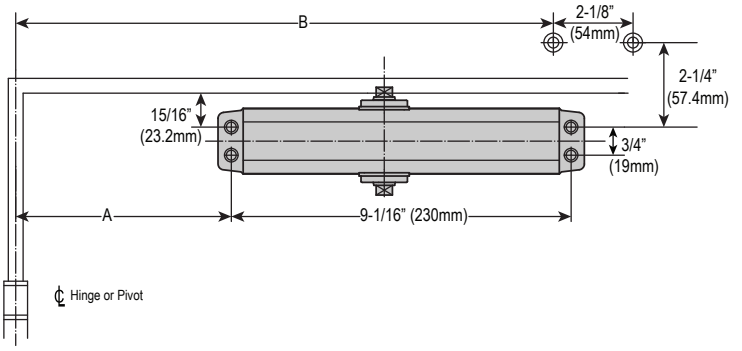




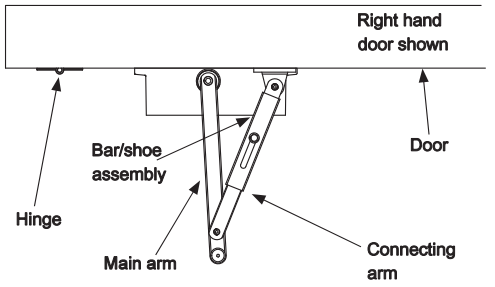
- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

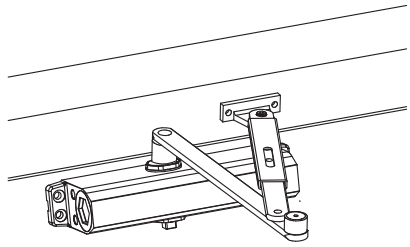
Cushion Heavy Duty Stop Arm

500 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)



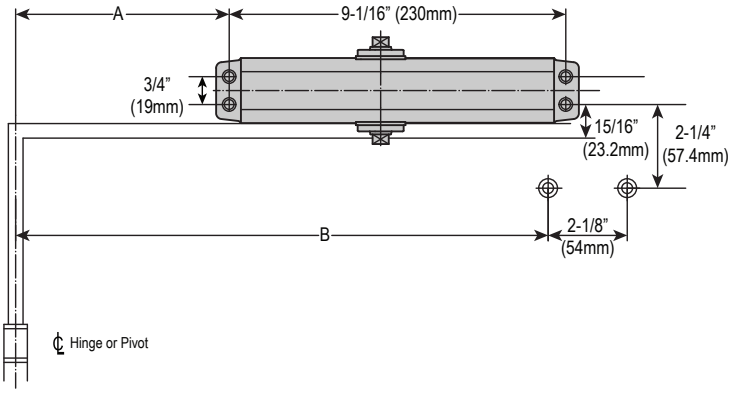
OPENING	DIM A	DIM B
TO 85°	5-3/4" (146mm)	14-5/16" (364mm)
TO 90°	5-1/8" (130mm)	14" (355mm)
TO 95°	4-5/16" (110mm)	13-11/16" (348mm)
TO 100°	5-1/4" (133mm)	13-1/16" (332mm)
TO 105°	3-3/4" (95mm)	12-3/4" (323mm)
TO 110°	3-5/8" (92mm)	12-5/16" (313mm)



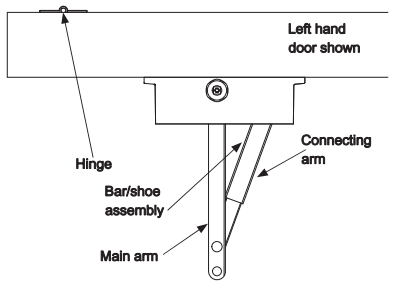


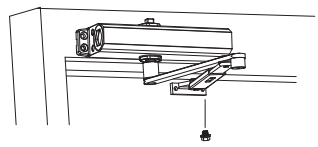
- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

500 SERIES : TOP JAMB INSTALLATION (PUSH SIDE)



OPENING	DIM A	DIM B
TO 85°	6-3/8" (162mm)	13-3/8" (339mm)
TO 90°	5-5/8" (143mm)	12-13/16" (326mm)
TO 95°	5-3/8" (137mm)	12-7/16" (316mm)
TO 100°	5-1/8" (130mm)	12" (304mm)
TO 105°	4-7/8" (124mm)	11-11/16" (297mm)
TO 110°	4-5/8" (117mm)	11-7/16" (291mm)





- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

OPTIONAL INSTALLATION

REGULAR ARM (PULL SIDE)	**MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)** **OPTIONAL INSTALLATION ARMS** • **501 / 502**- Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe **BRACKETS** • **704** - Flat Drop Bracket
TOP JAMB (PUSH SIDE)	
PARALLEL ARM (PUSH SIDE)	**MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)** **OPTIONAL INSTALLATION ARMS** • **501 / 502** - Hold-Open Arm & Parallel Bracket, Non-Handed with Stop in Soffit Shoe **BRACKETS** • **704** - Flat Drop Plate • **904** - Parallel Arm Drop Bracket for Non-Hold Open Parallel Arm Applications to Clear a Surface-Applied Stop / Holder • **505** - Parallel Arm Bracket



RHDSA-SS

- Cushion Heavy Duty Stop Spring Arm with spring shoe
- Provides a spring assisted dead stop function for regular and top jamb applications at 85°, 90°, 100°, and 110°.
- Non-Handed
- 0"-3 ½" (0-89mm) Reveal
- Equivalent to: ***Dorma 8600 Series Spring Stop IS Arm***



RHDSTP

- Cushion Heavy Duty Stop Arm
- Provides a cushioned opening function for regular and top jamb applications at 85°, 90°, 95°, 100°, 105°, and 110°.
- Non-Handed
- 0"-3 ½" (0-89mm) Reveal
- Equivalent to: ***Dorma 8600 Series Cushion IS Arm, and Norton 1600 Series 7701-CA Arm***



501 / 502

- Hold-Open Arm and Parallel Bracket
- Forged Steel Constructions
- Non-handed



500COV

- Slim cover
- Non-handed
- Plastic material



704

- Flat drop bracket
- Non-handed



500COV 32D

- Full cover
- Non-handed
- Stainless Steel material



970138

- Sex bolts for 1 ⅜" doors
- Female part only
- ¼" – 20 (set of 4)
- For Steel Door Application



970

- Sex bolts
- Female part only
- ¼" – 20 (set of 4)
- For Steel Door Application



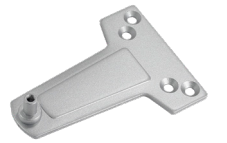
706

- Thru bolts and grommet nuts
- Set of 4
- for Wood & Aluminum Door Application



904

- Parallel arm drop bracket
- Non-handed
- Required for non-hold open parallel arm applications
- To clear a surface-applied stop / holder



505

- Parallel arm bracket
- Non-handed

700 SERIES

ANSI A156.4 Grade 1, Optional Slim Cover, Sized Door Closer
UL Listed, Conforms to Standards UL10C and UBC7-2-1997
Lifetime Warranty



c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

LIFETIME WARRANTY

- Meets and Exceeds ANSI Standard A156.4 Grade 1
- Universal Hole Pattern Offering Versatility and Precision Engineering for New and Retrofit Market
- Choice of Regular, Parallel, or Hold-Open Arms for All Standard Applications
- Sized Door Closer. Sizes 2, 3, 4 and 5
- Hydraulic Door Closer with Optional Back-Check
- Optional Slim Plastic Cover

FEATURES

- Hydraulic Door Closer with Dual Valve, Closing and Latching Speed Controlled by Two Separate Regulating Valves
- Universal Application, Non-Handed, Designed for All Standard Installations
- Reinforced Type Adjustable Tube Arm
- Rack and Pinion Operation Contained in a High Tensile Precision Cast Aluminum Housing for the Highest Quality
- High Quality Hydraulic Fluid for High Lubricity and Constant Lubrication
- The Streamlined Design Permits Installation on Most Commercial and Residential Applications without Adaptors
- Sized Door Closer. **720** Size 2, **730** Size 3, **740** Size 4 and **750** Size 5

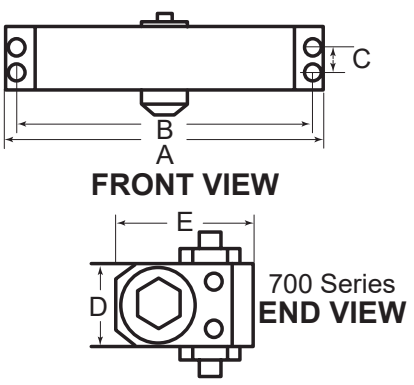
RECOMMENDED CLOSER SIZES FOR INTERIOR & EXTERIOR

REGULAR CLOSERS							CLOSERS WITH PARALLEL ARM ADAPTER	
MODEL NO. REGULAR	DOOR WEIGHT (POUNDS) ALL MODELS	MODEL NO. HOLD OPEN ACCESSORIES	TYPE OF DOOR	MAXIMUM SIZE OF DOOR			MAXIMUM SIZE OF DOOR	
				INTERIOR	EXTERIOR INSWINGING	INTERIOR OUTSWINGING	INTERIOR	EXTERIOR INSWINGING
720	55-100	901/902	Heavy screen doors or medium weight interior door of wood or metal	3'0"	----	----	2'6"	----
730	88-143	901/902	Light exterior doors and interior doors of wood or metal	3'6"	2'6"	3'0"	3'0"	2'6"
740	120-187	901/902	Exterior doors and heavy interior doors of wood or metal	4'0"	3'0"	3'6"	3'6"	3'0"
750	176-265	901/902	Heavy exterior doors and heavy interior doors	4'6"	3'6"	4'0"	4'0"	3'6"

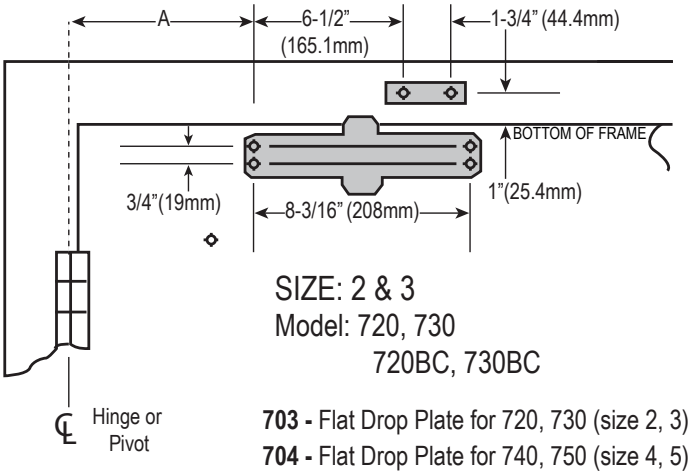
NOTE: Doors of unusual height or weight, or doors subject to severe wind or draft conditions, or abusive usage, require the next larger model closer than the schedule.

SPECIFICATIONS

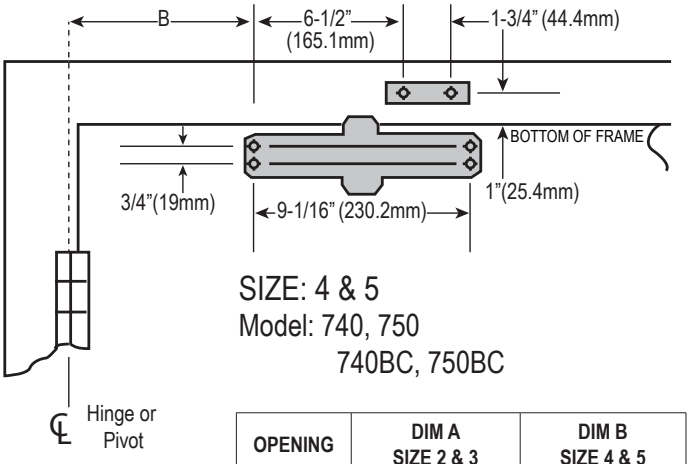
DESCRIPTION	SIZE 2	SIZE 3	SIZE 4	SIZE 5
A. Length of Closer Body	8 7/8"	8 7/8"	9 3/4"	9 3/4"
B. Horizontal Mounting Holes	8 3/16"	8 3/16"	9 1/16"	9 1/16"
C. Vertical Mounting Holes	3/4"	3/4"	3/4"	3/4"
D. Height of Closer Body	1 3/4"	1 3/4"	1 3/4"	1 3/4"
E. Projection from Door	2 1/8"	2 1/8"	2 7/8"	2 7/8"



700 SERIES: REGULAR ARM INSTALLATION (PULL SIDE)

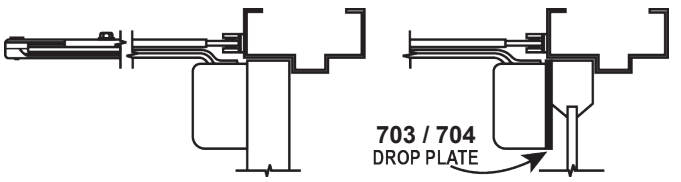


SIZE: 2 & 3
Model: 720, 730
720BC, 730BC



SIZE: 4 & 5
Model: 740, 750
740BC, 750BC

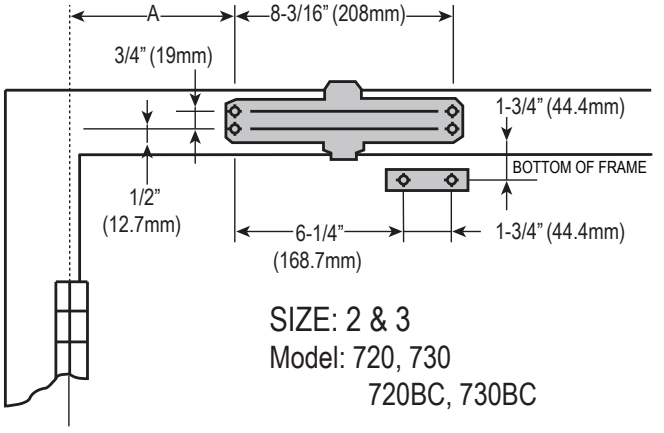
703 - Flat Drop Plate for 720, 730 (size 2, 3)
704 - Flat Drop Plate for 740, 750 (size 4, 5)



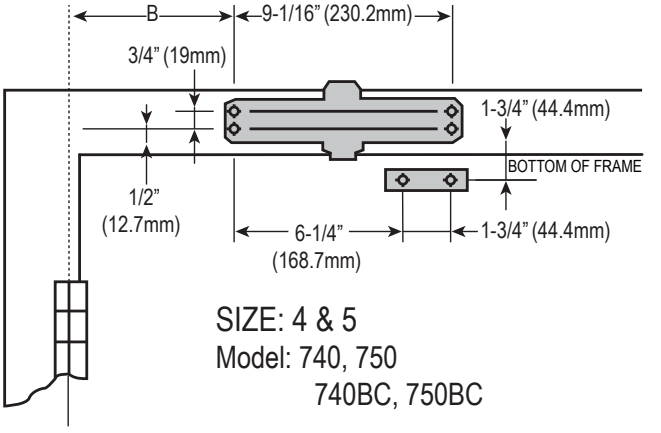
OPENING	DIM A SIZE 2 & 3	DIM B SIZE 4 & 5
120° - 180°	6-1/2" (165.1 mm)	6-1/2" (165.1 mm)
OVER 180°	4" (101.6 mm)	4" (101.6 mm)

- RIGHT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

TOP JAMB INSTALLATION (PUSH SIDE)

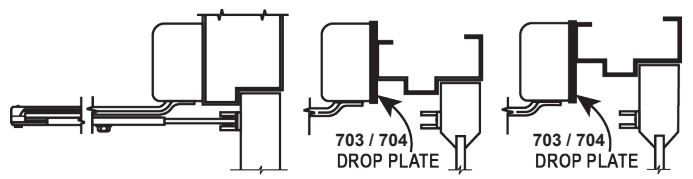


SIZE: 2 & 3
Model: 720, 730
720BC, 730BC



SIZE: 4 & 5
Model: 740, 750
740BC, 750BC

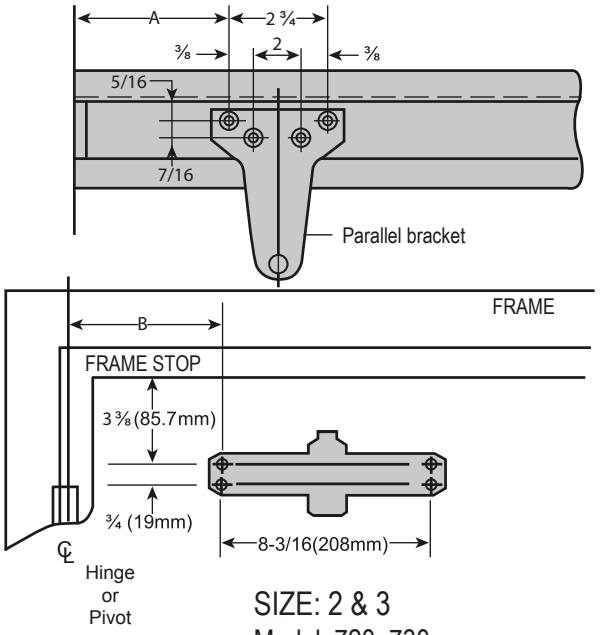
703 - Flat Drop Plate for 720, 730 (size 2, 3)
704 - Flat Drop Plate for 740, 750 (size 4, 5)



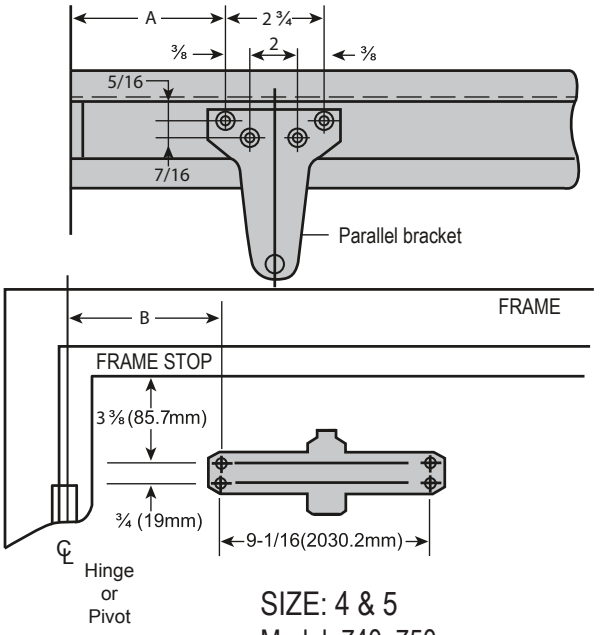
OPENING	DIM A SIZE 2 & 3	DIM B SIZE 4 & 5
120° - 180°	6-1/2" (165.1 mm)	6-1/2" (165.1 mm)
OVER 180°	4" (101.6 mm)	4" (101.6 mm)

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

700 SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)



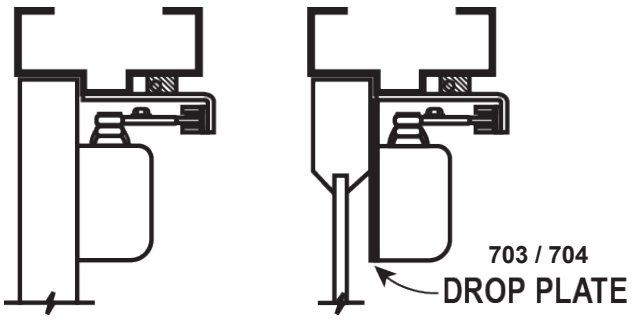
SIZE: 2 & 3
Model: 720, 730
720BC, 730BC



SIZE: 4 & 5
Model: 740, 750
740BC, 750BC

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

OPENING	DIM A SIZE 2 & 3	DIM B SIZE 2 & 3	DIM A SIZE 4 & 5	DIM B SIZE 4 & 5
120° - 180°	8-5/8" (219 mm)	7-13/16" (198.4 mm)	8-5/8" (219 mm)	6-15/16" (176.2 mm)
OVER 180°	6-9/16" (166.7 mm)	5-5/8" (142.9 mm)	6-9/16" (166.7 mm)	5-3/16" (131.8 mm)



703 - Flat Drop Plate for 720, 730 (size 2, 3)
704 - Flat Drop Plate for 740, 750 (size 4, 5)

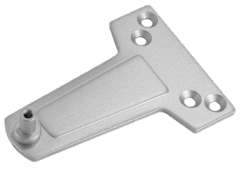
OPTIONAL INSTALLATION

REGULAR ARM (PULL SIDE)	**MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)** **OPTIONAL INSTALLATION ARMS** • **901 / 902** - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe • **745AR** - Door Closer Arm (Main and Regular Forearm) **BRACKETS** • **703 -** Flat Drop Plate for 720, 730 (size 2, 3) • **704 -** Flat Drop Plate for 740, 750 (size 4, 5)
TOP JAMB (PUSH SIDE)	
PARALLEL ARM (PUSH SIDE)	**MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)** **OPTIONAL INSTALLATION ARMS** • **901 / 902** - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe • **745AR** - Door Closer Arm (Main and Regular Forearm) **BRACKETS** • **905 -** Parallel Arm Bracket • **703 -** Flat Drop Plate for 720, 730 (size 2, 3) • **704 -** Flat Drop Plate for 740, 750 (size 4, 5)



COV700

- Slim plastic cover
- Non-handed
- Fits all sizes
- Shipped separately



905

- Parallel arm bracket
- Non-handed



745AR

- Forged Steel main arm and forearm
- Non-handed
- Door closer arm (Main and regular forearm)



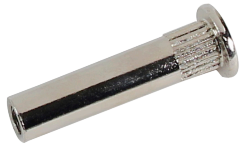
901 / 902

- Hold-open arm with parallel bracket
- Forged Steel Constructions
- Non-handed with stop in soffit shoe



970138

- Sex bolts for 1 ⅜" doors
- Female part only
- ¼" – 20 (set of 4)
- For Steel Door Application



970

- Sex bolts
- Female part only
- ¼" – 20 (set of 4)
- For Steel Door Application



706

- Thru bolts and grommet nuts
- Set of 4
- For Wood and Aluminum Door Application



703

- Flat drop bracket
- Non-handed



704

- Flat drop bracket
- Non-handed

400 SERIES

ANSI A156.4 Grade 2, Optional Full Cover, Sized Door Closer
UL Listed Conforms to standards UL10C and UBC7-2-1997
5 Year Warranty



c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

5-YEAR WARRANTY

- Standard Duty Commercial Hydraulic Door Closer Precision Engineering for New Construction
- Meets and Exceeds ANSI Standard A156.4 Grade 2
- Sized Door Closer, Sizes 2, 3 and 4
- for All Standard Applications
- Optional Full Cover
- Optional Back-Check
- Heavy Duty Rack and Pinion

FEATURES

- Sized Hydraulic Door Closers. **420-P** Size 2, **430-P** Size 3, **SM430-P** Size 3, and **440-P** Size 4
- Dual Valve, Closing and Latching Speed Controlled by Two Separate Regulating Valves
- Universal Application, Non-Handed, Designed for All Standard Installations
- Reinforced Type Adjustable Tube Arm
- Rack and Pinion Operated Contained in a High Tensile Precision Cast Aluminum Housing for the Highest Quality
- The Streamlined Design Permits Installation on Most Commercial and Residential Applications without Adaptors

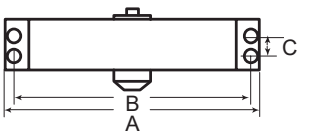
RECOMMENDED CLOSER SIZES FOR INTERIOR & EXTERIOR

REGULAR CLOSERS							CLOSERS WITH PARALLEL ARM ADAPTER	
MODEL NO.	DOOR WEIGHT (POUNDS) ALL MODELS	MODEL NO.	TYPE OF DOOR	MAXIMUM SIZE OF DOOR			MAXIMUM SIZE OF DOOR	
REGULAR		HOLD OPEN ACCESSORIES		INTERIOR	EXTERIOR INSWINGING	INTERIOR OUTSWINGING	INTERIOR	EXTERIOR INSWINGING
420P	55-100	301/302	Heavy screen doors or medium weight interior door of wood or metal	3'0"	----	----	2'6"	----
430P	88-143	301/302	Light exterior doors and interior doors of wood or metal	3'6"	2'6"	3'0"	3'0"	2'6"
440P/ SM430-P	120-187	301/302	Exterior doors and heavy interior doors of wood or metal	4'0"	3'0"	3'6"	3'6"	3'0"

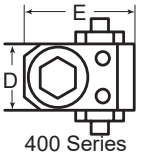
NOTE: Doors of unusual height or weight, or doors subject to severe wind or draft conditions, or abusive usage, require the next larger model closer than the schedule.

SPECIFICATIONS

DESCRIPTION	420-P	SM 430-P	430-P	440-P
	SIZE 2	SIZE 3	SIZE 3	SIZE 4
A. Length of Closer Body	7 ¼"	7 ⅛"	8 ¾"	8 ¾"
B. Horizontal Mounting Holes	6 ⅝"	6 ½ "	8 3⁄16"	8 3⁄16"
C. Vertical Mounting Holes	¾"	¾"	¾"	¾"
D. Height of Closer Body	1 ¾"	1 ¾"	1 ¾"	1 ¾"
E. Projection from Door	2 ⅝"	2 15⁄32"	2 ⅞"	2 ⅞"

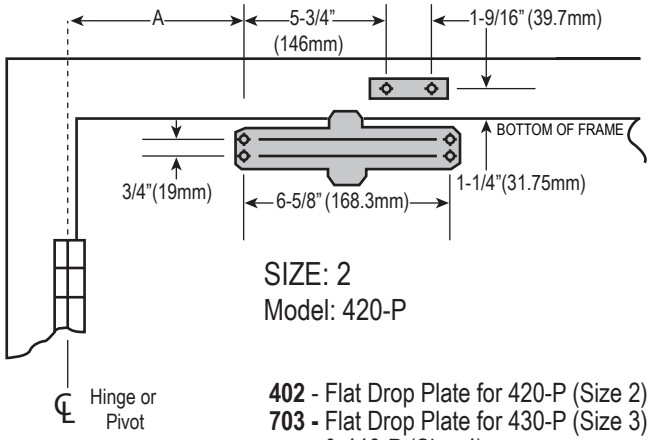


FRONT VIEW

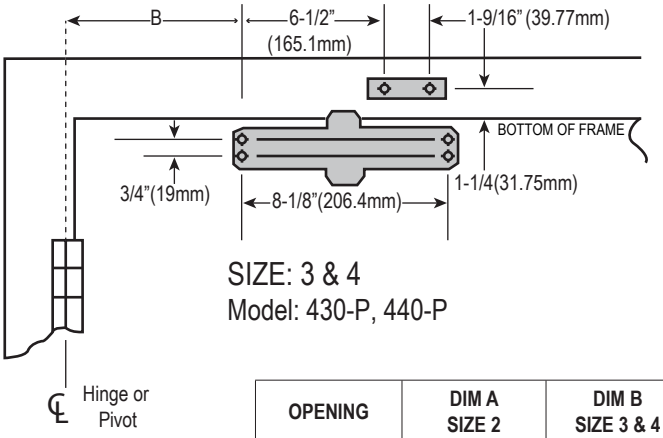


400 Series
END VIEW

400 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

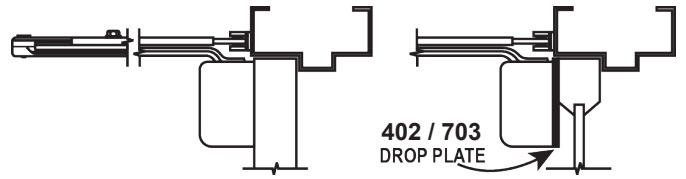


SIZE: 2
Model: 420-P



SIZE: 3 & 4
Model: 430-P, 440-P

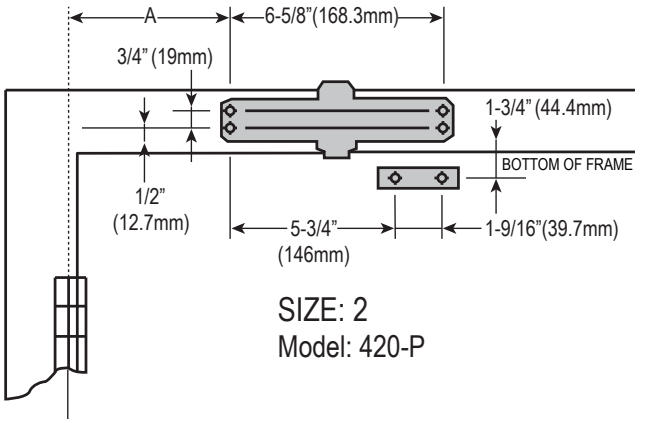
402 - Flat Drop Plate for 420-P (Size 2)
703 - Flat Drop Plate for 430-P (Size 3) & 440-P (Size 4)



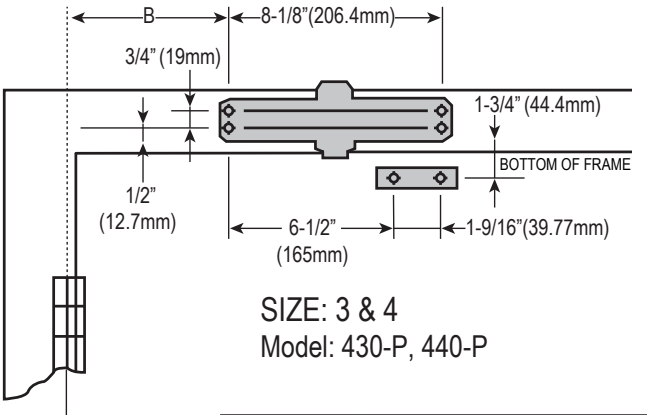
OPENING	DIM A SIZE 2	DIM B SIZE 3 & 4
120° - 180°	3-3/4" (95.25 mm)	4-3/4" (120.1 mm)
OVER 180°	2-9/16" (65 mm)	3-1/8" (79.4 mm)

- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

400 SERIES : TOP JAMB INSTALLATION (PUSH SIDE)

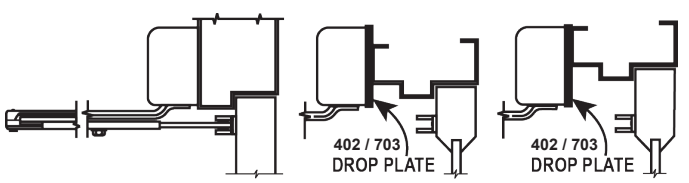


SIZE: 2
Model: 420-P



SIZE: 3 & 4
Model: 430-P, 440-P

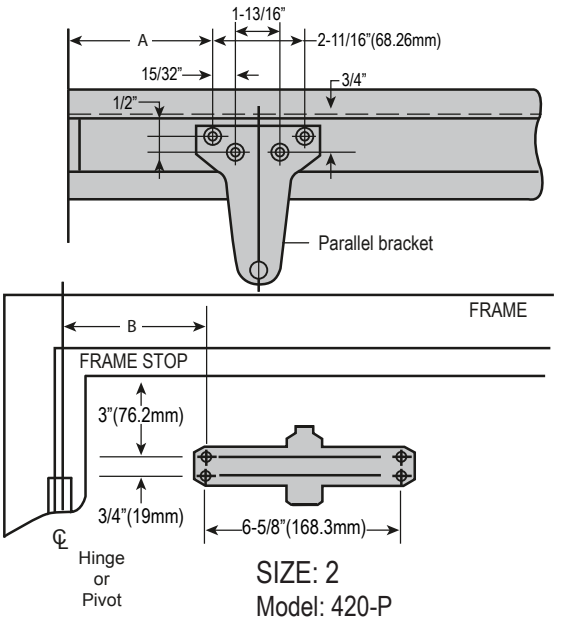
402 - Flat Drop Plate for 420-P (Size 2)
703 - Flat Drop Plate for 430-P (Size 3) & 440-P (Size 4)



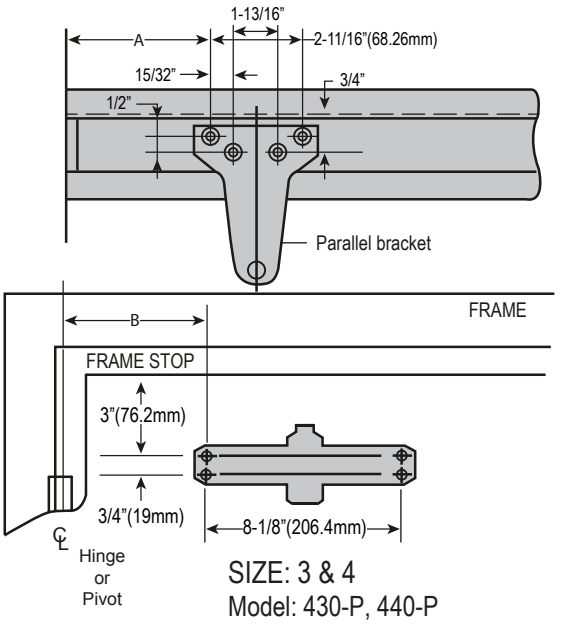
OPENING	DIM A SIZE 2	DIM B SIZE 3 & 4
120° - 180°	3-3/4" (95.25 mm)	3-1/8" (79.4 mm)
OVER 180°	2-9/16" (65 mm)	4-3/4" (120.1 mm)

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

400 SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)



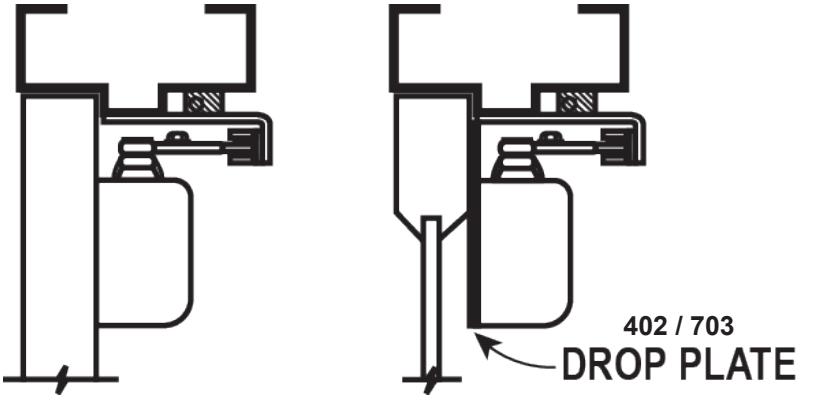
SIZE: 2
Model: 420-P



SIZE: 3 & 4
Model: 430-P, 440-P

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

OPENING	DIM A SIZE 2	DIM B SIZE 2	DIM A SIZE 3 & 4	DIM B SIZE 3 & 4
120° - 180°	5-7/8" (149.2 mm)	4-11/16" (119 mm)	7-7/8" (200 mm)	6-11/16" (169.8 mm)
OVER 180°	4-11/16" (119 mm)	3-1/2" (88.9 mm)	6-11/16" (169.8 mm)	5-1/2" (139.7 mm)

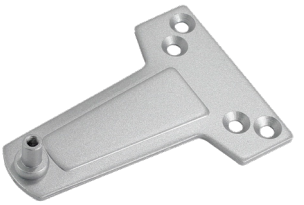
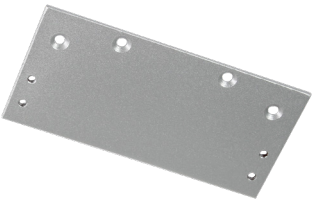


402 - Flat Drop Plate for 420-P (size 2)

703 - Flat Drop Plate for 430-P (size 3) and 440-P (size 4)

OPTIONAL INSTALLATION

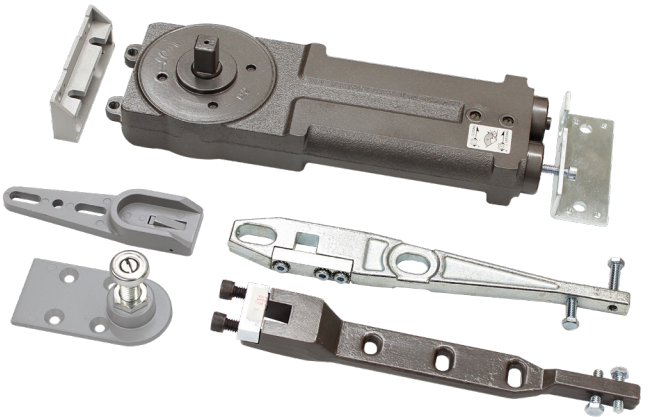
REGULAR ARM (PULL SIDE)	**MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)** **OPTIONAL INSTALLATION** **ARMS** • **301 / 302**- Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe **BRACKETS** • **402** - Flat Drop Plate for 420-P (size 2) • **703 -** Flat Drop Plate for 430-P (size 3) and 440-P (size 4)
TOP JAMB (PUSH SIDE)	
PARALLEL ARM (PUSH SIDE)	**MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)** **OPTIONAL INSTALLATION** **ARMS** • **301 / 302**- Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe **BRACKETS** • **402** - Flat Drop Plate for 420-P (size 2) • **703 -** Flat Drop Plate for 430-P (size 3) and 440-P (size 4) • **905 -** Parallel Arm Bracket

			
COV / 400	**905**	**703**	**402**
• Plastic full cover • Fits all sizes • Shipped separately	• Parallel arm bracket • Non-handed	• Flat drop bracket • Non-handed	• Flat drop bracket • Non-handed
			
970138	**970**	**706**	**301 / 302**
• Sex bolts for 1 ⅜" doors • Female part only • ¼" – 20 (set of 4) • For Steel Door Application	• Sex bolts • Female part only • ¼" – 20 (set of 4) • For Steel Door Application	• Thru bolts and grommet nuts • Set of 4 • For Wood and Aluminum Door Application	• Hold-Open Arm and Parallel Bracket • Forged Steel Constructions • Non-handed

88 SERIES

ANSI A156.4 Grade 1, Concealed Overhead Door Closers with Fixed and Adjustable Power Spring

c UL us | 10-YEAR WARRANTY | MEETS The Buy American Act



- ***Power Adjustable 1-4 (Grade 1)***
- ***Meets both 5 and 8.5 lbs opening force for ADA***
- ***Replacement for International, Calibre, and CR Laurence***

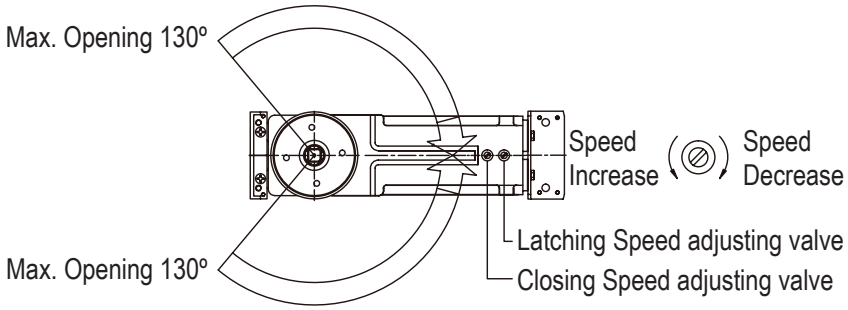
FEATURES

- ANSI A156.4 **Grade 1**: UL Listed
- Cal-Royal's finest concealed overhead door closer series meeting the highest industry standards **Grade 1.**
- UL Listed for **fixed** size door closers. (**Grade 1**)
  UL Listed 10c for **adjustable** door closers. (**Grade 1**)
- **Center Hung Door Application:** Double or Single Acting (applied door stop renders unit Single Acting). Adjustable "S" type side loading or "A" type, "K" type, and "PT" type end loading arms are available for center pivoted door applications.
- **Offset Hung Door Application:** Single Acting Offset "JO" and "VO" type top arms are available for butt hung or offset pivoted applications.
- Available with ½", ¾" long, and $^{7}/_{8}$" extended spindles.

FUNCTIONS

- Built-in positive Back Stop and Hold-Open positions are available:

  105º Back Stop with Hold-Open
  105º Back Stop - no Hold-Open
  90º Back Stop with Hold-Open
  90º Back Stop - no Hold-Open



- Handicap (ADA) adjustable spring tensions available for use on center pivoted door applications:

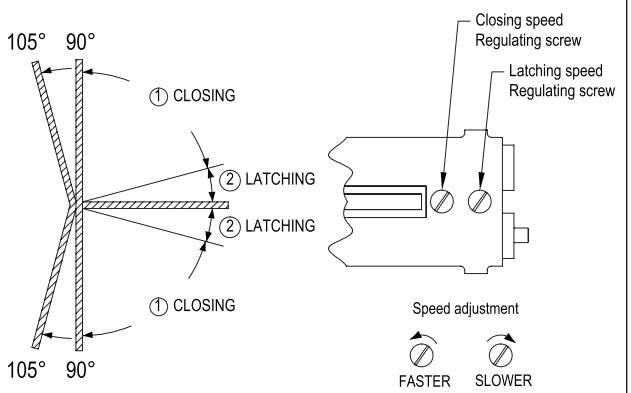
  5.0 lb. Opening Force (Center Hung Door)
  8.5 lb. Opening Force (Center Hung Door)

- Available also in **light**, **medium**, **heavy** standard Fixed Spring Tensions.

POWER SIZE	1	2	3	4
Max Door width [inches (mm)]	31 $^{1}/_{2}$ (800)	35 $^{7}/_{16}$ (900)	39 $^{3}/_{8}$ (1000)	43 $^{5}/_{16}$ (1100)
Max Door weight [lbs (kg)]	220 (100)			

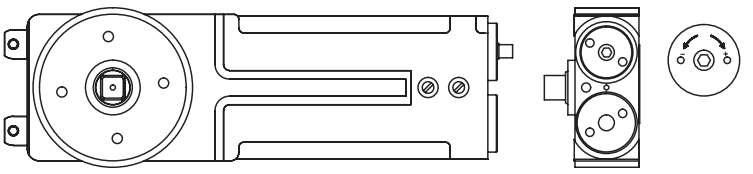
FEATURES

REGULATING CLOSING AND LATCHING SPEED



For fire door and door frame with frame stop

POWER ADJUSTMENT



Factory presetting size: Size 2
Door Closer Size 1 is not intended for use with swinging doors in fire separations and on exit doors.

ADA	SIZE 1	SIZE 2	SIZE 3	SIZE 4
-2.5	-1	0	+3	+4

- **Dual Speed Control Valves:** Closing and Latching speeds controlled by separate regulating valves, fully adjustable after installation.
- Universal application. Non-handed for left or right door application.
- Adjustable dual purpose radial ball-bearing bottom pivot set is provided for floor or threshold mounted (Side or End Loading) center pivoted installation. Bottom pivot sets are optional, and must be ordered seperately.
- Installs in an aluminum storefront header or transom as small as 1-3/4" x 4".
- Positive centering for alignment and to hold door closed against normal wind or draft conditions.

Center Hung Doors

- Arm package complete units come standard with top arm assembly "S" (side loading arm) or "A", "K", and "PT" (end loading arm), adjustable dual purpose bottom pivot set, and anchor set with all fasterners (88-PV).
- "JO" or "VO" type offset arms are optional, but must be specified. Specify finish ALUM or DURO.
- For optional pivots, suffix arm type (**"S"**, **"A"**, **"K"** or **"PT"**) and pivot type (**"88-G"** or **"88-GE"**) after **body part # (eg. 8840S + G)** otherwise, shipped with adjustable dual purpose bottom pivot set, and anchor set with all fasterners (**88-PV**).

Offset Hung Doors

- Offset hung doors are single acting. Offset "JO" and "VO" type top arms are available for butt hinge or offset pivot applications.
- Offset pivots or Butt hinges not included.

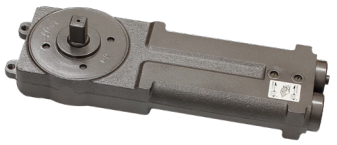
88 SERIES: OVERVIEW INSTALLATION (TOP AND BOTTOM)

- Arm package complete units come standard with top arm assembly **"S"** side loading arm or "**A**", **"K"**, and **"PT"** end loading arm, adjustable dual purpose bottom pivot set and anchor set with all fasteners.
- **"JO"** or **"VO"** type offset arms are optional, but must be specified. Specify finish **ALUM** or **DURO**.
- For optional pivots, suffix arm type (**"S"**, **"A"**, **"K"** or **"PT"**) and pivot type (**"88-G"** or **"88-GE"**) after **body part # (eg. 8840S + G)** otherwise, shipped with adjustable dual purpose bottom pivot set and anchor set with all fasteners (**88-PV**).

STOCK ITEMS IN BOLD
NON-STOCK ITEMS AVAILABLE WITH FACTORY LEAD TIME AND SUBJECT TO MINIMUM ORDER.

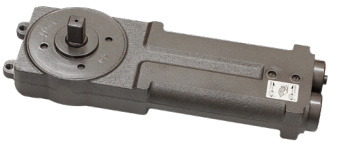
DOOR SIZE	POWER SIZE	SPINDLE	HO / NHO	OPENING	BODY ONLY	ARMS Center Hung - Side Load	ARMS Center Hung - End Load			ARMS Offset Hung	
						1/2" Depth ("S" Type)	1" Depth ("A" Type)	5/8" Depth ("K" Type)	7/8" Depth ("PT" Type)	9/16" Depth ("JO" Arm)	7/8" Depth ("VO" Arm)
From 36" to 48" x 96"	Adjustable 1 - 4 ADA 5 lbs (Interior) ADA 8.5 lbs (Exterior)	1/2"	HO	90°	**8840**	**8840S**	**8840A**	**8840K**	**8840PT**	NA	
				105°	**8850**	**8850S**	**8850A**	**8850K**	**8850PT**		
			NHO	90°	**8820**	**8820S**	**8820A**	**8820K**	**8820PT**		
				105°	**8830**	**8830S**	**8830A**	**8830K**	**8830PT**		
		3/4"	HO	90°	**8809**	**8809S**	**8809A**	**8809K**	**8809PT**		
				105°	**8810**	**8810S**	**8810A**	**8810K**	**8810PT**		
			NHO	90°	8811	8811S	8811A	8811K	8811PT		
				105°	8812	8812S	8812A	8812K	8812PT		
		7/8"	HO	90°	**8800**	**8800S**	**8800A**	**8800K**	**8800PT**		
				105°	8801	8801S	8801A	8801K	8801PT		
			NHO	90°	8802	8802S	8802A	8802K	8802PT		
				105°	8803	8803S	8803A	8803K	8803PT		
Up to 30" x 96"	Light	1/2"	HO	90°	8855	8855S	8855A	8855K	8855PT	8855JO	8855VO
				105°	8856	8856S	8856A	8856K	8856PT	8856JO	8856VO
			NHO	90°	8857	8857S	8857A	8857K	8857PT	8857JO	8857VO
				105°	8858	8858S	8858A	8858K	8858PT	8858JO	8858VO
31" to 41" x 96"	Medium		HO	90°	8859	8859S	8859A	8859K	8859PT	8859JO	8859VO
				105°	**8860**	**8860S**	**8860A**	**8860K**	**8860PT**	**8860JO**	**8860**VO
			NHO	90°	8861	8861S	8861A	8861K	8861PT	8861JO	8861VO
				105°	8862	8862S	8862A	8862K	8862PT	8862JO	8862VO
42" to 48" x 96"	Heavy		HO	90°	8863	8863S	8863A	8863K	8863PT	8863JO	8863VO
				105°	8864	8864S	8864A	8864K	8864PT	8864JO	8864VO
			NHO	90°	8865	8865S	8865A	8865K	8865PT	8865JO	8865VO
				105°	8866	8866S	8866A	8866K	8866PT	8866JO	8866VO

88 SERIES: PARTS AND ACCESSORIES



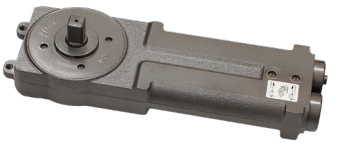
8820

Power Adjustable size **1-4**
1/2" Spindle, 90° Non-Hold Open
max door weight 220 lbs
Body only



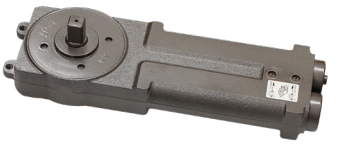
8830

Power Adjustable size **1-4**
1/2" Spindle, 105° Non-Hold Open
max door weight 220 lbs
Body only



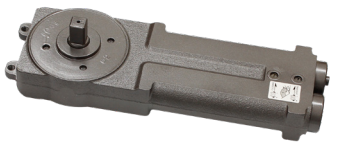
8840

Power Adjustable size **1-4**
1/2" Spindle, 90° Hold Open
max door weight 220 lbs
Body only



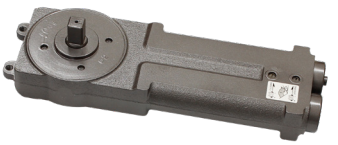
8850

Power Adjustable size **1-4**
1/2" Spindle, 105° Hold Open
max door weight 220 lbs
Body only



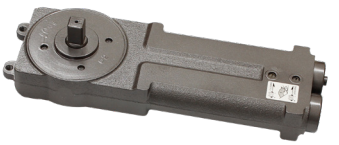
8800

Power Adjustable size **1-4**
7/8" Spindle, 90° Hold Open
max door weight 220 lbs
Body only



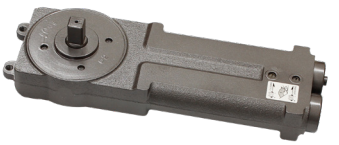
8809

Power Adjustable size **1-4**
3/4" Spindle, 90° Hold Open
max door weight 220 lbs
Body only



8810

Power Adjustable size **1-4**
3/4" Spindle, 105° Hold Open
max door weight 220 lbs
Body only



8860

Medium Duty Fixed size 3
1/2" Spindle, 105° Hold Open
max door weight 220 lbs
Body only



88-S

"S" Type Adjustable Side Loading
Top Arm Assembly, 1/2" Depth Top Rail



88-A

"A" Type Adjustable End Loading
Top Arm Assembly, 1" Depth Top Rail



88-PT

"PT" Type Adjustable End Loading
Top Arm Assembly, 7/8" Depth Top Rail



88-K

"K" Type Adjustable End Loading
Top Arm Assembly, 5/8" Depth Top Rail



88-VO

"VO" Type Offset Top Arm Assembly,
Surface Type, 7/8" Depth Top Rail



88-JO

"JO" Type Offset Top Arm Assembly,
Mortise Type, 9/16" Depth Top Rail



88-PV

Adjustable Dual Purpose
Bottom Pivot Set



88-G

Adjustable Floor Mount
Bottom Pivot



88-GE

Adjustable Threshold Mount
Bottom Pivot



88-ANC

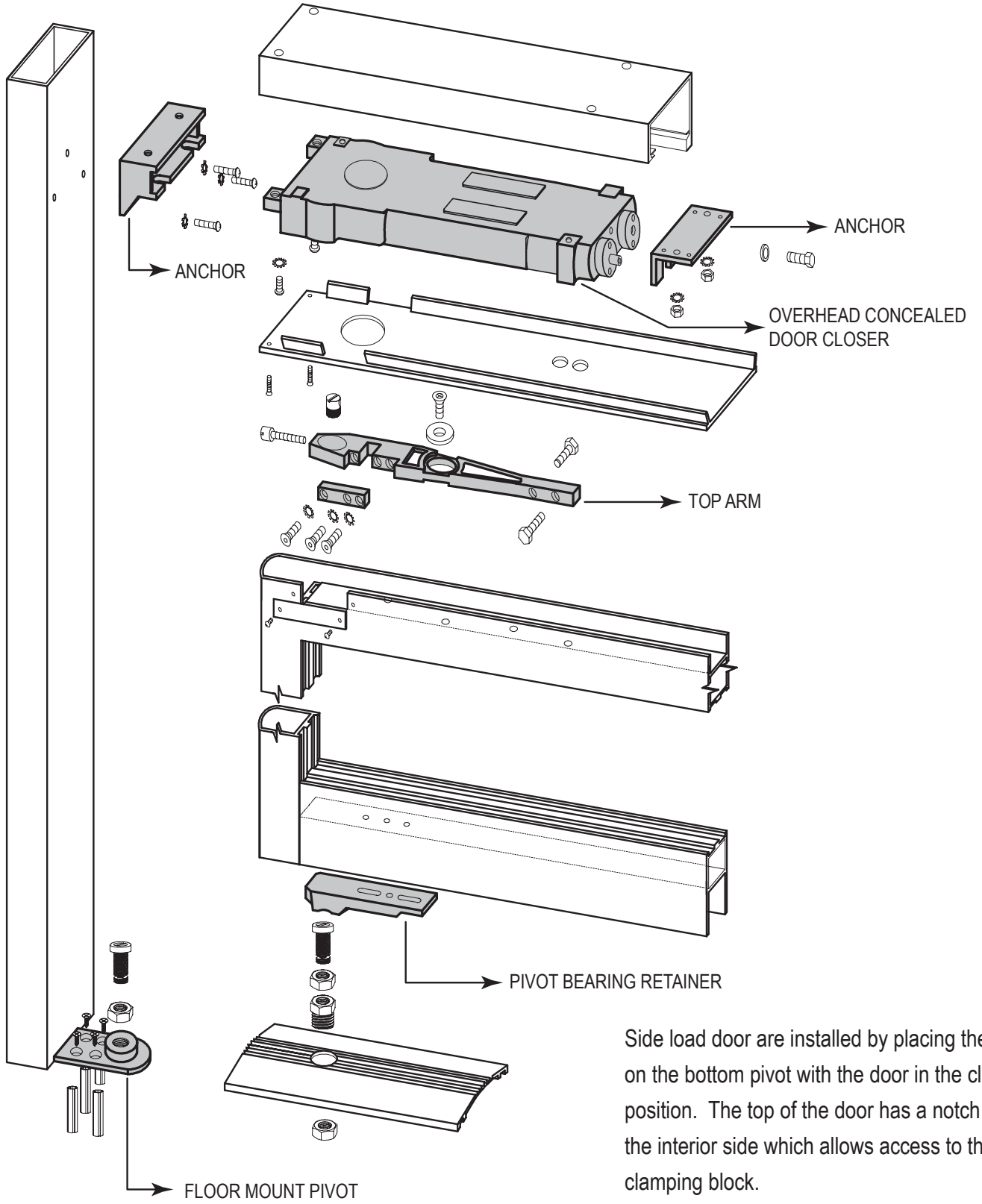
Standard Adjustable Anchor Set



88-FIX

Standard Fixed Anchor Set

88 SERIES : EXPLODED VIEW

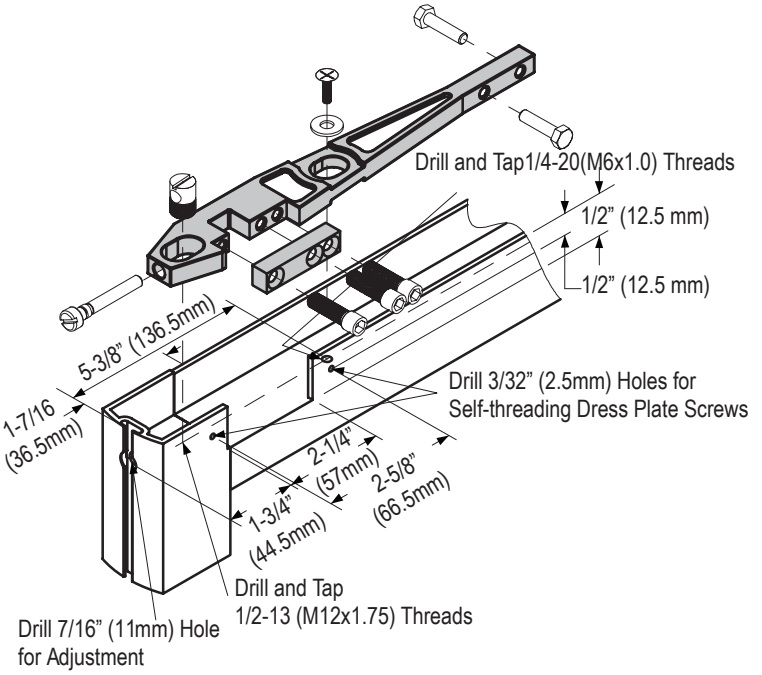


Side load door are installed by placing the door on the bottom pivot with the door in the closed position. The top of the door has a notch on the interior side which allows access to the clamping block.

88 SERIES : ARM INSTALLATION FOR CENTER HUNG DOORS

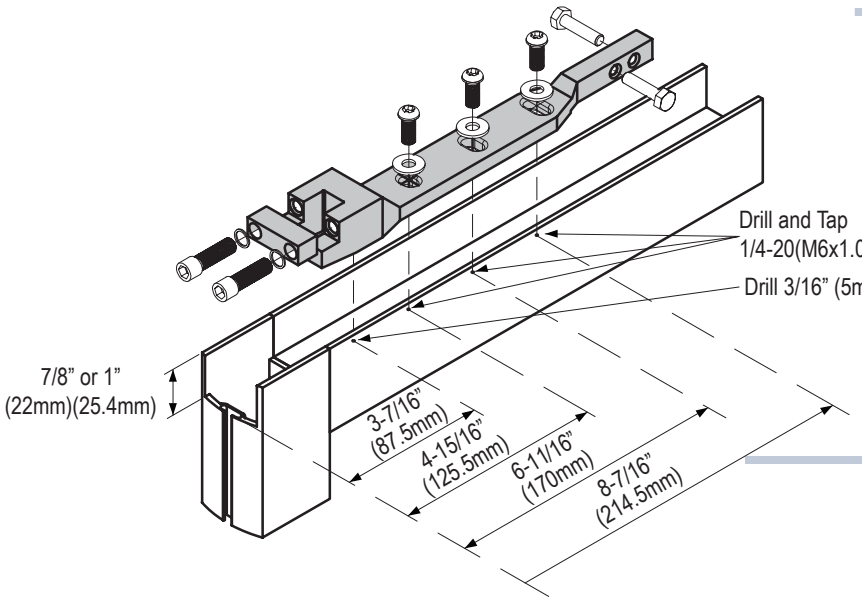
TOP DOOR RAIL
"S" Type Side Loading Arm

- Require minimal ½" depth top door rail.
- Used with center hung doors.
- For center pivot applications.



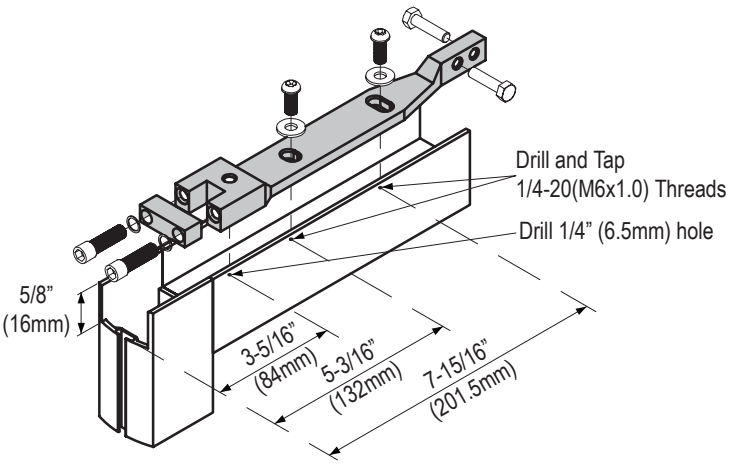
TOP DOOR RAIL
"A" and "PT" Type End Loading Arm

- "A" Type requires minimal 1" depth top door rail
- "PT" Type requires minimal 7/8" depth top door rail
- Used with center hung doors
- For center pivot applications



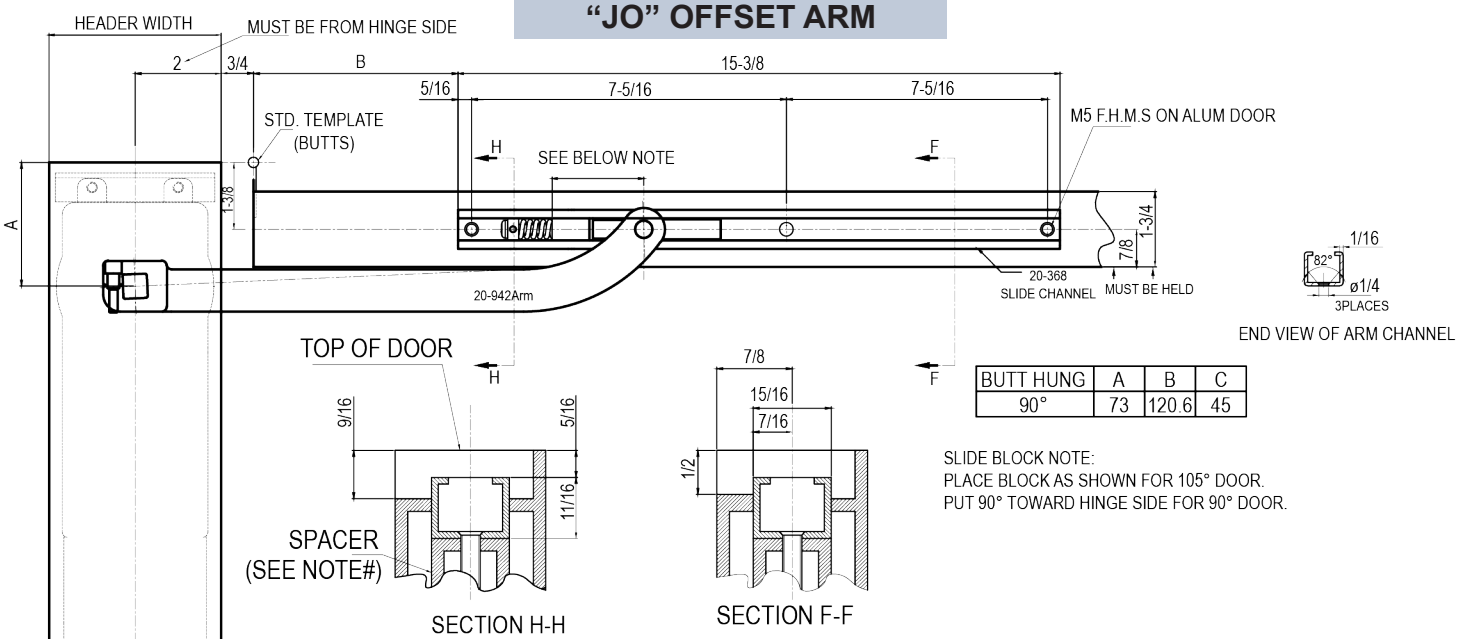
TOP DOOR RAIL
"K" Type End Loading Arm

- Require minimal $^{5}/_{8}$" depth top door rail
- Used with center hung doors
- For center pivot applications



88 SERIES : ARM INSTALLATION FOR OFFSET HUNG DOORS

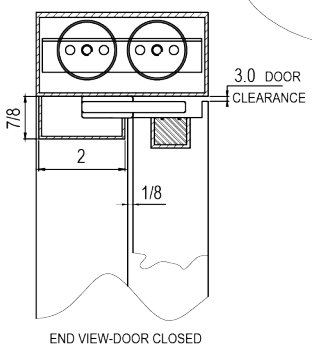
"JO" OFFSET ARM



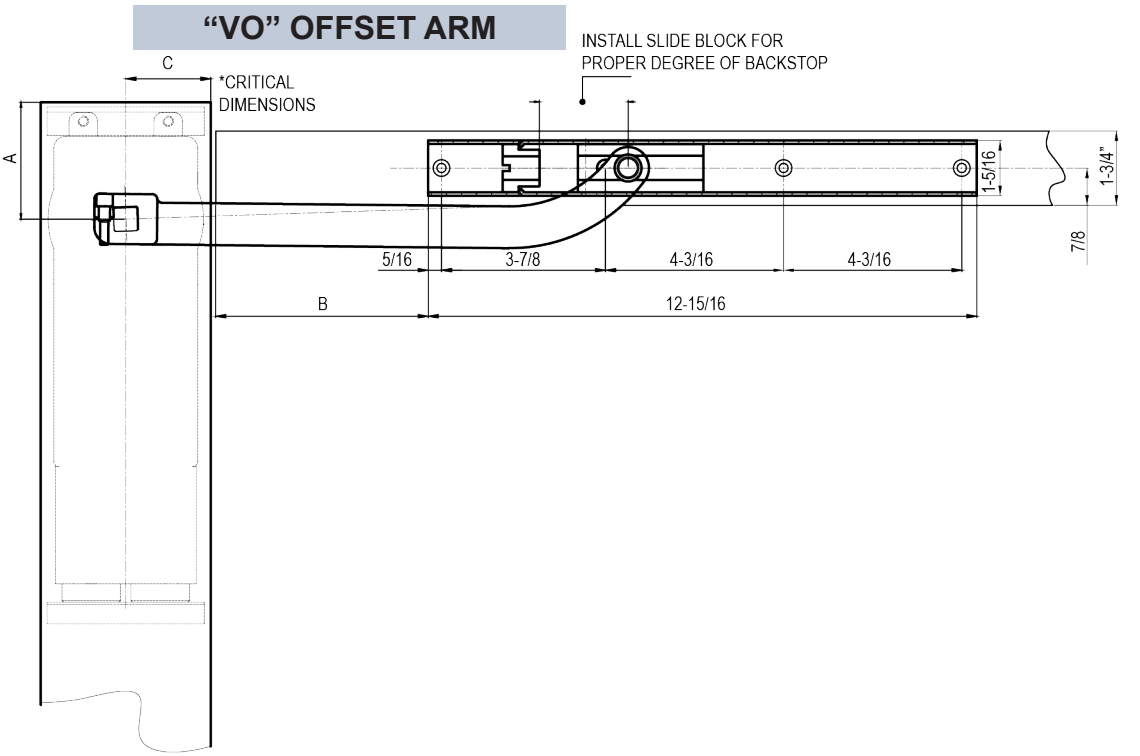
BUTT HUNG	A	B	C
90°	73	120.6	45

SLIDE BLOCK NOTE:
PLACE BLOCK AS SHOWN FOR 105° DOOR.
PUT 90° TOWARD HINGE SIDE FOR 90° DOOR.

NOTE:
DOOR MFG. TO SUPPLY APROPRIATE SPACER AND BACK-UP PLATES CHAMFER ALL 3 TAP HOLES ON SPACER : C1



"VO" OFFSET ARM



88 SERIES : COMPARISON CHART

DESCRIPTION		CAL-ROYAL	C.R. L.	DORMA	INTERNAT'L	CALIBRE	JACKSON	RIXON	LCN	Dor-O-Matic
SIDE LOAD										
ADJUSTABLE 1-4	1/2" Spindle	8840	CRL6760	RTS88 RTS88 BFI RTS88 BFE	202, 212 D312, D512	2202, 2212	101 Series	608	6030	12000, 22000 13000, 23000 14000, 24000
		8820	CRL6762		203, 213 D313, D513	2203, 2213				
		8850	CRL6770		200, 210 D510, D510	2200, 2210				
		8830	CRL6772		201, 211 D511, D511	2201, 2211				
	3/4" Spindle	8809	CRL9760		---	---				
		8811	CRL9762		---	1133-20-A-DP				
		8810	CRL9770		D310-20-A-DP D510-20-A-DP	1140-20-A-DP				
		8812	CRL9772		D311-20-A-DP D511-20-A-DP	1141-20-A-DP				
	7/8"	8800	---		---	---				
MEDIUM FIXED	1/2" Spindle	8860	CRL7770		230	2231				
END LOAD										
ADJUSTABLE 1-4	1/2" Spindle	8840	CRL6760	RTS88 RTS88 BFI RTS88 BFE	D312, D512	2202, 2212	101 Series	700 800	6030	12000 13000 14000
		8820	CRL6762		D313, D513	2203, 2213				
		8850	CRL6770		D510, D510	2200, 2210				
		8830	CRL6772		D511, D511	2201, 2211				
	3/4" Spindle	8809	CRL9760		---	---				
		8811	CRL9762		---	1133-20-A-DP				
		8810	CRL9770		D310-20-A-DP D510-20-A-DP	1140-20-A-DP				
		8812	CRL9772		D311-20-A-DP D511-20-A-DP	1141-20-A-DP				
OFFSET SLIDE ARM										
MEDIUM FIXED	1/2" Spindle	8860	---	RTS88	230	1130	201 Series	0608 0700	2030	22500 23500 24500

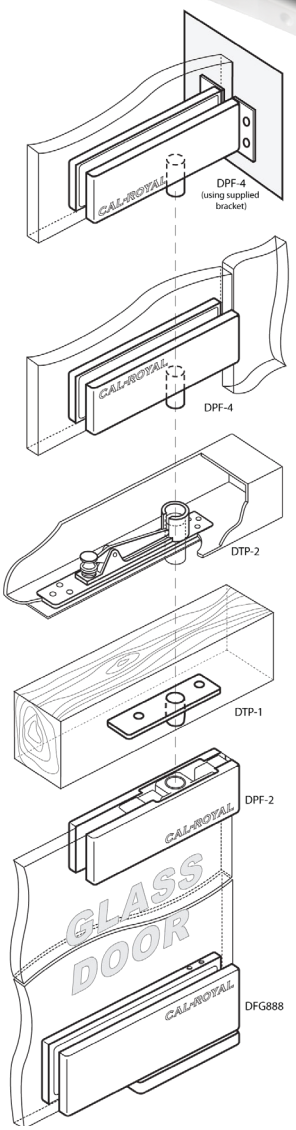
Note:

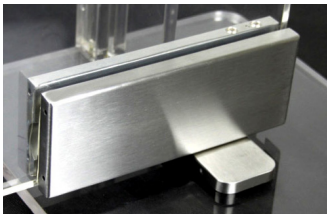
- *Above listed door closers are comparable in specifications and featues. Mounting hole dimensions and apperance may vary.*
- *Door closers may represent a series. Exact model may include size or function designation.*

DFG888 Concealed Glass Floor Door Closer

5-YEAR WARRANTY







- Standard Concealed Glass Floor Door Closer with Hold-Open
- Also available with Non Hold-Open option (**DFG888-NHO**)
- Quick and Easy Installation with Smooth Movement
- No Need to Have the Preset on the Floor
- Easy Installation with Base Seat Adjustable for ± 0.12" (±3mm) Backward and Forward, ± 0.12" (±3mm) Left and Right, and for 4° Alignment Adjustment

FEATURES

- Suggested Door Width: 29.5" - 39.4" (750-1000mm)
- Door Weight: 220 lbs. (100kgs)
- Dimensions: Length: 7.32" (186mm)
  Width: 2.68" (68mm)
  Thickness: 1.42" (36mm)
- Angle of Opening: 150° for both left and right opening (double action)
- Closing Speed: Optional
- Braking Speed: Optional
- Hold-Open: 90°; Optional Non Hold-Open (DFG888-NHO)
- Stock Item with Hold-Open Feature
- Warranty: 5 Years

		
DFG888-NHO	**DPF-2**	**DPF-4**
• Concealed Glass Floor Door Closer with Non Hold-Open feature • Non-Handed	• Top Patch (door) • Non-handed	• Over Panel Patch • Used on Glass Walls or Glass Overhead Panels
		
DTP-2	**DTP-1**	
• Optional Adjustable Top Pivot • Used on Hollow Door Frames	• Optional Top Pivot • Used on Solid Door Frames	

8600 SERIES

Exterior and Interior
Automatic "Low Energy" Swing Door Operator



ADA COMPLIANT

INTERTEK ETL LISTED C US

Cal-Royal Products, Inc. local manufacturing makes it easy to create automated entrances in a timely manner. Let us demonstrate our superior quality, service, support and custom capabilities on your next project. Cal-Royal brings you the professional support as the manufacturer. Whether your application involves a single automatic operator or a complete facility access, you can expect all phases of the project to be handled professionally.

Introducing our 8600 Series Automatic Swing Door Operator. A swing door operator is beneficial for any commercial, retail or industrial environment, bestowing any manual door with the complete effortless convenience of an automatic door.

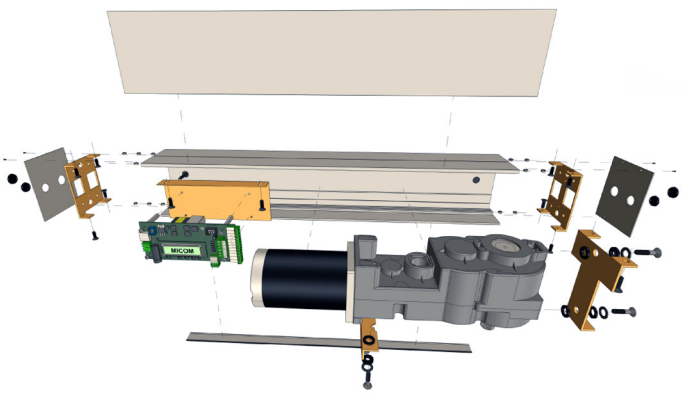
Whether you need a door operator for ADA compliance, to improve traffic flow, or simply to heighten your patrons' experience, Cal-Royal Products, Inc. can provide a door operator system that is customized to suit your specific requirements.

With our door operators, you can turn virtually any swing door into an automatic door. Our swing door operators are perfect for transforming a manual door to an ADA compliant low energy automatic door. Compatible with wood, metal and glass doors. Allow for fast and easy retrofit installation.

Cal-Royal's mission is to make our customers' business as successful and profitable as possible. We want to be the preferred partner for distributors and the number one choice of end user customers by providing innovative products and technical expertise.

MAIN FEATURES

- Optional Exterior / Interior Operations
- Interior Operator with Clutch System but without Wind Dampening feature
- Exterior Operator with Wind Dampening and Power Close with 5 force settings feature
- ADA Compliant and confirms to ANSI A156.19 / UL325 standards for door operators
- **700 lbs door capacity and 48" wide**
- Easy non-handed conversion, specify hand when ordering
- Programmable Controller with easy set up & programming
- Push & Go feature opens a door when pushed manually
- Obstacle Detection feature for open & closing ensures the safest use possible
- On Board Power Supply, 12/24 VDC 1.2A for strikes & latches
- Adjustable Closing & Opening Speeds
- Adjustable Closing Force
- Adjustable Latching Speed & Position
- Electrified Lock Input and Delay



OPERATOR FEATURES

- Programmable controller with digital LED display. Simple easy to use interface for installation setup and programming.
- Selectable PUSH & GO feature with separate adjustable hold-open times engages automatic opening after pedestrian has manually moved the door.
- Built-in Obstacle Detection safety on opening and closing door operations that reverts direction of door to prevent pedestrian entrapment with up to 4 attempts.
- Selectable with 5 separate force settings during **Power Close*** operation from fully open 90° position to fully closed.
- Electrified Lock Input option for selectable Fail Safe or Fail Secure electric strike operation.
- Electric Lock delay provides adjustable time delay of 0.2 to 2.0 sec. between activating the electric lock and the start of the opening cycle.
- **Wind Force Dampening*** feature engages motor to reduce abrupt door speed to prevent damage to door, hinges and operator arms.
- Stack Pressure Compensation or adjustable force stack pressure feature engages power close operation during last 30° of swing.
- Before Open Latch Assist feature provides selectable power close of 2.0 sec “before open” latch assist to prevent binding of electric strike.
- Digital Impulse Signal Connection enables wet input for 12/24 VDC accessories providing impulse signals can connect direct to control board without costly relays.
- Blow Open for Smoke feature enables door to open when a signal is received from an alarm system allowing for air and smoke to be ventilated out.
- Electronic & Mechanical Stop feature are adjustable to prevent damage to door hinges, walls and operator arms.
- Presence Detector Input feature enables the operator to input 2 external safety sensors.
- Extendable Spindle feature makes it easy to extend spindle up to 3” for unique installations where the operator has to be mounted higher than typical installations.
- Reveal Push Side 14” Standard.
- 2-year warranty.

** Not applicable for Interior Operator*

OPTIONS

- Single, pair (double swing) or double egress door operation
- Choice of in-swing, out-swing, left or right handed operation
- Header with complete front access
- Preset for left or right hand operation as ordered
- Finish options, Aluminum & Bronze. Non stock finishes available with factory lead time, subject to minimum order. Consult factory.

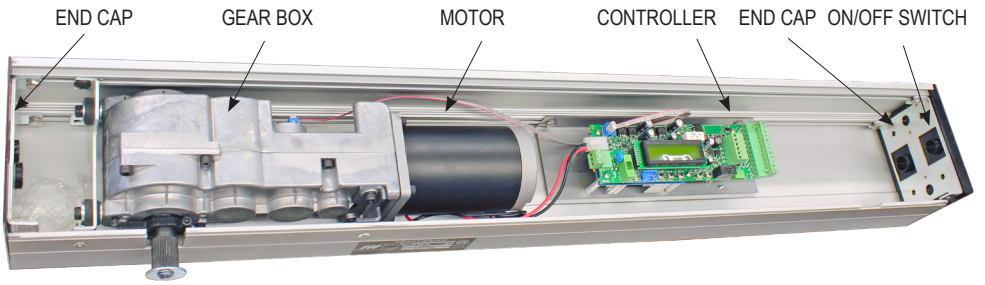
TECHNICAL SPECIFICATIONS	
Application	Low Energy
Door Weight	**700 lbs (317kg) per leaf, 48” wide**
Dimensions (height & width)	5.5” (140mm) H x 4.5 (115mm) D
Standard Dimensions (length)	Single: 39”, 45”, & 51”; Double: 75”, 87” & 99”
Net weight	16 kg (35 lbs) Approx
On Board Power Supply	On board 1.2A 12/24VDC
Consumption	100W Max
Motor rating	1/4 hp, 24VDC, 3A max
Rated operation	Continuous opening and closing cycles
Closing force	Adjustable pressure by spring tension
Operation during power failure	Low manual resistance when opened by hand. Door closing by spring.
Motor type	Low revolution, DC motor
Braking (Open back check & close latch)	Adjustable by Control Unit
Before Open Latch Assist	Selectable power close of 2.0 sec. “before open” latch assist to prevent binding of electric strike
Opening time, Full Closed to Back Check	Adjustable (Open Speed in 20 Steps)
Opening time, Back check to full open	Adjustable (Back Check Speed in 5 Steps / Back Check Distance in 15 Steps)
Closing time, Full open to latch	Adjustable (Close Speed in 15 Steps)
Closing time, Latch to full closed	Adjustable (Latch Speed in 5 Steps / Latch Distance in 15 Steps)
Hold open	Pulsed Energy to Motor. No overheating. Continuous Hold Open
Obstacle detection (without safety sensor)	Opening: If door detects an obstacle, power is cut to motor. (Sensitivity adjustable by ‘Current Overload’ setting) Door will close by spring power at low speed.
Obstacle detection (with safety sensor)	Safety sensor connected to Safety 1 input will prevent a door opening or prevent the door to go in the closing cycle when the safety sensor is active. Safety sensor connected to Safety 2 input will stall or crawl (Installer selectable) the door when the safety sensor is active.
Operating environment	Ambient temperature -18 deg ~ +50 deg. (no condensation or icing)
	Ambient humidity 30% to 85%RH (no hazardous materials must be present in the atmosphere)

For Interior Operator, prefix **INT** + Item No. + Length + Finish.

8600 SERIES

CAL-ROYAL PRODUCTS, INC. U.S.A.

MAJOR COMPONENTS DIAGRAM

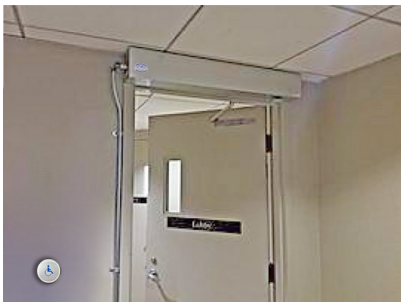


ADA COMPLIANT

INTERTEK ETL LISTED C US









ARM AND TRACK ASSEMBLIES

ILLUSTRATION	DESCRIPTION	ITEM NO
	STANDARD PUSH ARM NON-HANDED FOR 0" TO 14" REVEAL	**8622-ARM**
	PUSH ARM EXTENSION NON-HANDED FOR 14" TO 20" REVEAL	**8623-EXT**
	ANGLE PULL ARM (RIGHT) HANDED FOR 0" TO 4" REVEAL	**8624-RH**
	ANGLE PULL ARM (LEFT) HANDED FOR 0" TO 4" REVEAL	**8625-LH**
	OPTIONAL STRAIGHT PULL ARM NON-HANDED FOR 0" TO 6" REVEAL	**8626-ARM**

STICKERS
Comes with every purchase of an operator.







AVAILABLE FOR BOTH EXTERIOR AND INTERIOR OPERATIONS

UNIQUE FEATURES	EXTERIOR	INTERIOR
Wind Force Dampening feature engages motor to reduce abrupt door speed to prevent damage to door, hinges and operator arms.	YES	NO
Selectable with 5 separate force settings during Power Close operation from fully open 90° position to fully closed.	YES	NO
Clutch System allows motor to disengage in the event of power failure resulting in a smooth and light manual opening and closing of door.	NO	YES

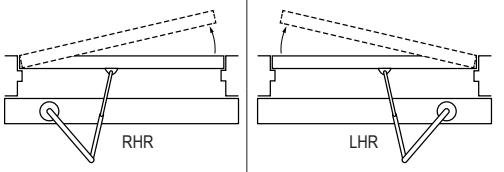
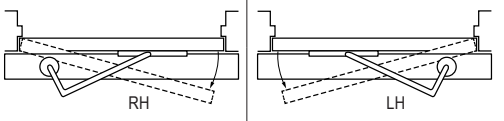
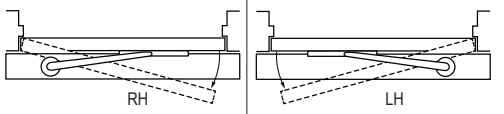
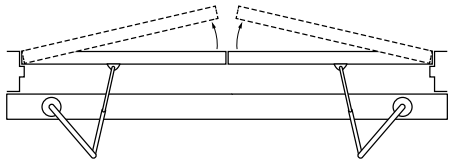
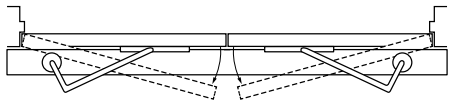
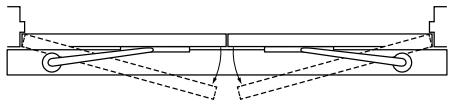
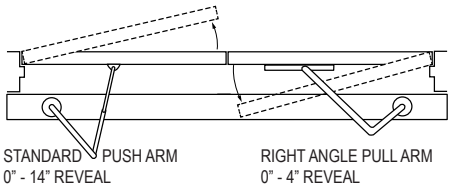
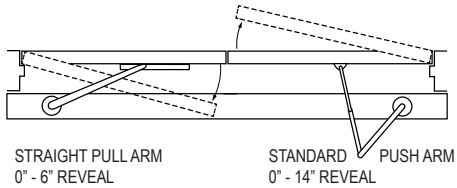
COMPETING PRODUCTS COMPARISON

Cal-Royal	Dorma	Norton	Assa Abloy	Hager	LCN	LCN	Record
8600	ED900	6000/6300	SW200i	8400	4630/4640	9540/9130	6100/6200

APPLICATIONS: GOVERNMENT ♦ HEALTHCARE ♦ EDUCATION ♦ RETAIL ♦ MULTI-FAMILY ♦ SECURITY ENTRANCES ♦ HOTELS ♦ RESTAURANTS ♦ OFFICE BUILDINGS ♦ BANKS

8600 SERIES APPLICATION

CAL-ROYAL PRODUCTS, INC. U.S.A.

ITEM NO	HANDING	TYPE	ILLUSTRATION	DESCRIPTION
8601	LHR	Single		**SINGLE OPERATOR** **STANDARD PUSH ARM, 0"- 14" REVEAL** (must order 8622EXT for 14"-20" reveals) Length: 39" , 45" and 51" Handing: LHR or RHR Finish: Alum or Bronze
8602	RHR			
8603	LH			**SINGLE OPERATOR** **STANDARD PULL ANGLE ARM, 0"- 4" REVEAL** Length: 39" , 45" and 51" Handing: LH or RH Finish: Alum or Bronze
8604	RH			
8605	LH			**SINGLE OPERATOR** **OPTIONAL PULL STRAIGHT ARM, 0"- 6" REVEAL** Length: 39" , 45" and 51" Handing: LH or RH Finish: Alum or Bronze
8606	RH			
8607	LHR/RHR	Simultaneous or Independent Pair		**SIMULTANEOUS or INDEPENDENT PAIR** **STANDARD PUSH ARM, 0" - 14" REVEAL** (must order 8622EXT for 14"-20" reveals) Length: 75", 87" and 99" Handing: RHR and LHR; Finish: Alum or Bronze
8608	LH/RH	Simultaneous or Independent Pair		**SIMULTANEOUS or INDEPENDENT PAIR** **PULL ANGLE ARM, 0" - 4" REVEAL** Length: 75", 87" and 99" Handing: LH and RH Finish: Alum or Bronze
8609	LH/RH	Simultaneous or Independent Pair		**SIMULTANEOUS or INDEPENDENT PAIR** **PULL STRAIGHT ARM, 0" - 6" REVEAL** Length: 75", 87" and 99" Handing: LH-RH Finish: Alum or Bronze
8610	LH/RHR	Simultaneous or Independent Pair		**DOUBLE EGRESS PAIR** **STANDARD PUSH ARM - PULL ANGLE ARM** **(Left or Right)** Length: 75", 87" and 99" Handing: LH-RHR, LHR-RH Finish: Alum or Bronze
8611	LHR/RH			
8612	LH/RHR	Simultaneous or Independent Pair		**DOUBLE EGRESS PAIR** **STANDARD PUSH ARM - PULL STRAIGHT ARM** Length: 75", 87" and 99" Handing: LH-RHR, LHR-RH Finish: Alum or Bronze
8613	LHR/RH			

Pairing selection (Simultaneous or Independent) performed electronically at time of installation.

****Must specify ITEM NO + LENGTH + FINISH when ordering. EXAMPLE: 8601-39 ALUM**
****for Optional Interior Operator, prefix "INT" before item #. EXAMPLE: INT8601-39 ALUM**

LENGTH = door width + 3" in most applications

ACTUATORS & ACCESSORIES

PUSH PLATES 4.5" SQUARE
HARD WIRED or WIRELESS



8636-SW

- 4.5 inch square stainless steel push plate
- Blue handicap logo only
- Available in Pair, Hard Wired, Item No 8650-KIT
- Available in Pair with Wireless Radio Kit, Item No 8651-KIT
- **(1) 8636-SW, Stainless steel push plate**
- **(1) 8636-SM, 4.5" square surface mount box**

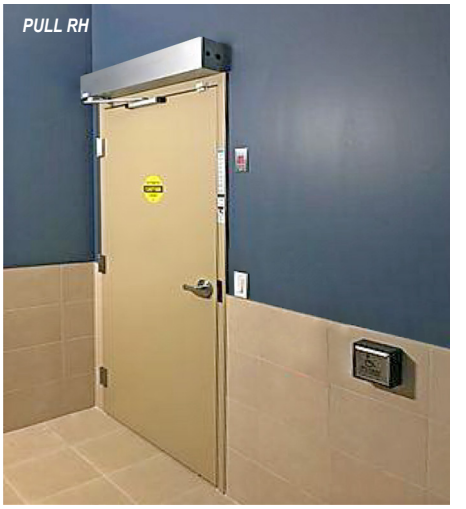
PUSH PLATES 6" ROUND
HARD WIRED or WIRELESS



8637-SW

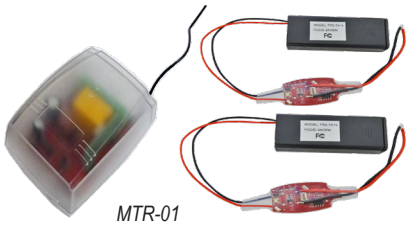
- 6 inch round stainless steel push plate
- Blue handicap logo
- Available in Pair, Hard Wired, Item No 8650-KIT
- Available in Pair with Wireless Radio Kit, Item No 8651-KIT
- **(1) 8637-SW, 6" Stainless steel push plate**
- **(1) 8637-SM, 6" round surface mount box**







WIRELESS RADIO KIT



MTR-01

- RADIO KIT eliminates the hassle of wiring from actuator to controller.
- Federal Communications Commision (FCC) Approved
- For use with 8636-SW and 8637-SW for conversion or replacement
- **(1) Receiver, 433 Mhz**
- **(2) Transmitters, 433 Mhz**

VERTICAL ACTUATOR BAR
HARD WIRED OR WIRELESS



ACT-36

- Exceeds California Building Code Section 1117B.6
- Weather Resistant, stainless steel construction
- Membrane switches provide quite & reliable activation
- Entire surface provides activation from any angle
- Can be mounted on a wall or to a bollard
- 6" W x 36" H x 1"Thick

- **ACT-36, 36" Hardwired, txt & logo**
- **ACT-900, 36" Wireless, 900 MHz**

INFRARED SAFETY SENSOR, HARD WIRED



SCAN-8660

- Low profile design reduces accidental damage
- Can be mounted horizontal or vertical
- Detects the presence of a pedestrian, while the door is opening or closing using triangulation
- Length: 34.5 inches
- Power: 12/24 VAC / VDC
- **SCAN-8660, Door Mounted, active infrared safety sensor**

ACTUATORS & ACCESSORIES

TOUCHLESS SWITCH, HARD WIRED



CTB-01

- Touchless, wave to open switch
- Active Infrared Sensing Technology, 1”- 5” range
- 2” x 4”, Stainless Steel
- Fits in a single gang electrical box
- Power: 12/24V DC
- **CTB-01, 2.75” x 4.5”, 1-gang, Text, Logo & Hand**

TOUCHLESS SWITCH, HARD WIRED



CTB-02

- Touchless, wave to open switch
- Active Infrared Sensing Technology, 1”- 5” range
- 4.5” x 4.5”, Stainless Steel plate with surface mount plastic box
- Power: 12/24V DC
- **CTB-02, 4.5” x 4.5” Square, Text, Logo & Hand**

TOUCHLESS SWITCH, HARD WIRED



CTB-03

- Touchless, wave to open switch
- Active Infrared Sensing Technology, 1”- 6” range
- 4.5” x 4.5”, Stainless Steel & Glass plate with surface mount plastic box
- Power: 12/24V AC/DC
- **CTB-03, 4.5” x 4.5” Square, Text & Hand**

TOUCHLESS SWITCH, HARD WIRED



CTB-05

- Infrared Photoelectric Reflective Sensor Switch
- 2”- 8” range, With Red/Green LED indicator
- Adjustable timer delay function, 0.5 to 20 sec.
- 1.5” x 4.5”, Stainless Steel
- Fits in a standard jamb size electrical gang box
- Power: 12/24V DC
- **CTB-05, 1.5” x 4.5”, single gang, Text & Hand**

TOUCHLESS SWITCH, HARD WIRED



CTB-07

- Infrared Photoelectric Reflective Sensor Switch
- 2”- 8” range, With Red/Green LED indicator
- Adjustable timer delay function, 0.5 to 20 sec.
- 4.5” x 4.5”, Stainless Steel plate with surface mount plastic box
- Power: 12/24V DC
- **CTB-07, 4.5” x 4.5” Square, Text, Logo & Hand**

TOUCHLESS SWITCH, **WIRELESS**



CTW-02

- Touchless, wave to open switch
- Active Infrared Sensing Technology, 1”-3” range
- 4.5” x 4.5”, Composite Surface
- With built in radio transmitter
- Sold per pair (2 Switches & 1 Receiver)
- Power: 12/24V DC
- **CTW-02, 4.5” x 4.5” Square, Logo**

TOUCHLESS SWITCH, HARD WIRED



8630SW *8631SW* *8632SW*

- Utilizes microwave motion technology
- 2” to 24” detection range
- Audible and visual alert indications of activation
- Power: 12/24V AC/DC
- **8630SW, 4.5” x 4.5”, double gang, Text & Hand**
- **8631SW, 4.5” x 2.75”, single gang, Text & Hand**
- **8632SW, 4.5” x 1.68”, Text & Hand**
- **8640-SM, double gang, surface mount box**
- **8641-SM, single gang, surface mount box**
- **8642-SM, 1.5” x 4.75” jamb surface mount box, Hardwired solutions only**

TOUCHLESS SWITCH, HARD WIRED



8633-SW

- Utilizes microwave motion technology
- Adjustable from 4” to 24” range
- Microwave cell can be mounted behind drywall
- Comes with both single gang and double gang faceplates
- Power: 12/24V AC/DC
- **8633-SW, Microwave Cell Switch, with Single and Double gang BLACK faceplate, Text & Hand**
- **8641-SM, Single gang, surface mount box**
- **8640-SM, Double gang, surface mount box**

TOUCHLESS SWITCH, SHORT RANGE HARD WIRED



8634-SW *8635-SW*

- Utilizes capacitance technology
- Short range detection zone reduces unwanted activations
- Touchless design reduces the spread of bacteria, disease and contamination
- Power: 12/24V AC/DC
- **8634-SW, 6” Round, Text, Logo & Hand**
- **8635-SW, 4.75” Square, Text, Logo & Hand**

Cal-Royal Products, Inc. reserves the right to, and may, on occassions, make changes and/or improvments in design, dimensions and technical specifications without prior notice.

CAL-ROYAL PRODUCTS, INC. USA

CRP SECURITIES USA

LOCKSETS



TABLE OF CONTENTS

I. GRADE 1

MORTISE

NM Series

Features & Specifications 2
Escutcheon 3
Sectional 4
Deadbolt 8
Accessories 9
Electrified 10

SC Series

Features & Specifications 12
Escutcheon 14
Sectional 14
Deadbolt 19
Accessories 15
Electrified 16
Hospital Latch (HL Series) 17
Ligature Resistant (LG Series) 18

TUBULAR

HOSPP Series 24

CYLINDRICAL

Genesys Series 25-30
Calypso Series 31-32
LRC Series (Ligature Resistant) 33-34
Omega GRB Series 35-36

DEADBOLTS

CRB800 Series 37-38

II. GRADE 2

MECHANICAL

CRCODE200 Series 51-52

TUBULAR

Grand Series 49-50

CYLINDRICAL

Pioneer Series 39-40
Explorer Series 41-42
Tuscany Series 43-44
Commander Series 45-46
Challenger Series 47-48
Barrington BA Series 53-54

INTERCONNECTED

HIL Series 55-56
JHIL Series 57-58
CIL Series 59-60

DEADBOLT

T300 Series 63-64
SQ300 Series 61-62
T400 Series 65-66
CB160 Series 67-68
IND90-G2 Indicator Deadbolts 69
SL / T220 & BA / T220 Combo 71-72
T220 & GL220 Series 77-78

III. GRADE 3

CYLINDRICAL

Columbus Series 73-74
Epic Series 75-76

III. GRADE 3

MORTISE

Italia Series (NM) 100

DEADBOLT

LSD Series 79
IND84 Indicator Deadbolts Series 80
Chelsie Series 86
Clipper Series 92
Italia Series 102

TUBULAR

Legacy Series 91
Contemporary Series 89
Summit Series 90
Chelsie Series 83-84
Vanguard Series 87
Heritage Series 88
Ashley Series 82
Italia Series 96-99
INDLEV-20 Series (Commercial Grade) 81

HANDLESETS

Chelsie Series 85

IV. KEYS & KEYING

REPLACEMENT CYLINDERS

Key-in-Knob-Lever Cylinders 107
Rim Cylinders 107
Mortise Cylinders 107
Mortise and Rim Cylinders 108
Mortise Cylinder Accessories 108
Mortise Cylinder Cams 108
Small Format IC Cylinders 108
Large Format IC Cylinders 110

RESTRICTED CYLINDERS

Key-in-Knob-Lever Cylinders 111
Small Format IC Cylinders 111
Mortise Cylinders 111
Single Cylinder Deadbolt Kits 111
Double Cylinder Deadbolt Kits 111
Mortise and Rim Cylinder Kits 111
Key Blanks 111

HIGH SECURITY KEY (HSK) SYSTEM

Key-in-Knob-Lever Cylinders 112, 113
Mortise-Rim Combo Cylinder 112, 113
Small Format IC Cylinders 112, 114
Large Format IC Cylinders 112, 114
IC Housing 112, 115
HSK Accessories 116, 117
HSK Heavy Duty Deadbolts 115

CRP COMBI CYLINDER PROGRAM

Key-in-Knob-Lever Cylinders 118
Small Format IC Cylinders 118
Mortise Cylinders 118
Large Format Interchangeable Cores 118
European Profile Cylinders 118
CRP Combi Pinning Kits 119

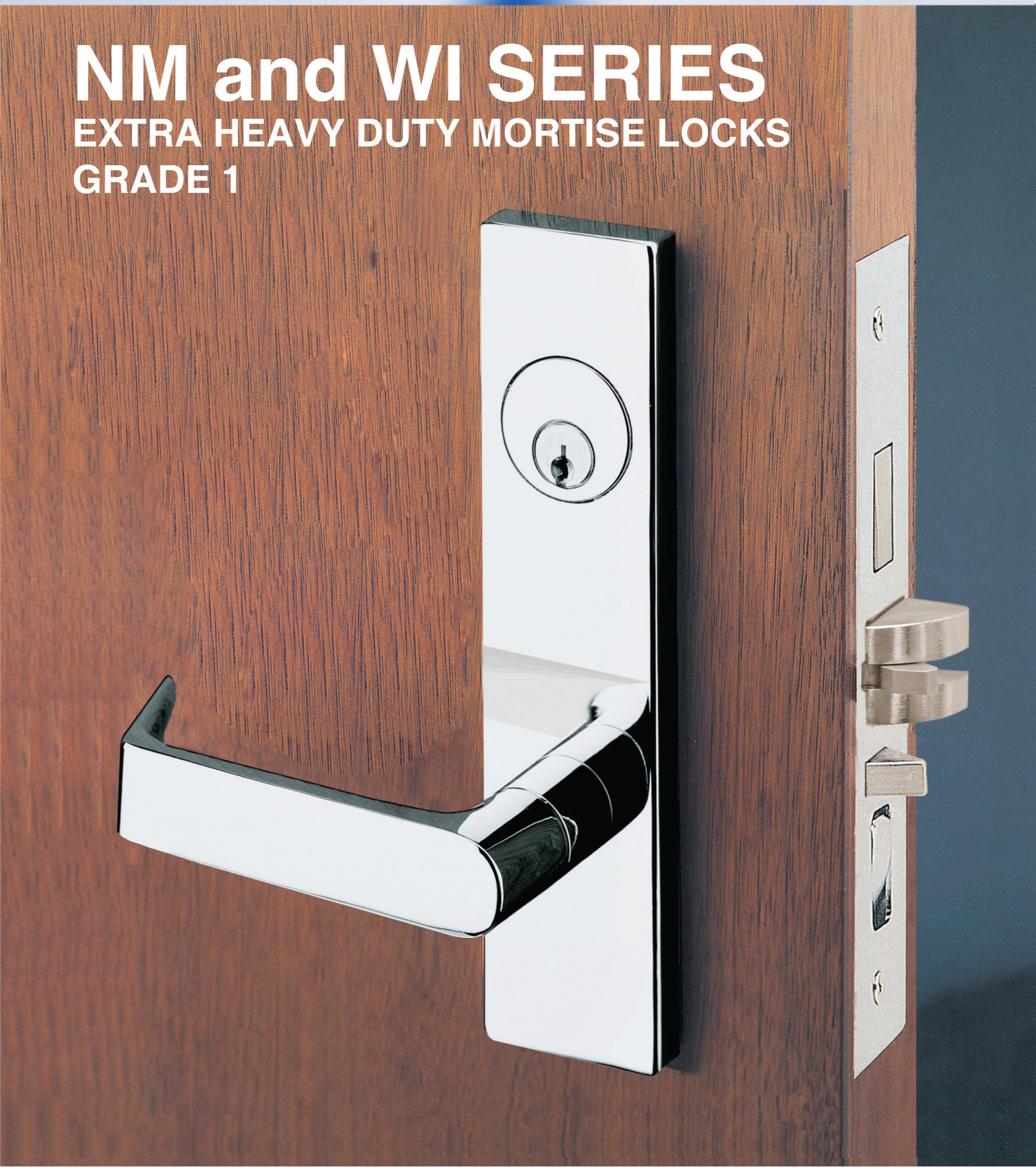
CAL-ROYAL
PRODUCTS, INC. U.S.A.

CRP SECURITIES USA

NM and WI SERIES

EXTRA HEAVY DUTY MORTISE LOCKS

GRADE 1



NM SERIES

Extra Heavy Duty Mortise Locks
ANSI BHMA A156.13 - 2017
Grade 1

LIFETIME WARRANTY

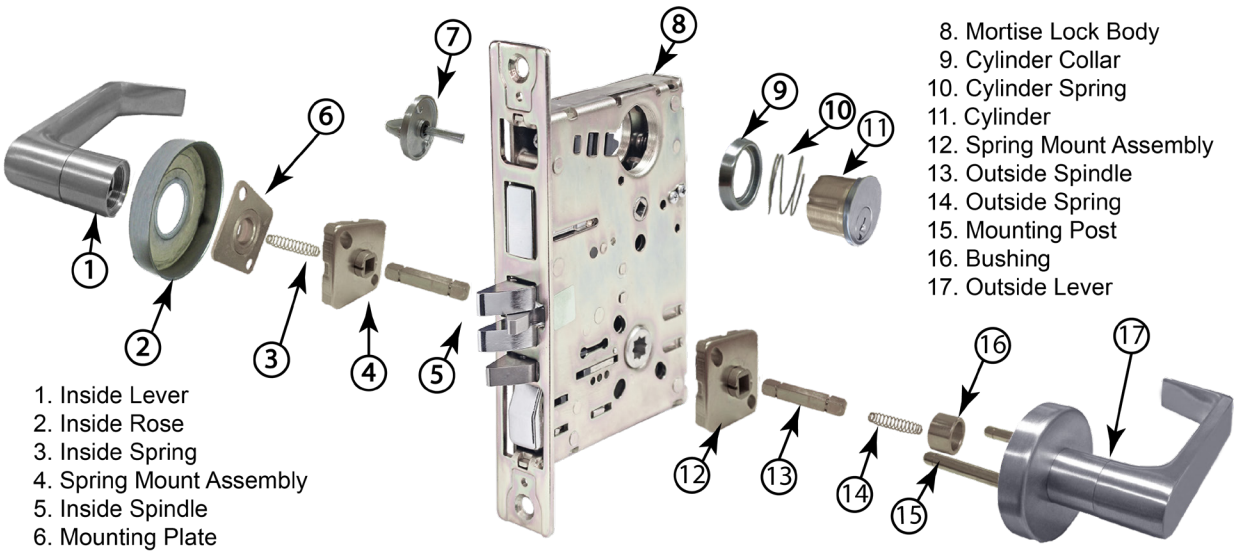
BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

3 HOUR FIRE RATED
UL10C, UBC7-2-1997

HURRICANE APPROVED HARDWARE
TEXAS EVALUATION ID
DR-472
ASTM E1886/E1996
ASTM E330
TAS 201, 202, 203

HURRICANE APPROVED HARDWARE
FLORIDA BUILDING CODE
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UL10B & UL10C

MEETS
The Buy American Act

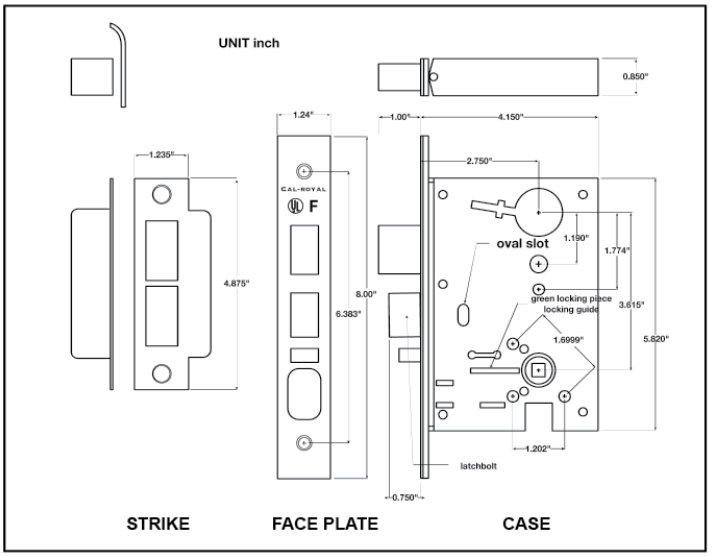


1. Inside Lever
2. Inside Rose
3. Inside Spring
4. Spring Mount Assembly
5. Inside Spindle
6. Mounting Plate
7. Thumb Turn
8. Mortise Lock Body
9. Cylinder Collar
10. Cylinder Spring
11. Cylinder
12. Spring Mount Assembly
13. Outside Spindle
14. Outside Spring
15. Mounting Post
16. Bushing
17. Outside Lever

FEATURES & SPECIFICATIONS

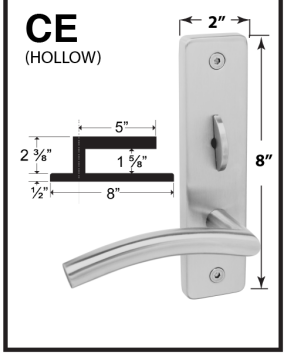
For Doors	1 ¾"
Backset	2 ¾"
Lockcase	Heavy gauge zinc chromate steel
Front	Heavy gauge steel 8" x 1 ¼" x $^{3}/_{32}$". Accommodates flat doors and doors beveled ⅛" in 2"
Armored Front	Wrought brass attached by machine screws to lock case front
Deadbolt	1" throw, brass chrome-plated with hardened steel rollers
Guard Bolt	Extruded brass, chrome plated
Stop Works	Rocker type, brass, chrome-plated
Strikes	Brass, non-handed curve strike 4 ⅞" x ¼". Curved-up strike available upon request
Handing	Handed. Easily field-reversible
Trim	As specified
Cylinder	As specified
Keyway	As specified
Finishes	As specified
UL Listing	UL Listed "A" Label (3 hours), for use on fire doors, single or pair of doors. "F" mark stamped on strike
ANSI / BHMA	Meets ANSI / BHMA A156.13, Series 1000, Operational & Security Grade 1 Standards. Lock body conforms to Federal Specification Type 86; and all dimensional and operational performances, Exceeds 1,000,000 cycles

- 100% internal parts quality inspection provides security, reliability and durability
- Available with Best, Falcon and Arrow (Small Format IC), Schlage, Corbin / Russwin, Sargent, and Yale Interchangeable core.
  - ICSC - Schlage LFIC
  - ICCR - Corbin / Russwin LFIC
  - ICSR - Sargent LFIC
  - ICYA - Yale LFIC
- Electrified Locks available.



NM SERIES
ESCUTCHEON TRIMS & FINISHES

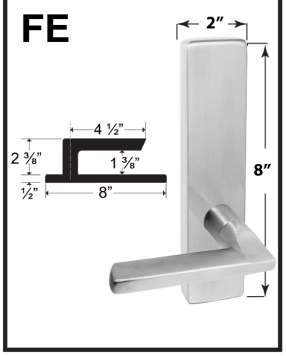
CE (HOLLOW)



DE Decorative Style



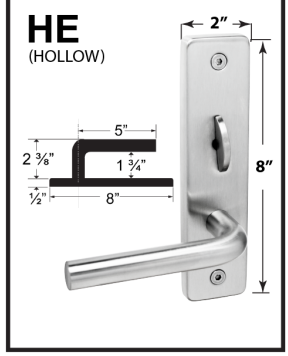
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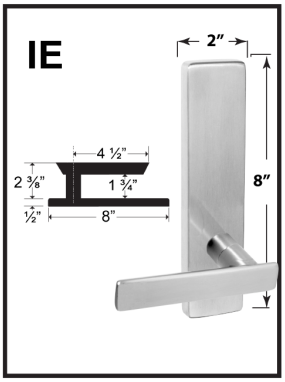
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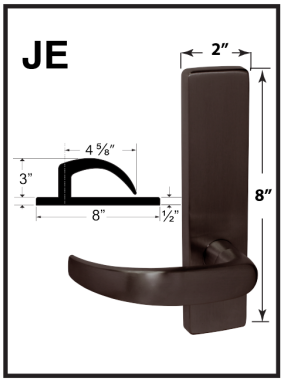
HE (HOLLOW)



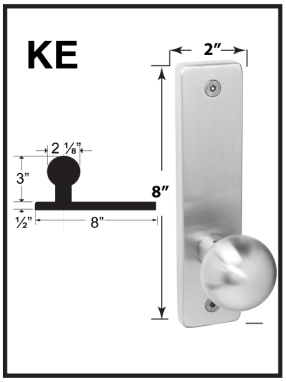
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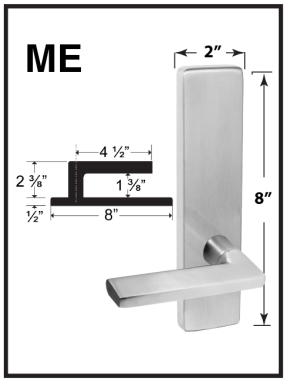
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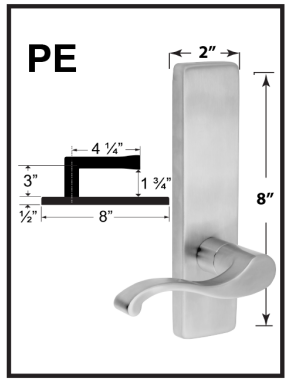
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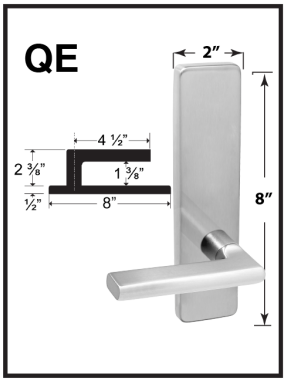
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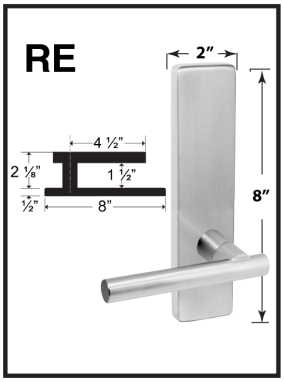
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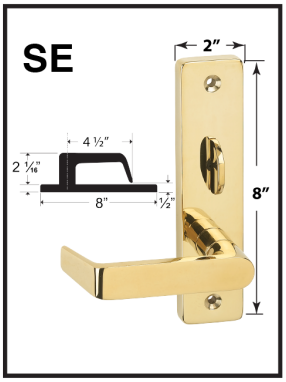
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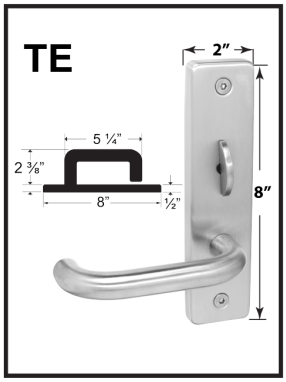
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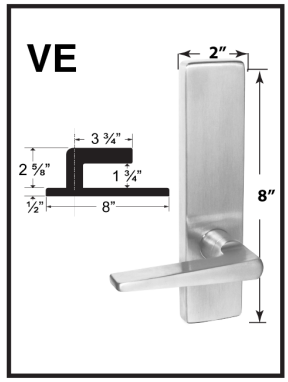
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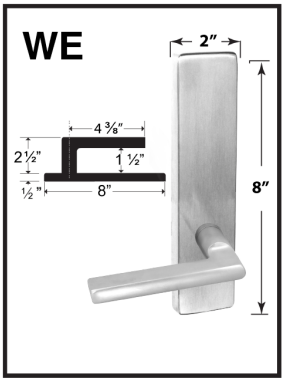
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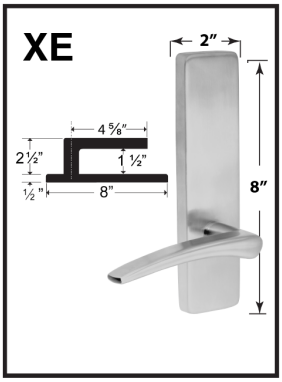
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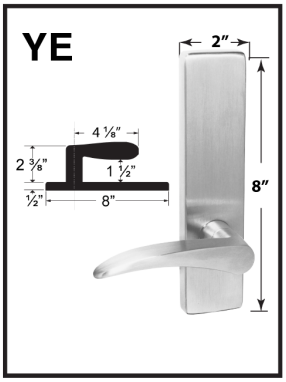
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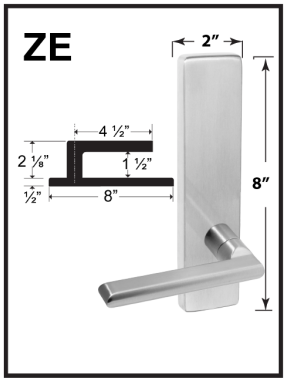
XE



YE



ZE



► **KEYWAYS AVAILABLE**
6 pin solid brass "C" keyway Mortise cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa and Kaba and Cal-Royal HSK High Security Cylinders.

► **WIDE ESCUTCHEON AVAILABLE**
All trim designs for standard escutcheon are available for "**WI**" wide escutcheon series. Specify design code when referencing "**WI**" Series in the Pricelist. Availability and finish subject to factory lead time and minimum order.

► **ESCUTCHEON DIMENSION**: 2 ½" w x 8 ¼" h x ½" t

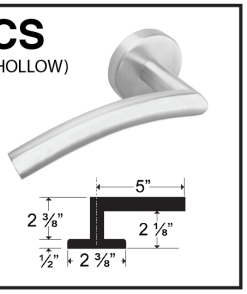
MEETS
The Buy American Act

LIFETIME WARRANTY

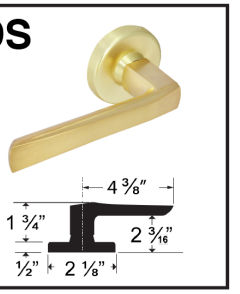
BHMA CERTIFIED
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NM SERIES
SECTIONAL TRIMS & FINISHES

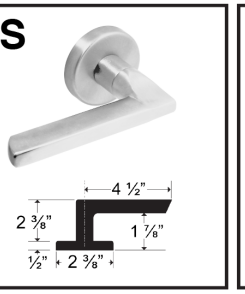
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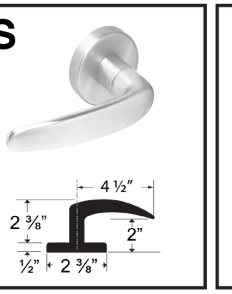
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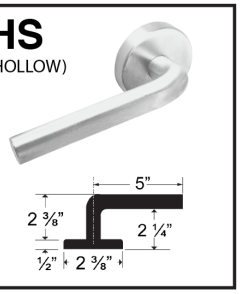
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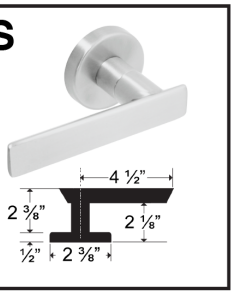
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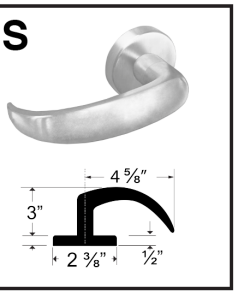
HS (HOLLOW)



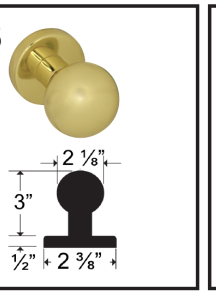
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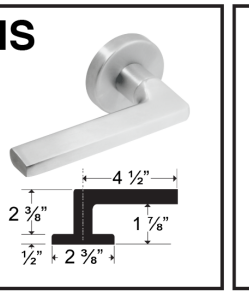
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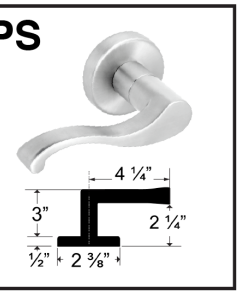
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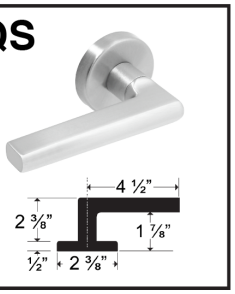
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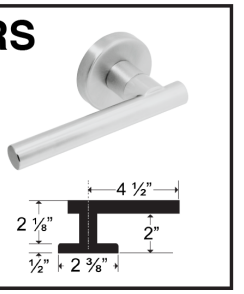
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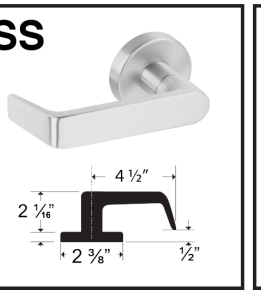
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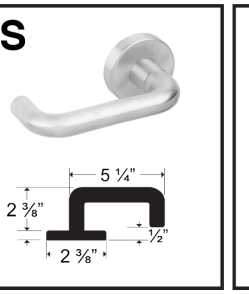
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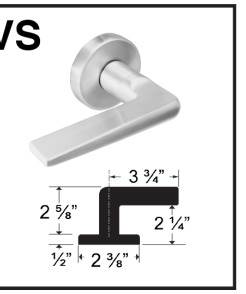
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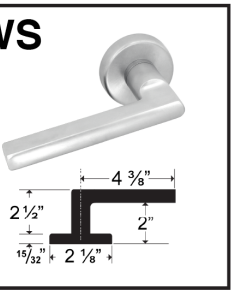
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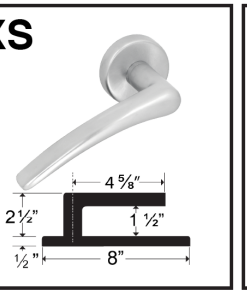
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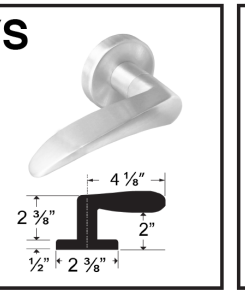
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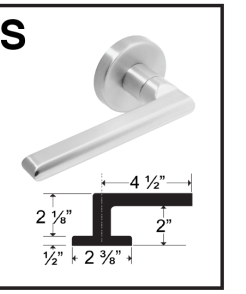
XS



YS



ZS



ITEM	MATERIAL
Rose	Brass / Stainless Steel
Levers	Brass / Zinc / Stainless Steel
Escutcheons	Brass / Zinc / Stainless Steel

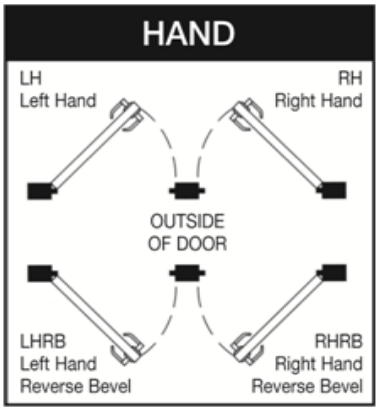
FINISHES		
Symbol	**BHMA**	**Description**
US3	605	Polished Brass
US4	606	Satin Brass
US10	612	Satin Bronze
US10B	613	Oil Rubbed Bronze
US19	622	Flat Black Coated
US26D	626	Satin Chrome
US26	625	Polished Chrome
US32D	630	Stainless Steel

MEETS
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LIFETIME WARRANTY

BHMA CERTIFIED
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HAND





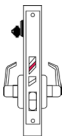
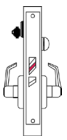
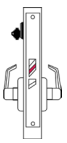
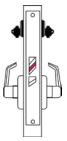
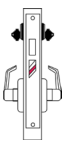
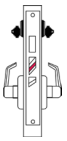
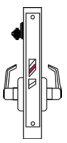
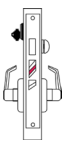
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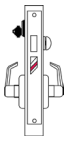
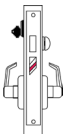
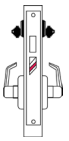
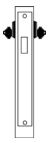
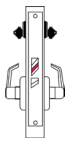
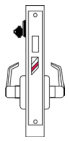
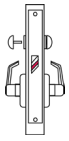
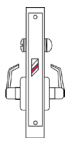


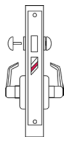
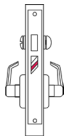
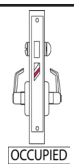
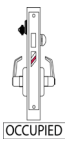
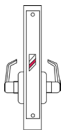
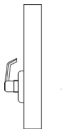
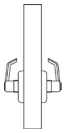
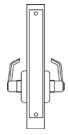
CLOVER CAM



ROSE

OUTSIDE INSIDE	SERIES / FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
	NM8050	Office / Entrance	F04	Latch bolt retracted by key outside and inside lever when outside lever is locked. Outside lever retracts latch bolt unless outside lever is locked by operating toggle button. Outside lever is locked and unlocked by toggle button. Key outside locks outside lever only. When latch bolt is retracted by inside lever, outside lever remains locked. Auxiliary latch deadlocks latch bolt when door is closed. Inside lever is always free for immediate exit.
	NM8056	NM8050 with Automatic Unlocking	---	Latch bolt retracted by knob / lever from either side unless outside is made inoperative by key outside or by rotating inside thumbturn. Outside knob / lever unlocked by key outside or thumbturn. Rotating inside knob / lever simultaneously retracts latch bolt and unlocks outside knob / lever. Auxiliary latch deadlocks bolt when door is locked. Inside knob / lever is always free of immediate egress.
	NM8070	Classroom	F05	Outside key locks and unlocks outside lever. Outside lever retracts latch bolt unless outside lever is locked by key. When outside lever is locked, unlocked from outside by key or by inside lever. Inside lever is always free for immediate exit. Auxiliary latch deadlocks latch bolt when door is closed.
	NM8071	Classroom Security Lock	F32	Latch bolt retracted by knob / lever from either side unless outside is locked by key from either side. When outside lever is locked, latch bolt is retracted by key outside or lever inside. Turning key from either side locks and unlocks outside lever. Auxiliary latch deadlocks latch bolt when door is locked. Inside knob / lever is always free for immediate egress.
	NM8457	Classroom Security Lock w/ Deadbolt	F33	Latch bolt retracted by outside lever from either side unless outside lever is locked by key from inside or outside. Deadbolt projected or retracted by key outside. Operating inside lever retracts both deadbolt and latch bolt simultaneously and unlock outside lever. Inside knob / lever is always free for immediate egress.
	NM8458	Classroom Security Lock w/ Deadbolt and Auxiliary Latch	F34	Latch bolt retracted by lever from either side unless outside lever is locked from inside or outside by key. Deadbolt projected or retracted by key outside. Operating inside lever retracts both bolts and unlocks outside lever. Auxiliary latch deadlocks latch bolt when door is closed or latch bolt deadlocks when deadbolt is projected. Inside lever is always free for immediate egress.
	M8463	Classroom Lock	F29	Deadbolt thrown or retracted by key from outside. Inside thumbturn cylinder retracts deadbolt but cannot project it.
	NM8080	Storeroom	F07	Latch bolt operated by key from outside or rotating inside lever, outside lever is always inoperative. Auxiliary latch deadlocks latch bolt when door is closed. Inside lever is always free for immediate egress.
	NM8480	Storeroom Lock with Deadbolt	---	Latch bolt retracted by key outside or by lever or knob inside. Outside knob / lever is always fixed. Deadbolt thrown or retracted by key outside or thumbturn inside. Turning inside knob / lever simultaneously retracts both deadbolt and latch bolt. Auxiliary latch deadlocks latch bolt when door is closed. Inside knob / lever is always free for immediate egress.
	NM8453	Entrance	F20	Latch bolt retracted by lever from either side unless outside lever is locked by operating toggle button. Deadbolt projected by key from outside or by thumbturn from inside. Both deadbolt and latch bolt are retracted by inside lever simultaneously. Latch bolt is deadlocked when outside lever is locked or when deadbolt is projected. Outside lever is unlocked by toggle button if deadbolt is retracted. Inside lever is always free for immediate egress.

OUTSIDE INSIDE	SERIES / FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
	**NM8456**	**Corridor**	**F13**	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by key outside or inside thumbturn. Throwing deadbolt locks outside knob / lever. Turning inside knob / lever simultaneously retracts deadbolt and latch bolt and unlocks outside knob / lever. Inside knob / lever is always free for immediate egress.
	**NM8473**	**Dormitory / Bedroom**	**F21**	Latch bolt retracted by knob or lever from either side. Deadbolt extended or retracted by key outside or thumb turn inside. Latch bolt and deadbolt are independent of each other.
	**M8460**	**Cylinder x Thumbturn Lock**	**F17**	Deadbolt thrown or retracted by key outside or thumbturn inside.
	**NM8466**	**Store Door Lock**	**F14**	Latch bolt operated by lever from either side. Deadbolt projected or retracted by key on either side. Latch bolt and deadbolt are independent of each other.
	**M8462**	**Double Cylinder Lock**	**F16**	Deadbolt operated by key from either side.
	**M8464**	**Cylinder Lock**	**F18**	Deadbolt thrown or retracted by key from outside only. No trim on opposite side.
	**NM8082**	**Asylum / Institution Lock**	**F30**	Latch bolt retracted by key from either side. Knob / lever on both sides always inoperative. Auxiliary latch deadlocks latch bolt when door is closed.
	**NM8465**	**Closet / Storeroom with Deadbolt**	**---**	Latch bolt retracted by knob or lever from either side. Deadbolt extended or retracted by key outside.
	**NM8040**	**Privacy Bedroom / Bath**	**F22**	Latch bolt retracted by knob / lever from either side unless outside is locked by inside thumbturn. Operating inside knob / lever, closing door, or operating outside emergency release unlocks outside knob / lever. Inside knob / lever is always free for immediate exit.
	**NM8044**	**Privacy w/ Coin Turn Outside**	**---**	Latch bolt retracted by knob / lever from either side unless outside is locked by inside thumbturn or outside coin turn. Operating inside knob / lever, closing door, rotating inside thumbturn or rotating outside coin turn unlocks outside knob / lever. Inside knob / lever is always free for immediate exit.

OUTSIDE INSIDE	SERIES / FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
	NM8440	Privacy with Deadbolt	F19	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by inside thumbturn. Throwing deadbolt locks outside knob / lever. Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt, and unlocks outside knob / lever. To unlock from outside, insert emergency thumbturn in access hole and rotate. Inside knob / lever is always free for immediate egress.
	NM8444	Privacy w/ Deadbolt and Coin Turn Outside	F19A	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by inside thumbturn or outside coin turn. Throwing deadbolt locks outside knob / lever. Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt, and unlocks outside knob / lever. Rotating outside coin turn retracts deadbolt and unlocks outside knob / lever. Inside knob lever is always free for immediate egress.
	NM8445	Privacy w/ Deadbolt, Coin Turn Outside and "OCCUPIED" Indicator	F19B	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by inside thumbturn or outside coin turn. Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate. Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt, and unlocks outside knob / lever. Rotating outside coin turn retracts deadbolt and unlocks outside knob / lever. Inside knob lever is always free for immediate egress.
	NM8495	Privacy with "OCCUPIED" Indicator	---	Knob / lever retracts latch bolt form either side. Dead bolt thrown or retracted by key outside (retraction by key required in the event of an emergency) or inside thumbturn. Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate. Rotating inside knob / lever simultaneously retracts both deadbolt and latch bolt and unlocks outside knob / lever. Inside lever is always free for immediate egress.
	NM8010	Passage	F01	Latch bolt operated by lever from either side at all times. Inside lever is always free for immediate exit.
	NM8170	Single Fixed Dummy	---	Lever on one side fixed by mounting bar is always rigid. Lever is used as door pull only.
	NM8172	Double Fixed Dummy	---	Lever on both sides fixed by mounting bar is always rigid. Lever is used as door pull only.
	NM8175	Single Dummy Trim with Lock Case	---	Lever on one side fixed on door surface is always rigid. Includes lock case and armored front.
	NM8176	Double Dummy Trim with Lock Case	---	Lever on both sides fixed on door surface and are always rigid. Includes lock case and blank armor front.

HEAVY DUTY ANSI A156.36 GRADE 1 SMALL LOCK CASE	NM SERIES MORTISE DEADBOLTS	HEAVY DUTY ANSI A156.13 GRADE 1 FULL MORTISE

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997



Lock Case:
3 15/16" x 3 5/8" x 1"
(100 mm x 92 mm x 25 mm)

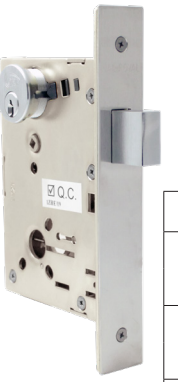
Faceplate:
1 ¼" x 5 19/32" x 7/32"
(32 mm x 142 mm x 6 mm)

Strike:
1 ⅛" x 3 ½" (29 mm x 89 mm)

- Any door in commercial or institutional buildings where the best auxiliary Mortise deadbolt locks are required
- **Backset:** 2 ¾" (70 mm)
- **Door Range:** 1 ¾" (44 mm), available to 2 ¼" (57 mm). Specify thickness if other than 1 ¾".
- **Deadbolt:** 1" (25 mm) throw, stainless steel, can withstand cutting or sawing
- **Cylinder:** 1 ⅛" Mortise cylinder Schlage "C" (standard). Otherwise specify
- **Heavy Gauge Steel Lock Case**
- **Brass Deadbolt with Hardened Steel Inserts 1" Throw**
- **Architectural Finishes including stainless steel available**

Mortise Cylinder
- Cylinder length is 1 ⅛" (under shoulder including cam)
- With clover leaf cam





c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

NM SERIES	
LOCK CASE	4" x 5 ¾" x 1"
	102 mm x 146 mm x 25.4 mm
FACE PLATE	1 ¼" x 8" x ⅛"
	32 mm x 203 mm x 3.175 mm
STRIKE	1 ¼" x 4 ⅞"
	32 mm x 124 mm

MODEL #	FUNCTIONS	MODEL #
SM4608 ANSI E06071	**Cylinder and Thumbturn** Deadbolt thrown or retracted by key outside or thumbturn inside	**M8460** ANSI F17
SM4628 ANSI E06061	**Double Cylinder** Deadbolt operated by key on either side	**M8462** ANSI F16
SM4638 ANSI E06091	**Classroom Lock** Deadbolt thrown or retracted by key from outside. Inside cylinder turn retracts deadbolt but cannot project it. **Specify handing.**	**M8463** ANSI F29
SM4648 ANSI E06081	**Cylinder Lock** Deadbolt thrown or retracted by key from one side. No trim on opposite side	**M8464** ANSI F18
SM4808	**Door Bolt** Deadbolt thrown or retracted by thumbturn from one side. No trim on opposite side	**M8480**
SM4968 OCCUPIED	**Deadbolt With "Occupied" Indicator** Deadbolt thrown or retracted by key outside or thumbturn inside. When deadbolt is thrown "OCCUPIED" plate is displayed	**M8496** OCCUPIED

PACKAGING INCLUDES
- UL listed single point latch
- Standard "C", 6 pin cylinder
- Non-handed strike

OPTIONAL INTERCHANGEABLE CORE

For **Best, Falcon and Arrow** Interchangeable Core prefix "**IC**" before Part#.
(Mortise housing Part# ICH961387)

For **Schlage** Large Format Interchangeable Core prefix "**ICSC**" before Part#.
For **Corbin / Russwin** Large Format Interchangeable Core prefix "**ICCR**" before Part#.
For **Sargent** Large Format Interchangeable Core prefix "**ICSA**" before Part#.
For **Yale** Large Format Interchangeable Core prefix "**ICYA**" before Part#.
(Mortise housing Part# 7000ICMC)



ADDITIONAL KEYWAYS
6 pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal HSK High Security Cylinders.

NM SERIES

Kits and Accessories

► ADA Thumbturn

Optional Disability Turn (ADA) on applicable mortise locks.
Prefix "**ADA**" before Mortise lock PART#.



ADA THUMBTURN

► QUICKMARK TEMPLATE

Available heavy duty steel template for fast and easy installation.
Reduces installation time. Eliminates using paper templates.
Use PART# "**MTCAL**".

► FOR 2" up to 2 ¼" Thick door

Order kit:
SSMKIT214 – for sectional trim
SEMKIT214 – for escutcheon trim



QUICKMARK TEMPLATE

► TACTILE

Available on request. Use PART# "**TAC**".

► LEAD LINING

Available on request. Use PART# "**LEAD**".

► ANTI MICROBIAL COATING

Available on request on US26D and US32D finishes.
Longer factory lead time usually applies.
Specify "**ANTB**" when ordering.

► HOW TO CHANGE HANDING

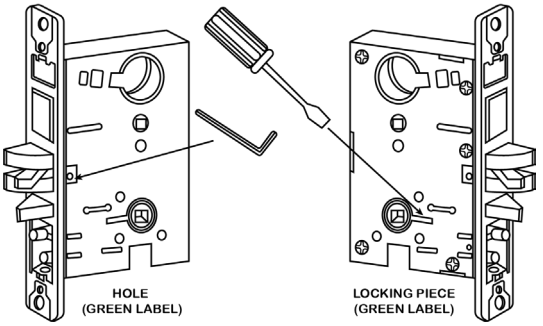
1. Use hex key to unfasten screw in the hole behind latch bolt (green label).
2. Pull latch bolt out until it is entirely away from the lock case.
3. Rotate latch bolt to adjust handing.
4. Fasten the screw tightly into the hole and glue with threadlocker (loctite 242).
5. Use blade screwdriver to flip locking piece (green label) forward twice to front side.
6. Handing is completely reversed.

HOW TO ORDER NM SERIES

NM - 8050 - SS - RH - US26D

SERIES (NM)
FUNCTION (OFFICE)
TRIM (SS DESIGN SECTIONAL)
HANDING (RIGHT HAND)
FINISH (SATIN CHROME)

HOW TO CHANGE HANDING



WARNING!

Please read the instruction on the installation guide about the correct position of spring cage.

Privacy Indicators

Privacy with Key Outside and "OCCUPIED" Indicator NM8495

- Deadbolt thrown or retracted by key outside or inside thumbturn
- Knob / lever retracts latch bolt from either side
- Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate
- Rotating inside knob / lever simultaneously retracts both deadbolt and latch bolt and unlocks outside knob / lever
- Inside lever is always free for immediate egress



Privacy with Deadbolt, Coin Turn Outside and "OCCUPIED" Indicator NM8445

- Deadbolt thrown or retracted by inside thumbturn or outside coin turn
- Rotating outside coin turn retracts deadbolt and unlocks outside knob / lever
- Latch bolt retracted by knob / lever from either side
- Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate
- Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt and unlocks outside knob / lever
- Inside lever is always free for immediate egress



NM300 Series

ELECTRIFIED MORTISE LOCKS

Available with or without deadbolt

FEATURES:

- UL and CUL Listings
- Continuous duty solenoids for cooler operation during "continuously on" applications
- Low current draw
- Numerous switch options
- 3 year "No Hassle" warranty

HOW TO ORDER ELECTRIFIED NM300 SERIES

- Use **NM Models** if ordered as an **ELECTRIFIED LOCK CASE ONLY**.
- Use **ENM Models** if ordered as a complete lock **with ADD-ON list price**.

Must Specify: NM Series item # and Electrification Option (refer to table below) separately.

For Example: NM8080SSRH US26D with ENM300 (EL 12V) option,
Order: NM8080SSRH US26D and **ENM300-RH as two line items.**

OPTIONS:

- Voltage requirement -12V DC or 24V DC
- Amperage - 300mA @ 12V or 130mA @ 24V
- Solenoid coil resistance - 12V = 39.4 Ω or 24V = 173 Ω
- Power consumption - 3.65W @ 12V or 3.3W @ 24V
- Function – available Fail Safe, "Electrically Locked" (**EL**) or Fail Secure, "Electrically Unlocked" (**EU**)

► **HANDING: Non-Reversible. Must specify Left Hand (LH) or Right Hand (RH) when ordering.**

REFER TO PRICELIST FOR STOCK FINISHES AND FUNCTIONS

► **RX** – Request to Exit Switch (Monitors the inside handle)

► **LBM** – Latch Bolt Monitoring Switch (Monitors the position of latch bolt)

► **DPS** – Door Position Switch (*Sold Separately. Not installed on the lock.)

ELECTRIFICATION OPTIONS (WITHOUT DEADBOLT)							ELECTRIFIED LOCK CASE ONLY
MODEL #	EL	EU	12	24	RX	LBM	MODEL #
ENM300	✓		✓				NM300
ENM301	✓		✓		✓		NM301
ENM302	✓		✓			✓	NM302
ENM303	✓		✓		✓	✓	NM303
ENM304	✓			✓			NM304
ENM305	✓			✓	✓		NM305
ENM306	✓			✓		✓	NM306
ENM307	✓			✓	✓	✓	NM307
ENM308		✓	✓				NM308
ENM309		✓	✓		✓		NM309
ENM310		✓	✓			✓	NM310
ENM311		✓	✓		✓	✓	NM311
ENM312		✓		✓			NM312
ENM313		✓		✓	✓		NM313
ENM314		✓		✓		✓	NM314
ENM315		✓		✓	✓	✓	NM315

ELECTRIFICATION OPTIONS (WITH DEADBOLT)							ELECTRIFIED LOCK CASE ONLY
MODEL #	EL	EU	12	24	RX	LBM	MODEL #
ENM316	✓		✓				NM316
ENM317	✓		✓		✓		NM317
ENM318	✓		✓			✓	NM318
ENM319	✓		✓		✓	✓	NM319
ENM320	✓			✓			NM320
ENM321	✓			✓	✓		NM321
ENM322	✓			✓		✓	NM322
ENM323	✓			✓	✓	✓	NM323
ENM324		✓	✓				NM324
ENM325		✓	✓		✓		NM325
ENM326		✓	✓			✓	NM326
ENM327		✓	✓		✓	✓	NM327
ENM328		✓		✓			NM328
ENM329		✓		✓	✓		NM329
ENM330		✓		✓		✓	NM330
ENM331		✓		✓	✓	✓	NM331

► ***Electrified Mortise Lock Case can be purchased separately. Refer to table above for options***

CRP SECURITIES USA

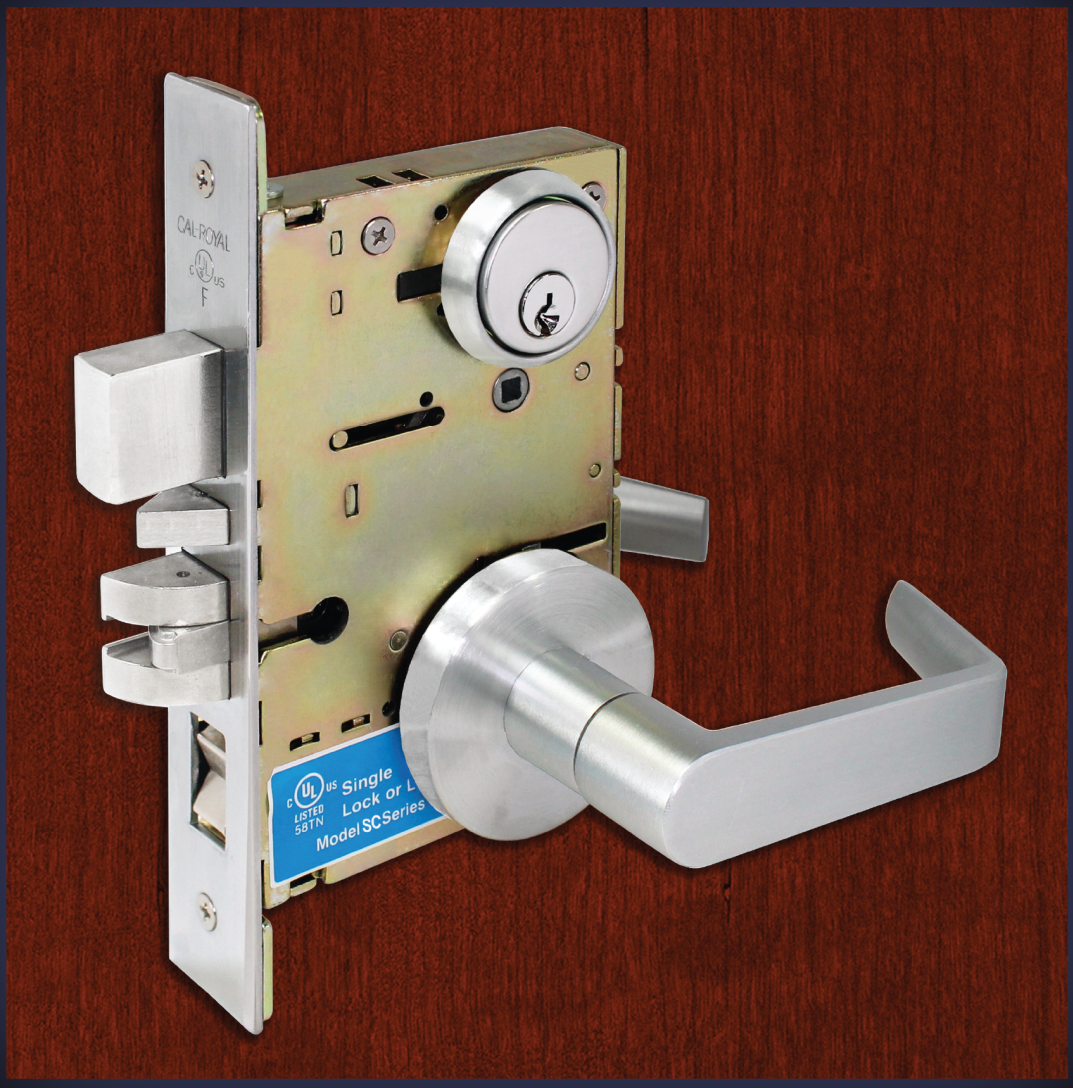
CAL-ROYAL
PRODUCTS, INC. U.S.A.

CAL-ROYAL PRODUCTS, INC. USA

SC SERIES

EXTRA HEAVY DUTY MORTISE LOCKS WITH *CLUTCH* GRADE 1

RETROFITS SCHLAGE L9000 SERIES MORTISE LOCKS



Architectural Hardware

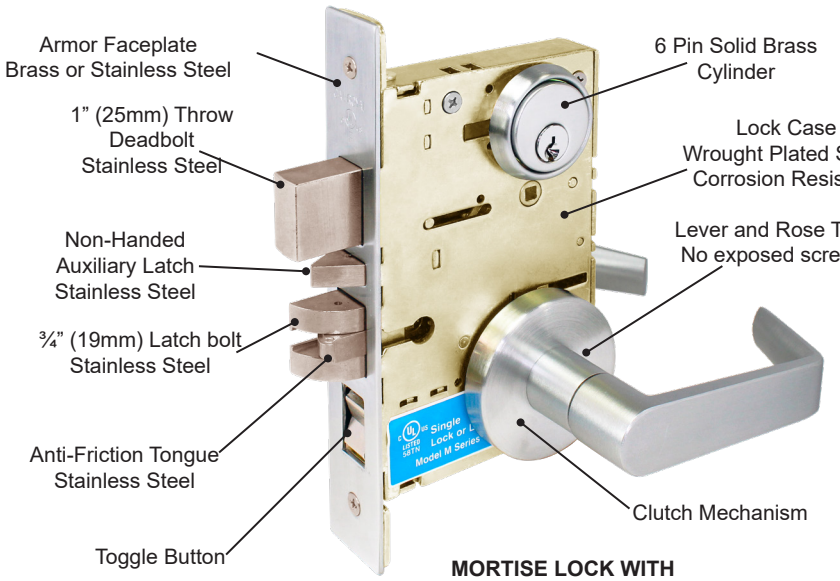
SC SERIES

Grade 1 Extra Heavy Duty Mortise Locks with CLUTCH free-wheeling ANSI BHMA A156.13 - 2017

3 HOUR FIRE RATED UL10C, UBC7-2-1997

MEETS *The Buy American Act*

BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.



MORTISE LOCK WITH ROSE AND SECTIONAL LEVER TRIM



MORTISE LOCK WITH WIDE ESCUTCHEON AND LEVER TRIM

- Can retrofit Schlage L9000 Series mortise lock without drilling any additional holes on the door for sectional and escutcheon trims
- Fully reversible design
- No exposed mounting screws on outside and inside trims
- Outside lever has a Clutch (Free-Wheeling design). The lever rotates when the lever is locked preventing excessive force from being applied to the horizontal lever. The design decreases the chance of the lever being broken or damaged
- Lock body conforms to all dimensional and operational performances of ANSI A156.13, Grade 1, exceeds 1,000,000 cycles

SPECIFICATIONS

FOR DOORS
1 ¾" (44.5mm) thick standard. For doors over 1 ¾" (44.5mm), specify door thickness

LOCK HAND
Lock bodies are easily field reversible, no need to specify hand when ordering

BACKSET & STRIKE
2 ¾" (70mm) only backset. Brass or stainless steel strike; ANSI Standard A115.1; curve lip with dust box

LOCK CASE
Heavy Duty wrought steel, zinc dichromate plated

CENTER TO CENTER
Center of lever to center of cylinder is 3 7/8" (98mm)

ARMOR FACEPLATE
Brass or stainless steel; 8" x 1 7/32" (203mm x 31.3mm); ANSI Standard A115.1

DEADBOLT
1" (25.4mm) throw; hardened stainless steel

LATCH BOLT
¾" (19mm) throw; one-piece stainless steel with anti-friction reversible tongue

CYLINDER & KEYWAYS
6-pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal HSK High Security Cylinders.

INTERCHANGEABLE CORE (IC)
Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW (SFIC). Also available with SCHLAGE, CORBIN / RUSSWIN D-1 thru 4, SARGENT LA , and YALE GA Large Format Cylinders.

TOGGLE BUTTON
High rust-resistant chrome plated zinc alloy

MASTER KEYING
Can be master-keyed or grand master-keyed, construction keying available

FINISHES: US3, 4, 10, 10B, 19, 26, 26D, 32, 32D

AUXILIARY LATCH: Stainless Steel, non-handed

CERTIFICATIONS

ANSI / BHMA	Meets ANSI / BHMA A156.13, Series 1000, Operational & Security Grade 1 Standards
UL / cUL	UL and UL Listed to Canadian safety standard for A label (3-hour fire door); stamped letter F and UL symbol on armor faceplate
POSITIVE PRESSURE	Meets positive pressure requirements UL 10C and UBC 7-2 (1997)
ADA	Meets ADA requirements, specifically designed for Barrier Free Application

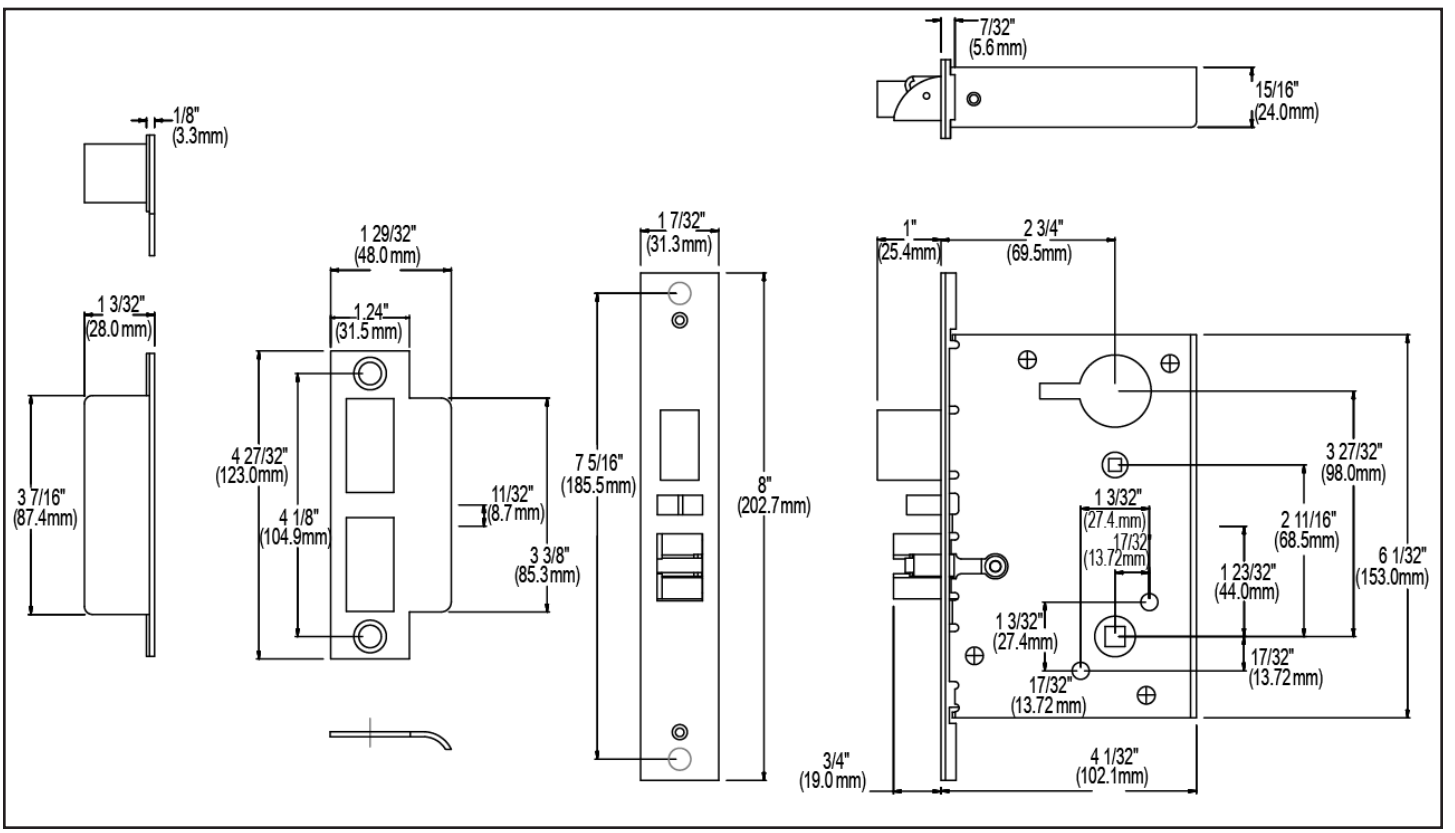
c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

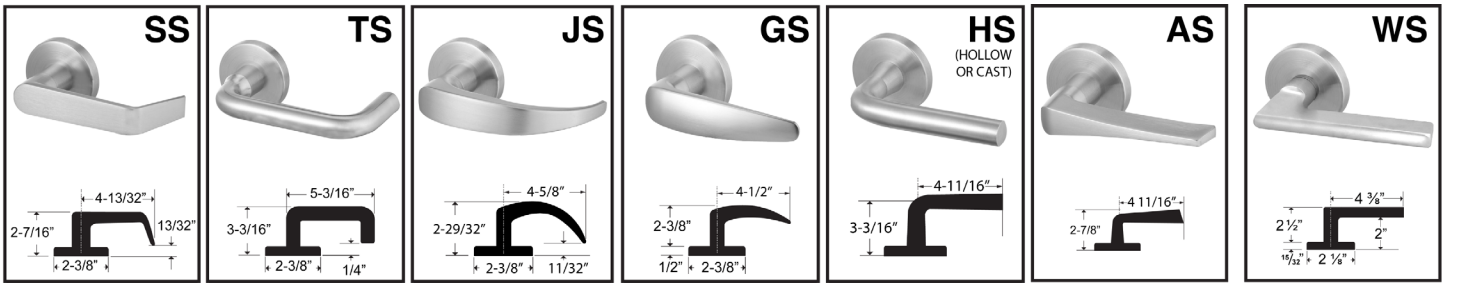
MEETS
The Buy American Act

DIMENSIONS

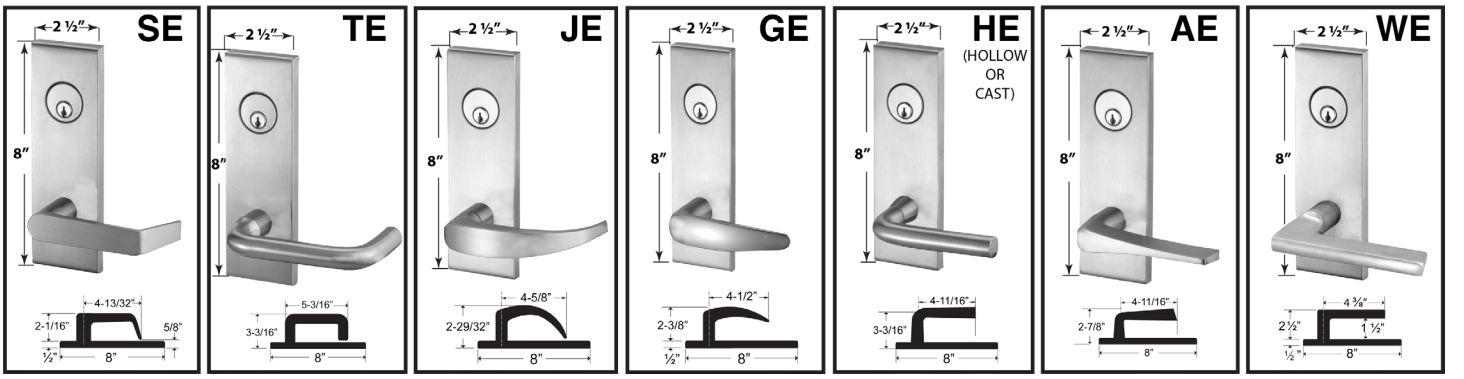


SC SERIES
TRIMS & FINISHES

SECTIONAL

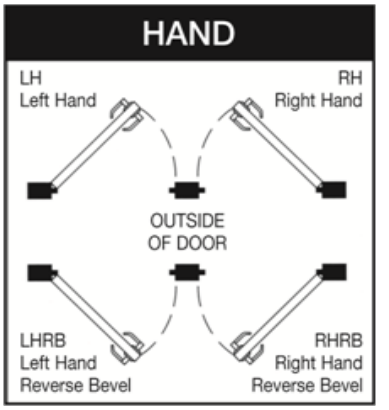


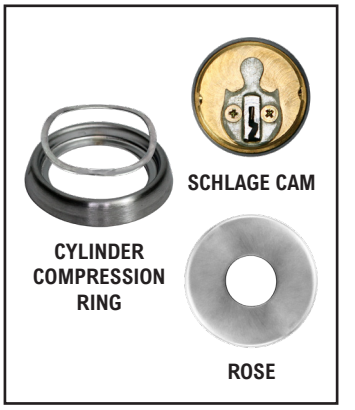
WIDE ESCUTCHEON



FINISHES		
Symbol	**BHMA**	**Description**
US3	605	Polished Brass
US4	606	Satin Brass
US10B	613	Oil Rubbed Bronze
US19	622	Flat Black Coated
US26	625	Polished Chrome
US26D	626	Satin Chrome
US10	612	Satin Bronze
US32D	630	Stainless Steel

ITEM	MATERIAL
Rose	Brass / Stainless Steel
Levers	Brass / Zinc / Stainless Steel
Escutcheons	Brass / Zinc / Stainless Steel





- Available with Best, Falcon and Arrow (Small Format IC), Schlage, Corbin / Russwin, Sargent, and Yale Interchangeable core.
  - ICSC - Schlage LFIC
  - ICCR - Corbin / Russwin LFIC
  - ICSR - Sargent LFIC
  - ICYA - Yale LFIC

SC SERIES

Kits and Accessories

▶ ADA Thumbturn

Optional Disability Turn (ADA) on applicable mortise locks.
Prefix "ADA" before Mortise lock PART#.
Order kit: SCSADA - ADA Thumbturn for Sectional
SCEADA - ADA Thumbturn for Escutcheon



▶ for 2" up to 2 ¼" thick doors

Order kit: SCSKIT200 – for sectional trim
SCEKIT214 – for escutcheon trim

HOW TO ORDER (SC SERIES)

SC8050 - SS - US26D

FUNCTION (OFFICE)
TRIM (SS DESIGN SECTIONAL)
FINISH (SATIN CHROME)

ALL PRODUCTS ARE SHIPPED NON-HANDED. EASILY FIELD REVERSIBLE.

Indicator Mortise Locks

Privacy with Key Outside and "OCCUPIED" Indicator
SC8495

- Deadbolt thrown or retracted by key outside or inside thumbturn
- Knob / lever retracts latch bolt from either side
- Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate
- Rotating inside knob / lever simultaneously retracts both deadbolt and latch bolt and unlocks outside knob / lever
- Inside lever is always free for immediate egress

Faculty Restroom with Key Outside and "OCCUPIED" Indicator
SC8486

- Latch bolt retracted by key outside or by knob / lever inside. Outside knob / lever always fixed
- Deadbolt thrown or retracted by inside thumbturn
- When deadbolt is thrown, "OCCUPIED" plate is displayed and all keys become inoperative except emergency keys
- Turning inside knob / lever simultaneously retracts both deadbolt and latch bolt
- Auxiliary latch deadlocks latch bolt when door is locked
- Inside lever is always free for immediate egress

Privacy with Deadbolt, Coin Turn Outside and "OCCUPIED" Indicator
SC8445

- Deadbolt thrown or retracted by inside thumbturn or outside coin turn
- Rotating outside coin turn retracts deadbolt and unlocks outside knob / lever
- Latch bolt retracted by knob / lever from either side
- Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate
- Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt and unlocks outside knob / lever
- Inside lever is always free for immediate egress

SC8495
SC8486





SC8445





▶ TACTILE

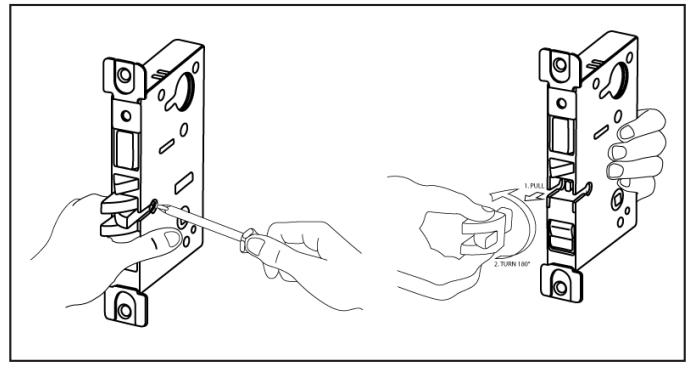
Available on request. Use PART# "**TAC**".

▶ LEAD LINING

Available on request. Use PART# "**LEAD**".

▶ ANTI MICROBIAL COATING

Available on request on US26D and US32D finishes. Longer factory lead time usually applies. Specify "**ANTB**" when ordering.



▶ HOW TO CHANGE HANDING

If the handing of the latch bolt does not match the door handing, remove locking screw and pull latch bolt out from lock case, then turn 180°, making the bevel of the latch bolt face the opposite hand. Replace the latch bolt and fasten the locking screw.

SC400 Series

RETROFITS SCHLAGE L9000
(direct chassis replacement)

ELECTRIFIED MORTISE LOCKS

Available with or without deadbolt

FEATURES:

- UL and CUL Listings
- Continuous duty solenoids for cooler operation during "continuously on" applications
- Allows for an AC or DC power source through an appropriate power supply. No polarity.
- Low current draw
- Numerous switch options
- 3 year "No Hassle" warranty

OPTIONS:

- Voltage requirement -12V AC / DC or 24V AC / DC
- Amperage - 600mA ±10% @ 12V or 300mA ±10% @ 24V
- Solenoid coil resistance - 12V = 20 Ω ±5% or 24V = 80 Ω ±5%
- Power consumption - 7.2 watts ±10%
- Function – available Fail Safe, "Electrically Locked" (**EL**) or Fail Secure, "Electrically Unlocked" (**EU**)

HOW TO ORDER ELECTRIFIED SC400 SERIES

- Use **SC Models** if ordered as an **ELECTRIFIED LOCK CASE ONLY**.
- Use **ESC Models** if ordered as a complete lock **with ADD-ON list price**.

Must Specify: SC Series item # and Electrification Option (refer to table below) separately.

For Example: SC8080SS US26D with ESC400 (EL 12V) option,

Order: SC8080SS US26D and **ESC400 as two line items.**

► **RX** – Request to Exit Switch (Monitors the inside handle)

► **LBM** – Latch Bolt Monitoring Switch (Monitors the position of latch bolt)

► **DPS** – Door Position Switch (*Sold Separately. Not installed on the lock.)

REFER TO PRICELIST FOR STOCK FINISHES AND FUNCTIONS

ELECTRIFICATION OPTIONS (WITHOUT DEADBOLT)							ELECTRIFIED LOCK CASE ONLY
MODEL #	EL	EU	12	24	RX	LBM	MODEL #
ESC400	✓		✓				SC400
ESC400-RX	✓		✓		✓		SC400-RX
ESC400-LBM	✓		✓			✓	SC400-LBM
ESC400-RXLBM	✓		✓		✓	✓	SC400-RXLBM
ESC404	✓			✓			SC404
ESC404-RX	✓			✓	✓		SC404-RX
ESC404-LBM	✓			✓		✓	SC404-LBM
ESC404-RXLBM	✓			✓	✓	✓	SC404-RXLBM
ESC408		✓	✓				SC408
ESC408-RX		✓	✓		✓		SC408-RX
ESC408-LBM		✓	✓			✓	SC408-LBM
ESC408-RXLBM		✓	✓		✓	✓	SC408-RXLBM
ESC412		✓		✓			SC412
ESC412-RX		✓		✓	✓		SC412-RX
ESC412-LBM		✓		✓		✓	SC412-LBM
ESC412-RXLBM		✓		✓	✓	✓	SC412-RXLBM

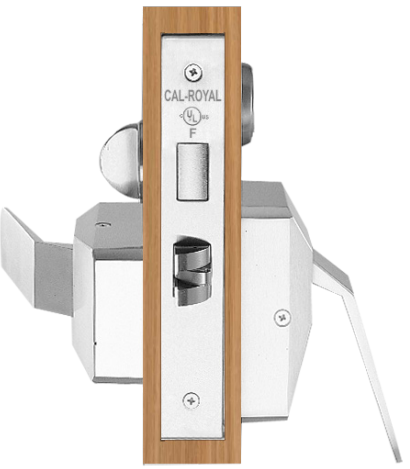
ELECTRIFICATION OPTIONS (WITH DEADBOLT)							ELECTRIFIED LOCK CASE ONLY
MODEL #	EL	EU	12	24	RX	LBM	MODEL #
ESC416	✓		✓				SC416
ESC416-RX	✓		✓		✓		SC416-RX
ESC416-LBM	✓		✓			✓	SC416-LBM
ESC416-RXLBM	✓		✓		✓	✓	SC416-RXLBM
ESC420	✓			✓			SC420
ESC420-RX	✓			✓	✓		SC420-RX
ESC420-LBM	✓			✓		✓	SC420-LBM
ESC420-RXLBM	✓			✓	✓	✓	SC420-RXLBM
ESC424		✓	✓				SC424
ESC424-RX		✓	✓		✓		SC424-RX
ESC424-LBM		✓	✓			✓	SC424-LBM
ESC424-RXLBM		✓	✓		✓	✓	SC424-RXLBM
ESC428		✓		✓			SC428
ESC428-RX		✓		✓	✓		SC428-RX
ESC428-LBM		✓		✓		✓	SC428-LBM
ESC428-RXLBM		✓		✓	✓	✓	SC428-RXLBM

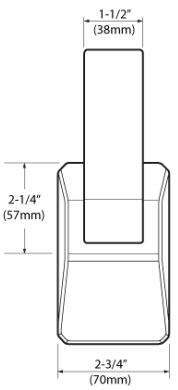
► *Electrified Mortise Lock Case can be purchased separately. Refer to table above for options*

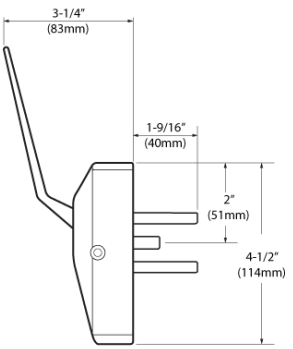
SC SERIES

Grade 1 Heavy Duty Hospital Latch HL Trims
Push-Pull Trim with Mortise Lock









FEATURES

- The push-pull trim can be mounted in vertical (up or down) and horizontal applications in the field
- Through-bolted design for trims with lockcase for more stability
- Handing is easily field reversible
- Fits 1 ¾" (44mm) thick standard RHR or LHR hollow metal doors & wood doors, over 1 ¾" (44mm) is also available (specify door thickness when ordering)
- Push-Pull trim is non-handed, easy installation
- Mortise lock functions available (recommended): F01, F04, F05, F09, F11, F13, F14, F19 F20, F22, F30
- Handles are cast stainless steel, corrosion protected
- Patented in USA and UL Listed
- Available in BHMA finishes

SC SERIES

GRADE 1 • HEAVY DUTY • ANSI A156.13 - 2017
LIGATURE RESISTANT (LG) MORTISE LOCK TRIM



ESCUTCHEON LEVER (LGE)



ESCUTCHEON KNOB (LGX)



SECTIONAL LEVER (LGS)



SECTIONAL KNOB (LGK)

FEATURES

- ANSI A156.13-2017 Grade 1 Mortise locks
- Outside lever clutch free-wheeling design.
- The lever rotates when the lever is locked preventing excessive force from being applied to the horizontal lever. This design decreases the chance of the lever being broken or damaged
- Ligature Resistant lever design helps to prevent intentional or accidental hanging
- Anti-vandal cylinder guard is standard, deters forcible removal of cylinder with any type of wrench or hammer
- Different functions available to satisfy individual security and safety requirements
- Tamper resistant concealed mounting set screws
- Non-handed, fully field reversible
- Heavy duty escutcheon and sectional trim available
- No exposed mounting screws
- Can retrofit Schlage L9000 Series mortise lock bodies
- Trim Suffixes: **S**-Lever Sectional **E**-Lever Escutcheon
  K-Knob Sectional **X**-Knob Escutcheon

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

MEETS
The Buy American Act

LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

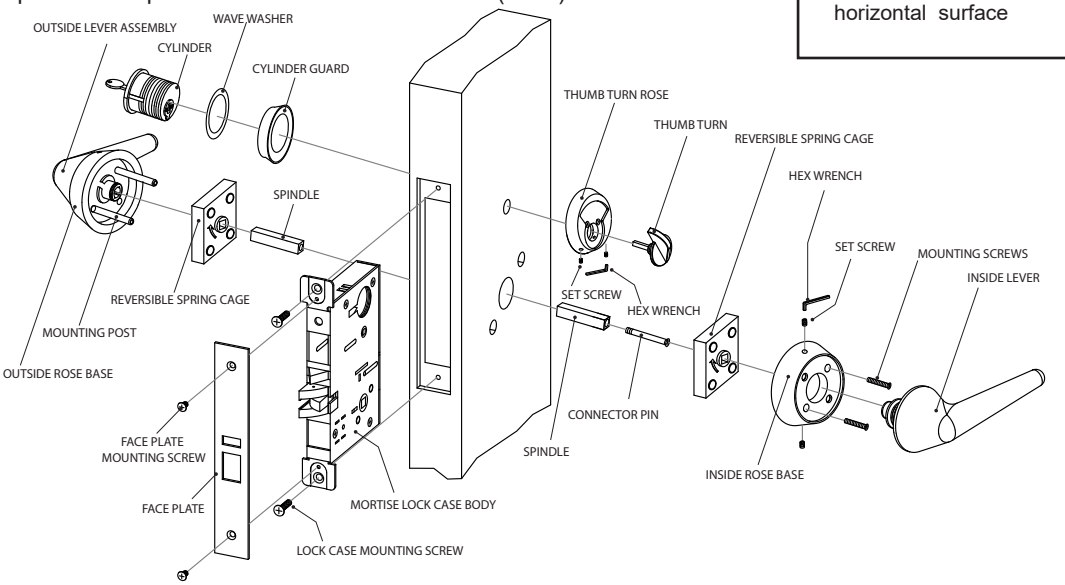


LIGATURE RESISTANT THUMBTURN

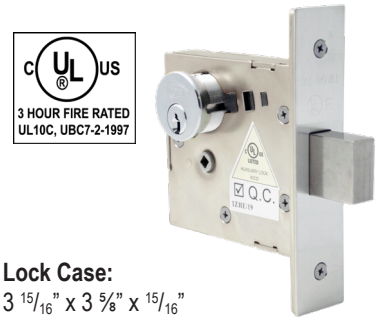
- Positive stop design
- Prevents over extension
- Eliminates presentation of horizontal surface

CERTIFICATIONS

- Meets ANSI / BHMA A156.13 Series 1000 Grade 1 Requirements
- UL and cUL listed to Canadian safety standard for A label (3-hour fire door); stamped letter “F” and UL symbol on armor faceplate
- Meets positive pressure requirements UL 10C and UBC 7-2 (1997)



HEAVY DUTY ANSI A156.36 GRADE 1 SMALL LOCK CASE



3 HOUR FIRE RATED UL10C, UBC7-2-1997

Lock Case:
3 15/16" x 3 5/8" x 15/16"
(100 mm x 92 mm x 25 mm)

Faceplate:
1 1/4" x 5 5/8" x 1 7/32"
(32 mm x 142 mm x 6 mm)

Strike:
1 1/8" x 3 1/2" (29 mm x 89 mm)

SC SERIES MORTISE DEADBOLTS

Any door in commercial or institutional buildings where the best auxiliary Mortise deadbolt locks are required

- **Backset:** 2 3/4" (70 mm)
- **Door Range:** 1 3/4" (44.5 mm), available to 2 1/4" (57 mm)
- **Deadbolt:** 1" (25 mm) throw, stainless steel, can withstand cutting or sawing
- **Cylinder:** 1 1/4" Mortise cylinder Schlage "C" (standard)
- **Heavy Gauge Steel Lock Case**
- **Brass Deadbolt with Hardened Steel, 1" Throw**
- **Satin Chrome Finish**
- **ANSI A156.13**
- **Exceeds 1,000,000 cycles**

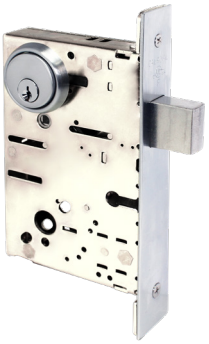


Mortise Cylinder

- Cylinder length is 1 1/8" (under shoulder including cam)
- With Schlage cam (L583-2540)



HEAVY DUTY ANSI A156.13 GRADE 1 FULL MORTISE



SC SERIES

Lock Case:
4" x 6 1/32" x 1 7/32"
(102 mm x 153 mm x 31.3 mm)

Faceplate:
1 7/32" x 8" x 1/8"
(31.3 mm x 203 mm x 3.175 mm)

Strike:
1 7/8" x 4 27/32" (48 mm x 123 mm)

LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

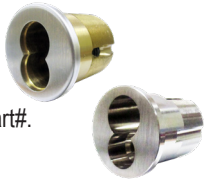
MODEL #	FUNCTIONS	MODEL #
SM140	**Cylinder and Thumbturn** Deadbolt thrown or retracted by key outside or thumbturn inside	**SC8460** ANSI F17
SM143	**Double Cylinder** Deadbolt operated by key on either side	**SC8462** ANSI F16
SM141	**Classroom Lock** Deadbolt thrown or retracted by key from outside. Inside thumbturn cylinder retracts deadbolt but cannot project it. **Specify handing.**	**SC8463** ANSI F29
SM142	**Cylinder Lock** Deadbolt thrown or retracted by key from outside only. No trim on opposite side.	**SC8464** ANSI F18
SM145	**Door Bolt** Deadbolt thrown or retracted by thumbturn from one side. No trim on opposite side	**SC8461**
SM146	**Deadbolt With "Occupied" Indicator** Deadbolt thrown or retracted by key outside or thumbturn inside. When deadbolt is thrown "OCCUPIED" plate is displayed	**SC8496** OCCUPIED

PACKAGING INCLUDES

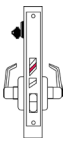
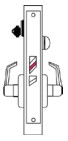
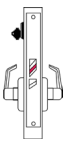
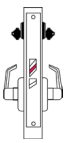
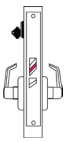
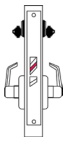
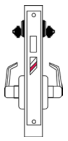
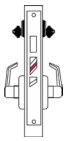
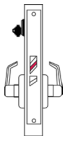
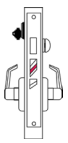
- UL listed single point latch
- Standard "C", 6 pin cylinder
- Non-handed strike

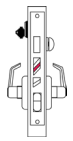
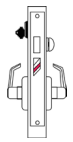
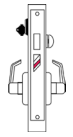
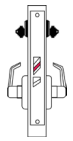
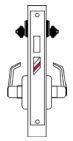
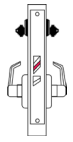
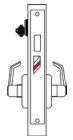
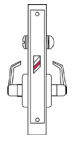
OPTIONAL INTERCHANGEABLE CORE

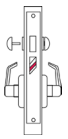
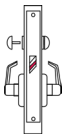
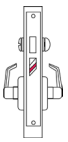
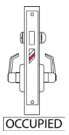
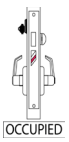
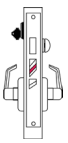
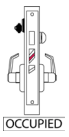
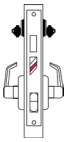
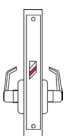
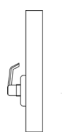
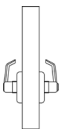
- For **Best, Falcon and Arrow** Interchangeable Core prefix "**IC**" before Part#. (Mortise housing Part# ICH961387)
- For **Schlage** Large Format Interchangeable Core prefix "**ICSC**" before Part#.
  For **Corbin / Russwin** Large Format Interchangeable Core prefix "**ICCR**" before Part#.
  For **Sargent** Large Format Interchangeable Core prefix "**ICSA**" before Part#.
  For **Yale** Large Format Interchangeable Core prefix "**ICYA**" before Part#.
  (Mortise housing Part# 7000ICMC)

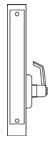
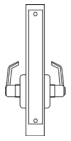
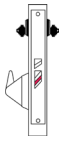
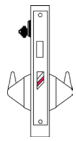
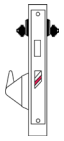
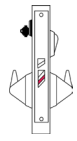
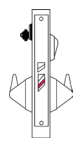


ADDITIONAL KEYWAYS
6 pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal HSK High Security Cylinders.

OUTSIDE INSIDE	SERIES/FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
	SC8050 SC8050HL SC8050LG	Office / Entrance	F04	Latch bolt retracted by key outside and inside lever when outside lever is locked. Outside lever retracts latch bolt unless outside lever is locked by operating toggle button. Outside lever is locked and unlocked by toggle button. Key outside locks outside lever only. When latch bolt is retracted by inside lever, outside lever remains locked. Auxiliary latch deadlocks latch bolt when door is closed. Inside lever is always free for immediate exit.
	SC8056	Office with Automatic Unlocking	---	Latch bolt retracted by knob / lever from either side unless outside is made inoperative by key outside or by rotating inside thumbturn. Outside knob / lever unlocked by key outside or thumbturn. Rotating inside knob / lever simultaneously retracts latch bolt and unlocks outside knob / lever. Auxiliary latch deadlocks bolt when door is locked. Inside knob / lever is always free of immediate egress.
	SC8070 SC8070HL SC8070LG	Classroom	F05	Outside key locks and unlocks outside lever. Outside lever retracts latch bolt unless outside lever is locked by key. When outside lever is locked, unlocked from outside by key or by inside lever. Inside lever is always free for immediate exit. Auxiliary latch deadlocks latch bolt when door is closed.
	SC8071 SC8071LG	Classroom Security Lock	F32	Latch bolt retracted by knob / lever from either side unless outside is locked by key from either side. When outside lever is locked, latch bolt is retracted by key outside or lever inside. Turning key from either side locks and unlocks outside lever. Auxiliary latch deadlocks latch bolt when door is locked. Inside knob / lever is always free for immediate egress.
	SC8076	Classroom Hold-Back Lock	F06	Latch bolt retracted by knob / lever from either side unless outside is locked by key. When locked, latch bolt retracted by key outside or knob / lever inside. Auxiliary latch deadlocks latch bolt when door is locked. Depress inside knob / lever and turn key 360° for hold-back feature.
	SC8077	Classroom Security Hold-Back Lock	---	Latch bolt retracted by knob / lever from either side unless outside is locked by key from either side. When locked, latch bolt retracted by key outside or knob / lever inside. Auxiliary latch deadlocks latch bolt when door is locked. Depress inside knob / lever and turn key 360° for hold-back feature. Inside knob / lever is always free for immediate egress.
	SC8457 SC8457LG	Classroom Security Lock w/ Deadbolt	F33	Latch bolt retracted by outside lever from either side unless outside lever is locked by key from inside or outside. Deadbolt projected or retracted by key outside. Operating inside lever retracts both deadbolt and latch bolt simultaneously and unlock outside lever. Inside knob / lever is always free for immediate egress.
	SC8458 SC8458LG	Classroom Security Lock w/ Deadbolt and Auxiliary Latch	F34	Latch bolt retracted by lever from either side unless outside lever is locked from inside or outside by key. Deadbolt projected or retracted by key outside. Operating inside lever retracts both bolts and unlocks outside lever. Auxiliary latch deadlocks latch bolt when door is closed or latch bolt deadlocks when deadbolt is projected. Inside lever is always free for immediate egress.
	SC8463	Classroom Lock	F29	Deadbolt thrown or retracted by key from outside. Inside thumbturn cylinder retracts deadbolt but cannot project it.
	SC8080 SC8080LG	Storeroom	F07	Latch bolt operated by key from outside or rotating inside lever, outside lever is always inoperative. Auxiliary latch deadlocks latch bolt when door is closed. Inside lever is always free for immediate egress.
	SC8480	Storeroom Lock with Deadbolt	---	Latch bolt retracted by key outside or by lever or knob inside. Outside knob / lever is always fixed. Deadbolt thrown or retracted by key outside or thumbturn inside. Turning inside knob / lever simultaneously retracts both deadbolt and latch bolt. Auxiliary latch deadlocks latch bolt when door is closed. Inside knob / lever is always free for immediate egress.

OUTSIDE INSIDE	SERIES/FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
	SC8453 SC8453HL SC8453LG	Entrance	F20	Latch bolt retracted by lever from either side unless outside lever is locked by operating toggle button. Deadbolt projected by key from outside or by thumbturn from inside. Both deadbolt and latch bolt are retracted by inside lever simultaneously. Latch bolt is deadlocked when outside lever is locked or when deadbolt is projected. Outside lever is unlocked by toggle button if deadbolt is retracted. Inside lever is always free for immediate egress.
	SC8456 SC8456HL SC8456LG	Corridor	F13	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by key outside or inside thumbturn. Throwing deadbolt locks outside knob / lever. Turning inside knob / lever simultaneously retracts deadbolt and latch bolt and unlocks outside knob / lever. Inside knob / lever is always free for immediate egress.
	SC8473 SC8473HL SC8473LG	Dormitory / Bedroom	F21	Latch bolt retracted by knob or lever from either side. Deadbolt extended or retracted by key outside or thumbturn inside. Latch bolt and deadbolt are independent of each other.
	SC8460	Cylinder x Thumbturn Lock	F17	Deadbolt thrown or retracted by key outside or thumbturn inside.
	SC8060 SC8060HL SC8060LG	Apartment Entrance / Vestibule	F09	Latch bolt operated by lever from either side except when outside lever is locked by inside key. Outside key or inside lever will retract latch when locked. Key inside locks and unlocks outside lever. Auxiliary latch deadlocks latch bolt when door is closed. Inside lever is always free for immediate egress.
	SC8466 SC8466HL SC8466LG	Store Door Lock (Asylum-4)	F14	Latch bolt operated by lever from either side. Deadbolt projected or retracted by key on either side. Latch bolt and deadbolt are independent of each other.
	SC8462	Double Cylinder Lock	F16	Deadbolt operated by key from either side.
	SC8464	Cylinder Lock	F18	Deadbolt thrown or retracted by key from outside only. No trim on opposite side.
	SC8082 SC8082HL SC8082LG	Asylum / Institution Lock	F30	Latch bolt retracted by key from either side. Knob / lever on both sides always inoperative. Auxiliary latch deadlocks latch bolt when door is closed.
	SC8465	Closet / Storeroom with Deadbolt	F65	Latch bolt retracted by knob or lever from either side. Deadbolt extended or retracted by key outside.
	SC8044	Privacy w/ Coin Turn Outside	F22	Latch bolt retracted by knob / lever from either side unless outside is locked by inside thumbturn or outside coin turn. Operating inside knob / lever, closing door, rotating inside thumbturn or rotating outside coin turn unlocks outside knob / lever. Inside knob / lever is always free for immediate exit.

OUTSIDE INSIDE	SERIES/FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
	SC8440 SC8440HL SC8440LG	Privacy with Deadbolt	F19	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by inside thumbturn. Throwing deadbolt locks outside knob / lever. Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt, and unlocks outside knob / lever. To unlock from outside, remove emergency button, insert emergency thumbturn in access hole and rotate. Inside knob / lever is always free for immediate egress.
	SC8040 SC8049HL SC8049LG	Privacy Bedroom / Bath	F22	Latch bolt retracted by knob / lever from either side unless outside is locked by inside thumbturn. Operating inside knob / lever, closing door, or operating outside emergency release unlocks outside knob / lever. Inside knob / lever is always free for immediate exit.
	SC8444	Privacy w/ Deadbolt and Coin Turn Outside	F19A	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by inside thumbturn or outside coin turn. Throwing deadbolt locks outside knob / lever. Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt, and unlocks outside knob / lever. Rotating outside coin turn retracts deadbolt and unlocks outside knob / lever. Inside knob / lever is always free for immediate egress.
	SC8445	Privacy w/ Deadbolt, Coin Turn Outside and "OCCUPIED" Indicator	F19B	Latch bolt retracted by knob / lever from either side. Deadbolt thrown or retracted by inside thumbturn or outside coin turn. Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate. Rotating inside knob / lever simultaneously retracts deadbolt and latch bolt, and unlocks outside knob / lever. Rotating outside coin turn retracts deadbolt and unlocks outside knob / lever. Inside knob lever is always free for immediate egress.
	SC8495	Privacy with "OCCUPIED" Indicator	---	Knob / lever retracts latch bolt form either side. Deadbolt thrown or retracted by key outside (retraction by key required in the event of an emergency) or inside thumbturn. Throwing deadbolt locks outside knob / lever and displays "OCCUPIED" plate. Rotating inside knob / lever simultaneously retracts both deadbolt and latch bolt and unlocks outside knob / lever. Inside lever is always free for immediate egress.
	SC8485	Faculty Restroom Lock	---	Latch bolt retracted by key outside or by knob / lever inside. Outside knob / lever is always fixed. Deadbolt thrown or retracted by inside thumbturn. When dead bolt is thrown, all keys become inoperable except emergency or display keys. Turning inside knob / lever retracts both deadbolt and latch bolt simultaneously. Auxiliary latch deadlocks latch bolt when door is closed. Inside knob / lever is always free for immediate egress.
	SC8486	SC8485 with "OCCUPIED" Indicator	---	Latch bolt retracted by key outside or by knob / lever inside. Outside knob / lever always fixed. Deadbolt thrown or retracted by inside thumbturn. When deadbolt is thrown, "OCCUPIED" plate is displayed and all keys become inoperative except emergency keys. Turning inside knob / lever simultaneously retracts both deadbolt and latch bolt. Auxiliary latch deadlocks latch bolt when door is locked. Inside knob / lever is always free for immediate egress.
	SC8411HL SC8411LG	Dormitory / Exit Lock	F11	Latch bolt retracted by lever from either side unless outside lever is made inoperative by operating toggle button. Dead bolt projected by key from either side. Dead bolt retracted by key outside. Operating inside lever retracts both dead bolt and latch bolt simultaneously and outside lever remains locked.
	SC8010 SC8010HL SC8010LG	Passage	F01	Latch bolt operated by lever from either side at all times. Inside lever is always free for immediate exit.
	SC8170	Single Fixed Dummy	---	Lever on one side fixed by mounting bar is always rigid. Lever is used as door pull only.
	SC8172	Double Fixed Dummy	---	Lever on both sides fixed by mounting bar is always rigid. Lever is used as door pull only.

OUTSIDE INSIDE	SERIES/FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
	SC8175	Single Dummy Trim with Lock Case	---	Lever on one side fixed on door surface is always rigid. Includes lock case and armored front.
	SC8176	Double Dummy Trim with Lock Case	---	Lever on both sides fixed on door surface and are always rigid. Includes lock case and blank armor front.
	SC8026LG	Supervisor Office or Privacy Room (Institutional Privacy)	F26	Outside key retracts latch bolt, with override of inside thumbturn when held in locked position. Outside lever retracts latch bolt except when locked by thumbturn. Free exit at all times. Inside lever can be rotated at any time.
	SC8031LG (Asylum-1)	Asylum w/o Inside Cylinder	---	Only outside key retracts latch bolt. Inside and Outside Lever are clutch, free-wheeling.
	SC8032LG (Asylum-2)	Asylum w/ Double Cylinder w/o Inside Lever	---	Outside or inside key retracts latch bolt. Outside Lever is clutch, free-wheeling.
	SC8033LG (Asylum-3)	Asylum w/o Inside Cylinder w/o Inside Lever	---	Only outside key retracts latch bolt. Outside lever is clutch, freewheeling.
	SC8467LG (Asylum-5)	Asylum w/ Deadbolt w/o Inside Cylinder	---	Outside lever retracts both latch bolt and deadbolt simultaneously. Outside key operates deadbolt. Outside lever is operable. Inside lever is clutch, freewheeling.
	SC8468LG (Asylum-6)	Asylum w/ Deadbolt & Double Cylinder w/o Inside Lever	---	Outside or inside key operates deadbolt. Outside Lever is operable unless deadbolted.
	SC8469LG (Asylum-7)	Asylum w/ Deadbolt w/o Inside Cylinder & Inside Lever	---	Outside lever retracts latch bolt. Outside key operates deadbolt. Outside lever can open door except when deadbolted.
	SC8055LG	Female Patient Room-1	---	Outside lever can be turned for entry when unlocked by key. Free exit at all times. Remains locked if exiting. Outside lever is lockable. Inside lever can be rotated at any time.
	SC8056LG	Female Patient Room-2	---	Outside lever can be turned for entry when unlocked by key. Free exit at all times. Remains unlocked if exiting. Inside lever can be rotated at any time.

HOSPP SERIES

Grade 1 Heavy Duty Hospital Latch

3 HOUR FIRE RATED
UL10C, UBC7-2-1997

MEETS
The Buy American Act

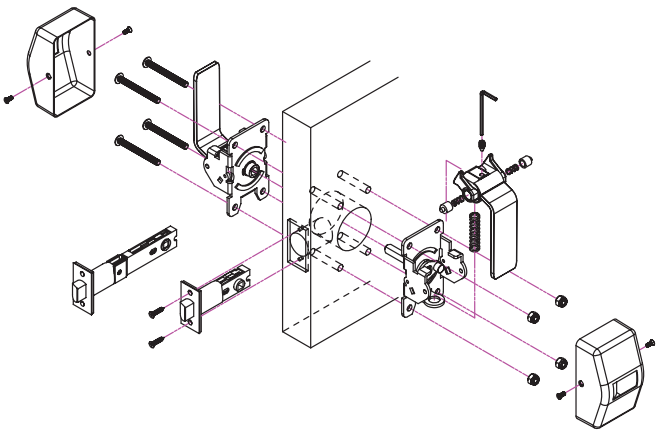
FEATURES

- UL-listed for use on all fire doors
- Meets ADA requirements
- Ideal for use in hospitals, washrooms or public buildings
- Can be installed in 6 different mounting positions
- Covers and paddles are made of stainless steel
- Non-Handed
- Standard T-Strike and Plastic Dust Box
- 1 ¾" door thickness
- 2 ¾" backset standard, face plate 1 ⅛" x 2 ¼"
- Optional 5" backset
- 2 ⅝" x 4 ⅜" Covers
- 2 ⅝" Handle Projection,
- **Anti-microbial coating option** available. Use "**HOS-ANTB**" when ordering.
- Lead lining option available for doors with lead lining
- Optional ASA ANSI Strike



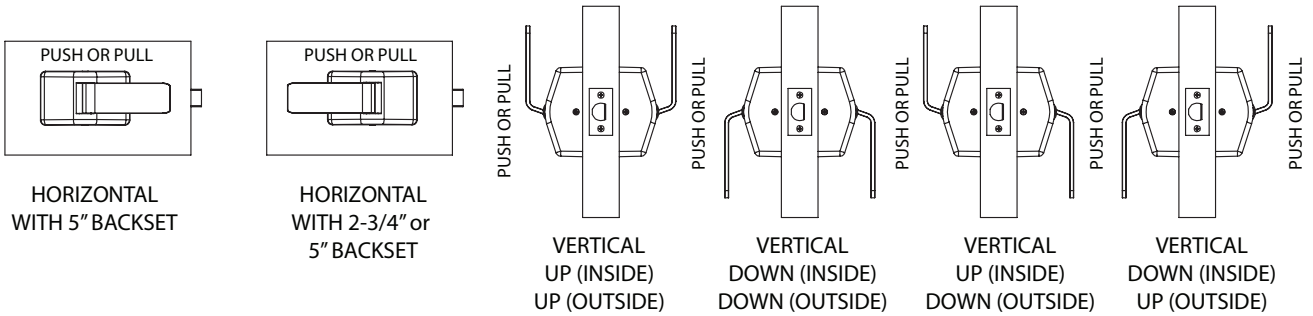
HOSPP-30

MODEL#	FUNCTION	FINISH
HOS-PP30	PASSAGE	US32D



The hospital push / pull latch allows for easy opening of doors with an easy push or pull action using elbows or hips when hands are not free.

Ideal for use in commercial applications, institutions, hospitals, washrooms or public buildings.



HORIZONTAL WITH 5" BACKSET

HORIZONTAL WITH 2-3/4" or 5" BACKSET

VERTICAL UP (INSIDE) UP (OUTSIDE)

VERTICAL DOWN (INSIDE) DOWN (OUTSIDE)

VERTICAL UP (INSIDE) DOWN (OUTSIDE)

VERTICAL DOWN (INSIDE) UP (OUTSIDE)

INSTALLATION OPTIONS

GENESYS

CLUTCH MECHANISM
FIXED THRU BOLT INSTALLATION
Interchangeable Core for BEST, FALCON & ARROW

c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997

MEETS *The Buy American Act*

HURRICANE APPROVED HARDWARE FLORIDA BUILDING CODE FL13922-R7 ASTM E1886/E1996 ASTM E330 TAS 201, 202, 203 UL10B & UL10C

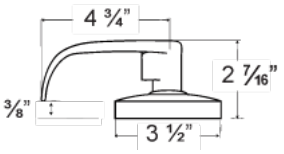
LIFETIME WARRANTY

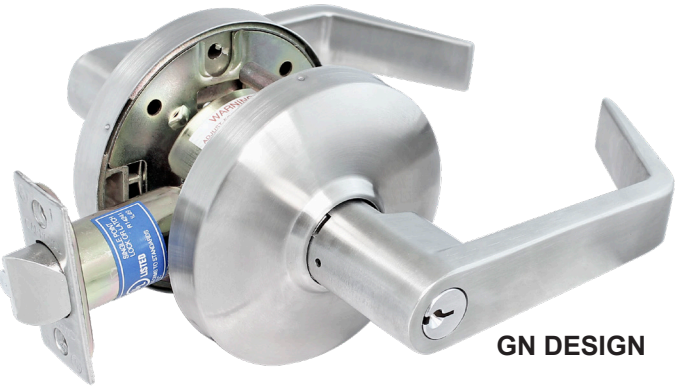
BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.

HURRICANE APPROVED HARDWARE TEXAS EVALUATION ID DR-472 ASTM E1886/E1996 ASTM E330 TAS 201, 202, 203



SPA DESIGN

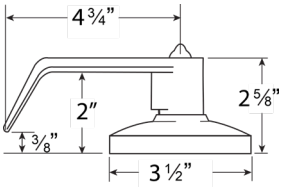




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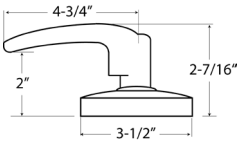
CLUTCH
Free turning handle in the locked position, without retracting the latch to help prevent breaking of handle

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI / BHMA A156.2, Series 4000, Grade 1 Requirements
Exceeds 1,000,000 Cycles



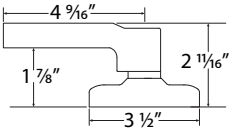


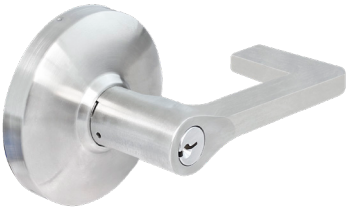
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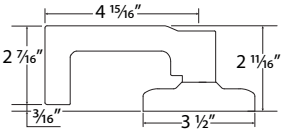


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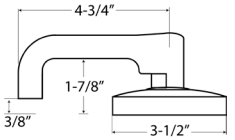


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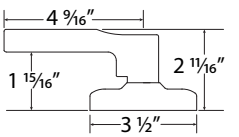


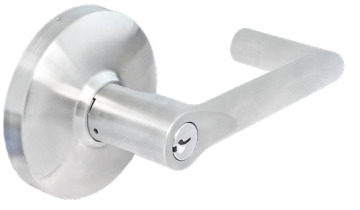
TUB DESIGN



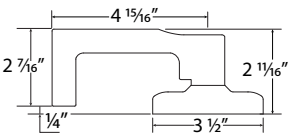


DAN DESIGN





AUG DESIGN

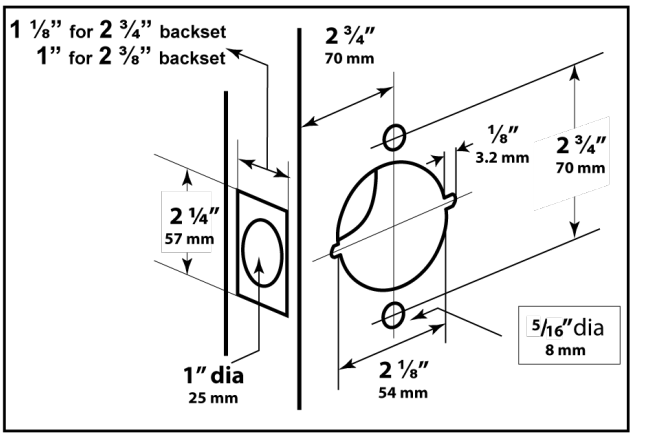


GENESYS SERIES FINISHES AND SPECIFICATIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
613E	US10BE	Dark Satin Bronze, Equivalent
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome
630	US32D	Satin Stainless Steel

Refer to price list for stock finishes and functions

DOOR PREPARATION



3 HOUR FIRE RATED UL10C, UBC7-2-1997 | LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | HURRICANE APPROVED HARDWARE FLORIDA BUILDING CODE FL13922-R7 ASTM E1886/E1996 ASTM E330 TAS 201, 202, 203 UL10B & UL10C | HURRICANE APPROVED HARDWARE TEXAS EVALUATION ID DR-472 ASTM E1886/E1996 ASTM E330 TAS 201, 202, 203

SPECIFICATIONS

GENERAL:
Full length 4 ¾" lever handle with ⅜" return on GN and SPA Design. Rose diameter 3 ½". Key removable outside lever for fast re-keying. Non-handed levers. Concealed mounting screws.

CLUTCH:
Free turning handle in the lock position without retracting the latch, to deter breaking of handle.

APPLICATIONS:
For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

DOOR RANGES:
1 ⅜" to 1 ¾" thickness. 2" to 2 ¼" thickness also available on request.

ANSI STANDARDS:
Meets or exceeds ANSI / BHMA A156.2 Series 4000, Grade 1 requirements.

CYLINDER & KEYWAYS:
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, OCorbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

LATCH FACEPLATE:
Standard 2 ¼" x 1 ⅛" for 2 ¾" backset.
Optional 2 ¼" x 1" for 2 ⅜" backset.

STRIKES:
ASA 1 ¼" x 4 ⅞" standard. Other strikes available upo

TRIM:
Thru-bolted assembly through door with separate spring cage for each lever.

HOUSING:
Cold Rolled Steel and Zinc Dichromate finish for rust resistance with precision cast steel retractor. 2 ⅛" diameter bore.

SMALL FORMAT INTERCHANGEABLE CORE (IC):
Interchangeable Core locks will accept compatible 6 or 7 pin cores with **BEST, FALCON and ARROW**. Prefix "IC" before part number.

LARGE FORMAT INTERCHANGEABLE CORE (IC):
Also available with **SCHLAGE, CORBIN / RUSSWIN, SARGENT and YALE** large format cylinders. For Schlage, Corbin / Russwin, Sargent and Yale format specifications, ***refer to page 29***.

LATCH OPTIONS:
2 ¾" standard, brass with ½" throw. 2 ⅜", 3 ¾" and 5" backset optional. GND750 deadlatch reversible for flat and beveled door. ¾" throw anti-friction deadlatch for pair of fire doors.

ELECTRIFIED LOCKS, TACTILE & LEAD LINING:
available upon request.

SEE PAGE 28 ON HOW TO ORDER AND FOR LIST OF AVAILABLE FUNCTIONS

GENESYS US32D

CLUTCH MECHANISM
FIXED THRU BOLT INSTALLATION
Interchangeable Core for BEST, FALCON & ARROW

LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

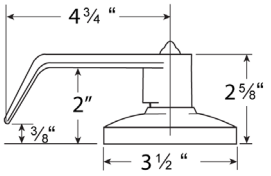
MEETS
The Buy American Act

HURRICANE APPROVED HARDWARE
FLORIDA BUILDING CODE
FL13922-R7
ASTM E1886/E1996
ASTM E330
TAS 201, 202, 203
UL10B & UL10C

HURRICANE APPROVED HARDWARE
TEXAS EVALUATION ID
DR-472
ASTM E1886/E1996
ASTM E330
TAS 201, 202, 203

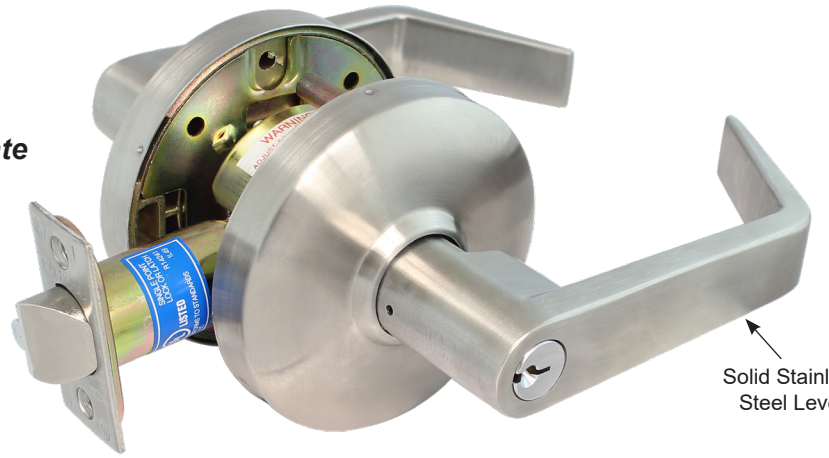
ALL STAINLESS STEEL EXTERIOR

Includes:
Grade 304 SS Lever,
Grade 304 SS Rose,
Corrosion Resistant Material
ASA Strike and Latch Faceplate



GN DESIGN

REFER TO PAGE 28 FOR AVAILABLE FUNCTIONS



CLUTCH
Free turning handle in the locked position, without retracting the latch to help prevent breaking of handle.

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI / BHMA A156.2, Series 4000, Grade 1 Requirements
Exceeds 1,000,000 Cycles

SPECIFICATIONS

GENERAL
Full length 4 ¾" lever handle with ⅜" return
Rose diameter 3 ½". Key removable outside lever for fast re-keying. Non-handed levers. Concealed mounting screws.

CLUTCH
Free turning handle in the lock position without retracting the latch, to deter breaking of handle.

APPLICATIONS
For offices, schools, hospitals, corrosive environments, commercial and public buildings.

DOOR RANGES
1 ⅜" to 1 ¾" thickness. 2" to 2 ¼" thickness also available on request.

ANSI STANDARDS
Meets or exceeds ANSI / BHMA A156.2 Series 4000, Grade 1 requirements.

LATCH FACEPLATE
Standard 2 ¼" x 1 ⅛" for 2 ¾" backset. Optional 2 ¼" x 1" for 2 ⅜" backset.

STRIKES
ASA 1 ¼" x 4 ⅞" standard. Other strikes available upon request.

CYLINDER & KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

TRIM
Thru-bolted assembly through door with separate spring cage for each lever.

HOUSING
Cold Rolled Steel and Zinc Dichromate finish for rust resistance with precision cast steel retractor. 2 ⅛" diameter bore.

INTERCHANGEABLE CORE (IC)
Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. ***Refer to page 29 for SCHLAGE, CORBIN / RUSSWIN, SARGENT and YALE large format specifications.***

LATCH OPTIONS
2 ¾" standard, brass with ½" throw. 2 ⅜", 3 ¾" and 5" backset optional. GND750 deadlatch reversible for flat and beveled door. ¾" throw anti-friction deadlatch for pair of fire doors.

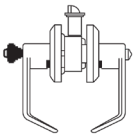
ELECTRIFIED LOCKS, TACTILE & LEAD LINING available upon request.

GENESYS SERIES FUNCTIONS

HOW TO ORDER:

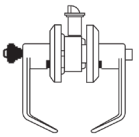
For "AT", "SPA", "TUB", "AUG", "DAN", "LON", or "TAC" designs, replace design name.
Example: CGN00 entrance in "AT" is CAT00.

CGN00
ICCGN00
ANSI: F109
FED#161A



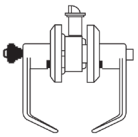
ENTRANCE / OFFICE LOCK
Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

CGN01
ICCGN01
ANSI: F82
FED#161B



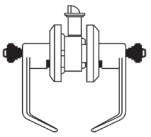
ENTRANCE LOCK PUSH BUTTON
Pushing button in inside lever locks outside lever. Turning inside lever or operating key in outside lever releases button automatically. Closing door does not release button. Button cannot be fixed in lock position. Inside lever always free. Latch bolt automatically deadlocks when door is closed.

GN101
ANSI: F90
FED#161T



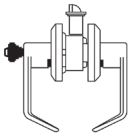
DORMITORY NON-CLUTCH
Deadlocking latch bolt operated by lever from either side except when outside lever is locked by key or by push button on inside lever. Key in outside lever locks or unlocks outside lever. Outside key releases push button when locked from inside. Rotating inside lever or closing the door releases push button. (Non Clutch)

GN02
ICGN02
ANSI: F91
FED#161G



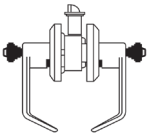
STORE LOCK NON-CLUTCH
Deadlocking latch bolt operated by lever from either side, except when both levers are locked by key in lever from either side. (Non Clutch)

CGN03
ICCGN03
ANSI: F84
FED#161R



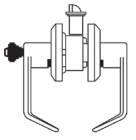
CLASSROOM LOCK
Deadlocking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

CGN04
ICCGN04
ANSI: F80
FED#161S



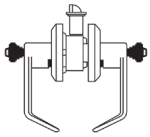
COMMUNICATING LOCK
Deadlocking latch bolt operated by lever from either side. Turning key in either lever locks or unlocks its own lever independently.

CGN05
ICCGN05
ANSI: F86
FED#161D



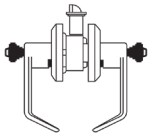
STOREROOM LOCK
Deadlocking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always locked.

CGN06
ICCGN06
ANSI: F88
FED#161C



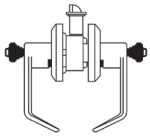
VESTIBULE
Deadlocking latch bolt operated by lever from either side except when outside lever is locked by key from inside. Latch bolt may be retracted by key in outside lever or by rotating inside lever.

CGN07
ICCGN07
ANSI: F110



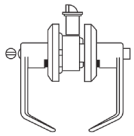
CLASSROOM / INTRUDER
Latch bolt is operated by rotating the inside lever, or rotating the outside lever only when not locked from the inside or outside key.

CGN09
ICCGN09
ANSI: F87
FED#161W



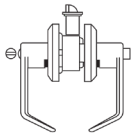
INSTITUTION
Deadlocking latch bolt operated by key in lever from either side. Both lever always fixed.

CGN20
ANSI: F76
FED#161L



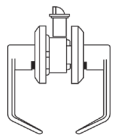
PRIVACY LOCK
Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

HCGN20



HOSPITAL PRIVACY LOCK
Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by turning turn button. Turning inside lever or closing door releases push button.

GN30
ANSI: F75
FED#161N



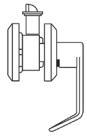
PASSAGE SET
Latch bolt operated by lever from either side at all times.

GN40



DUMMY LEVER
Single dummy trim for one side of door. Pull only.

GN50
ANSI: F89



EXIT LOCK
Blank plate outside. Inside lever always unlocked.

Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST

GENESYS

CLUTCH MECHANISM
FIXED THRU BOLT INSTALLATION
Interchangeable Core for SCHLAGE, SARGENT, CORBIN / RUSSWIN, & YALE

c UL us — 3 HOUR FIRE RATED UL10C, UBC7-2-1997

MEETS *The Buy American Act*

HURRICANE APPROVED HARDWARE FLORIDA BUILDING CODE FL13922-R7 ASTM E1886/E1996 ASTM E330 TAS 201, 202, 203 UL10B & UL10C

LIFETIME WARRANTY

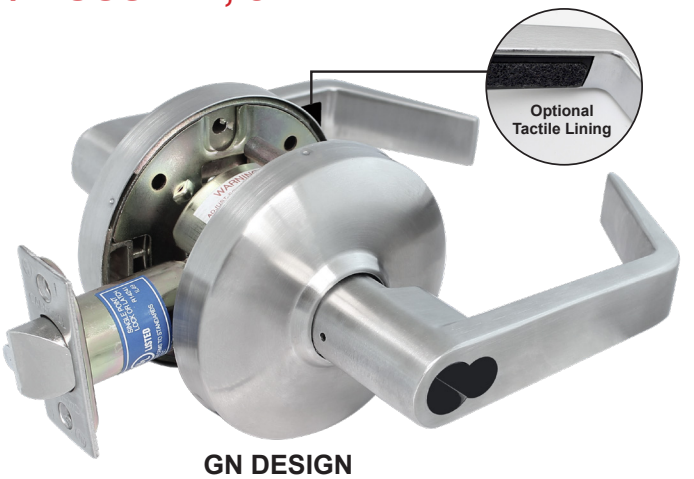
BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.

HURRICANE APPROVED HARDWARE TEXAS EVALUATION ID DR-472 ASTM E1886/E1996 ASTM E330 TAS 201, 202, 203

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI / BHMA A156.2, Series 4000, Grade 1 Requirements
Exceeds 1,000,000 Cycles

CLUTCH
Free turning handle in the locked position, without retracting the latch to help prevent breaking of handle

YALE LFIC ONLY AVAILABLE IN GN, AT, SPA LEVER DESIGNS



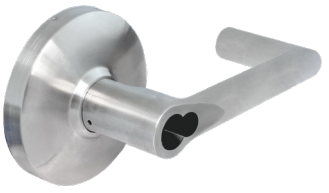
GN DESIGN



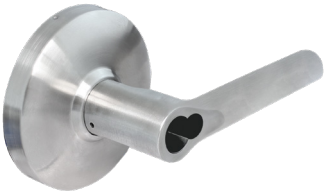
SPA DESIGN



AT DESIGN



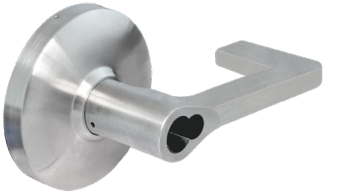
AUG DESIGN



DAN DESIGN



LON DESIGN



TAC DESIGN

SPECIFICATIONS

GENERAL
Full length 4 ¾" lever handle with ⅜" return on GN and SPA Design. Rose diameter 3 ½". Key removable outside lever for fast re-keying. Non-handed levers. Concealed mounting screws.

CLUTCH
Free turning handle in the lock position without retracting the latch, to deter breaking of handle.

APPLICATIONS
For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

DOOR RANGES
1 ⅜" to 1 ¾" thickness. 2" to 2 ¼" thickness also available on request.

HOUSING
Cold Rolled Steel and Zinc Dichromate finish for rust resistance with precision cast steel retractor. 2 ⅛" diameter bore.

ANSI STANDARDS
Meets or exceeds ANSI / BHMA A156.2 Series 4000, Grade 1 requirements.

TRIM
Thru-bolted assembly through door with separate spring cage for each lever.

LARGE FORMAT INTERCHANGEABLE CORE (IC)
Interchangeable Core locks will accept compatible 6 or 7 pin cores with **CORBIN / RUSSWIN**, 6 pin cores with **SARGENT,** and **SCHLAGE** large format cylinders in all seven lever designs (**GN, AT, SPA, AUG, DAN, LON, and TAC**); 6 pin cores **YALE** large format cylinders in **GN, AT, and SPA** lever designs only.

LATCH OPTIONS
2 ¾" standard, brass with ½" throw. 2 ⅜", 3 ¾" and 5" backset optional. GND750 deadlatch reversible for flat and beveled door. ¾" throw anti-friction deadlatch for pair of fire doors.

LATCH FACEPLATE
Standard 2 ¼" x 1 ⅛" for 2 ¾" backset.
Optional 2 ¼" x 1" for 2 ⅜" backset.

STRIKES
ASA 1 ¼" x 4 ⅞" standard. Other strikes available upon request.

ELECTRIFIED LOCKS, TACTILE & LEAD LINING available upon request.

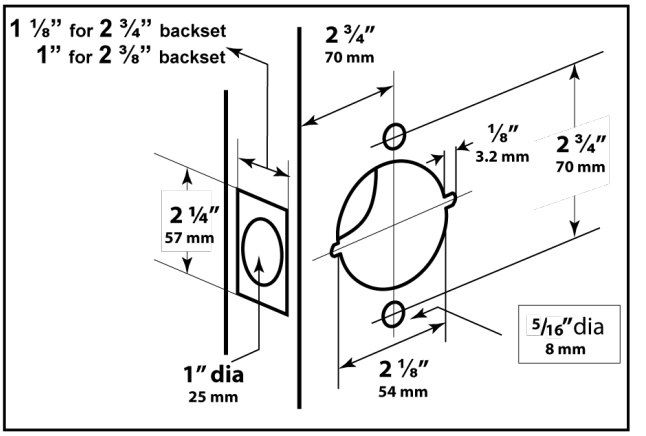
See reverse page on how to order

GENESYS SERIES FINISHES AND FUNCTIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
613E	US10BE	Dark Satin Bronze, Equivalent
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome
630	US32D	Satin Stainless Steel

Refer to price list for stock finishes and functions

DOOR PREPARATION



HOW TO ORDER SCHLAGE LFIC

Design:

CGN / CSPA / CAT / CAUG / CDAN / CLON / CTAC

- Replace "ICGYS" with "ICSC"
- Add: DESIGN + FUNCTION + FINISH when ordering.
- Example: ICGYS00 US26D in "SPA" design, Entrance function with US26D finish will be: "ICSCCSPA00 US26D"

HOW TO ORDER CORBIN / RUSSWIN, SARGENT, YALE LFIC

Keyway: RUSIC / SARIC / YALIC

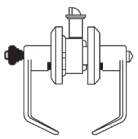
RUSIC - Corbin / Russwin Large Format IC
SARIC - Sargent Large Format IC
YALIC - Yale Large Format IC

Design:
CGN / CSPA / CAT / CAUG / CDAN / CLON / CTAC

***Note: Yale LFIC is only available in GN, AT, SPA lever designs*

- Specify: Replace "ICGYS" with specified KEYWAY,
- Add: DESIGN + FUNCTION + FINISH when ordering.
- Example: "ICGYS00 US26D with Corbin/Russwin Keyway, in "SPA" design, Entrance function with US26D finish will be: "RUSICCSPA00 US26D"

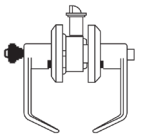
ICGYS00
RUSICCGN00
SARICCGN00
YALICCGN00
ANSI: F109
FED#161A



ENTRANCE / OFFICE LOCK

Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

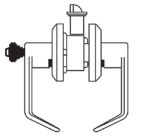
ICGYS101
RUSICCGN101
SARICCGN101
YALICCGN101
ANSI: F90
FED#161T



DORMITORY NON-CLUTCH

Deadlocking latch bolt operated by lever from either side except when outside lever is locked by key or by push button on inside lever. Key in outside lever locks or unlocks outside lever. Outside key releases push button when locked from inside. Rotating inside lever or closing the door releases push button. (Non Clutch)

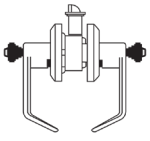
ICGYS03
RUSICCGN03
SARICCGN03
YALICCGN03
ANSI: F84
FED#161R



CLASSROOM LOCK

Deadlocking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

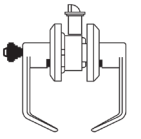
ICGYS04
RUSICCGN04
SARICCGN04
YALICCGN04
ANSI: F80
FED#161S



COMMUNICATING LOCK

Deadlocking latch bolt operated by lever from either side. Turning key in either lever locks or unlocks its own lever independently.

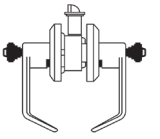
ICGYS05
RUSICCGN05
SARICCGN05
YALICCGN05
ANSI: F86
FED#161D



STOREROOM LOCK

Deadlocking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.

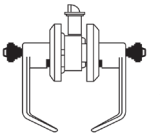
ICGYS06
RUSICCGN06
SARICCGN06
YALICCGN06
ANSI: F88
FED#161C



VESTIBULE

Deadlocking latch bolt operated by lever from either side except when outside lever is locked by key from inside. Latch bolt may be retracted by key in outside lever or by rotating inside lever.

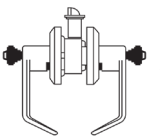
ICGYS07
RUSICCGN07
SARICCGN07
YALICCGN07
ANSI: F110



CLASSROOM / INTRUDER

Latch bolt is operated by rotating the inside lever, or rotating the outside lever only when not locked from the inside or outside key.

ICGYS09
RUSICCGN09
SARICCGN09
YALICCGN09
ANSI: F87
FED#161W



INSTITUTION

Deadlocking latch bolt operated by key in lever from either side. Both lever always fixed.

Indicates function available with SCHLAGE, CORBIN / RUSSWIN, SARGENT and YALE Interchangeable Core.

OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST. SEE PAGE 108 FOR SPECIFICATION ON CYLINDERS

CALYPSO

CLUTCH MECHANISM
FIXED THRU BOLT INSTALLATION

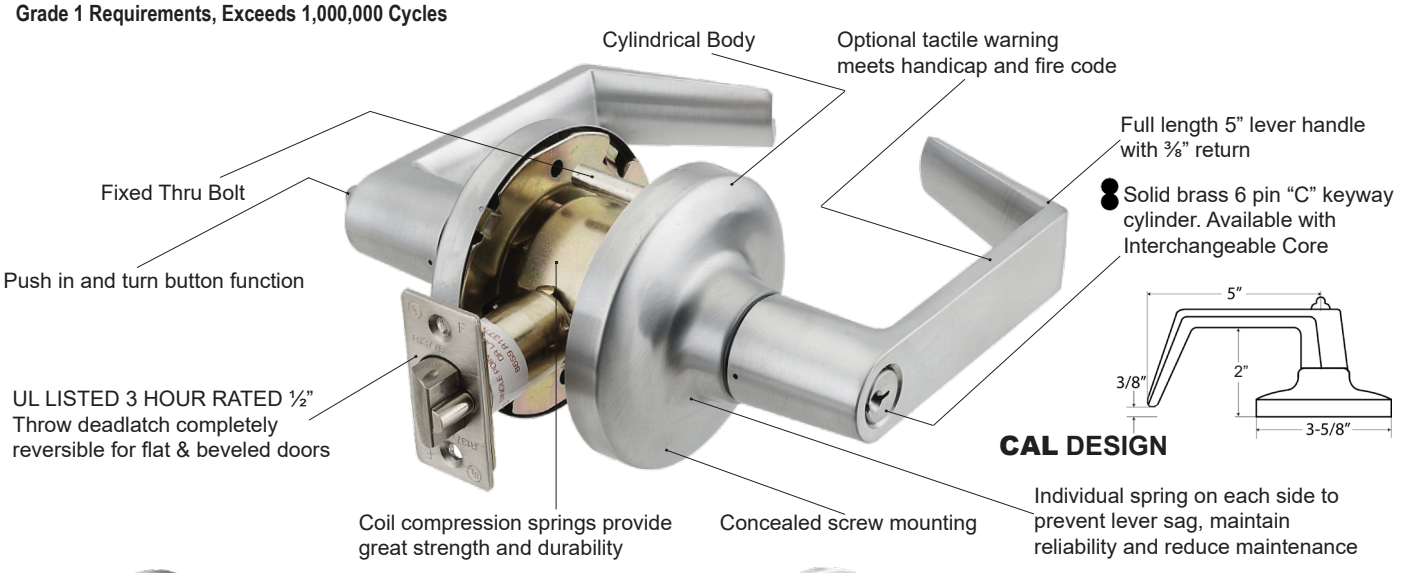
3 HOUR FIRE RATED UL10C, UBC7-2-1997

LIFETIME WARRANTY

BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.

MEETS *The Buy American Act*

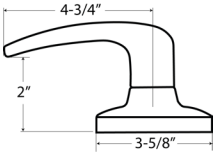
Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI / BHMA A156.2, Series 4000, Grade 1 Requirements, Exceeds 1,000,000 Cycles



CAL DESIGN

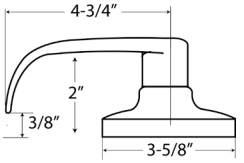


MHM DESIGN





SAN DESIGN



SPECIFICATIONS

APPLICATIONS
For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

DOOR RANGES
1 ⅜" to 2" thickness doors.

BACKSET
2 ¾" Standard, 2 ⅜", 3 ¾", 5" and 2 ¾" anti-friction latch with ¾" throw for pair of fire doors optional.

LATCH BOLT
½" Throw solid brass, reversible for RH or LH applications. UL Listed.

LATCH FACEPLATE
2 ¼" x 1 ⅛", adjustable for flat or beveled doors ⅛" in 2", for 2 ¾" backset.
Optional 2 ¼" x 1 ⅛" for 2 ⅜" backset.

STRIKES
ASA strike standard, "T" and full lip strike available on request.

EXPOSED TRIM
Wrought brass, bronze or stainless steel, levers are zinc casting, plated to match trim finish.

CYLINDER & KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

INTERCHANGEABLE CORE
Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number. Available combinated or uncombinated. Temporary construction cores available. Factory keying with control key and master key available.

ANSI STANDARDS
Meets or exceeds requirements of ANSI / BHMA A156.2 Series 4000, Grade 1

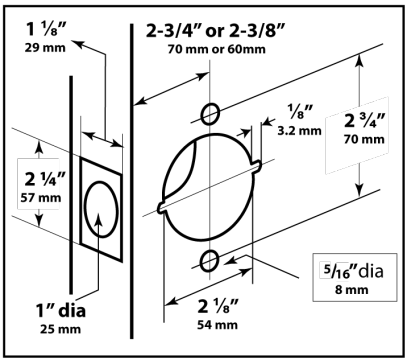
TACTILE & LEAD LINING available upon request.

CALYPSO CAL SERIES FINISHES AND FUNCTIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

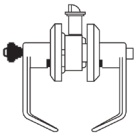
DOOR PREPARATION



LIFETIME WARRANTY

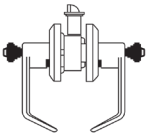
c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

CAL00
ICCAL00
ANSI: F109
FED#161A



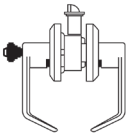
ENTRANCE / OFFICE LOCK
Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

CAL02
ICCAL02
ANSI: F91
FED#161G



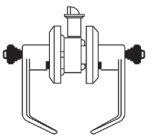
STORELOCK
Dead locking latch bolt operated by lever from either side, except when both levers are locked by key in lever from either side.

CAL03
ICCAL03
ANSI: F84
FED#161R



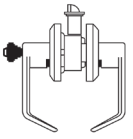
CLASSROOM
Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

CAL04
ICCAL04
ANSI: F80
FED#161S



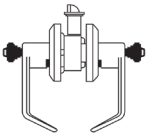
COMMUNICATING
Dead locking latch bolt operated by lever from either side. Turning key in either lever locks or unlocks its own lever independently.

CAL05
ICCAL05
ANSI: F86
FED#161D



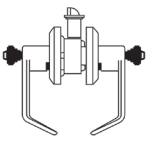
STOREROOM
Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.

CAL06
ICCAL06
ANSI: F88
FED#161C



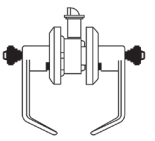
VESTIBULE
Dead locking latch bolt operated by lever from either side except when outside lever is locked by key from inside. Latch bolt may be retracted by key in outside lever or by rotating inside lever.

CAL07
ICCAL07
ANSI: F110



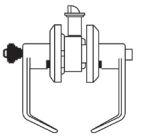
CLASSROOM INTRUDER
Latch bolt is operated by rotating the inside lever, or rotating the outside lever only when not locked from the inside or outside key. Outside lever is locked and unlocked by turning the key inside or outside lever. Inside lever cannot be locked.

CAL09
ICCAL09
ANSI: F87
FED#161W



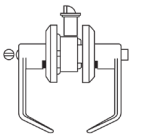
INSTITUTION
Dead locking latch bolt operated by key in lever from either side. Both lever always fixed.

CAL101
ICCAL101
ANSI: F90
FED#161T



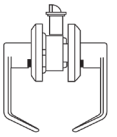
DORMITORY
Dead locking latch bolt operated by lever from either side except when outside lever is locked by key or by push button on inside lever. Key in outside lever locks or unlocks outside lever. Outside key releases push button when locked from inside. Rotating inside lever or closing the door releases push button.

CAL20
ANSI: F76
FED#161L



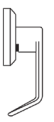
PRIVACY LOCK
Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

CAL30
ANSI: F75
FED#161N



PASSAGE SET
Latch bolt operated by lever from either side at all times.

CAL40



DUMMY LEVER
Single dummy trim for one side of door. Pull only.

"IC" Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

HOW TO ORDER: For "SPA" or "MHM" designs, replace design name.
Example: CAL00 Entrance in "SAN" is SAN00.

OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST

LRC SERIES

Grade 1 Heavy Duty Cylindrical Lockset with Ligature Resistant Lever

3 HOUR FIRE RATED UL10C, UBC7-2-1997

BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI / BHMA A156.2, Series 4000, Grade 1 Requirements, Exceeds 1,000,000 Cycles

MEETS *The Buy American Act*

LIFETIME WARRANTY

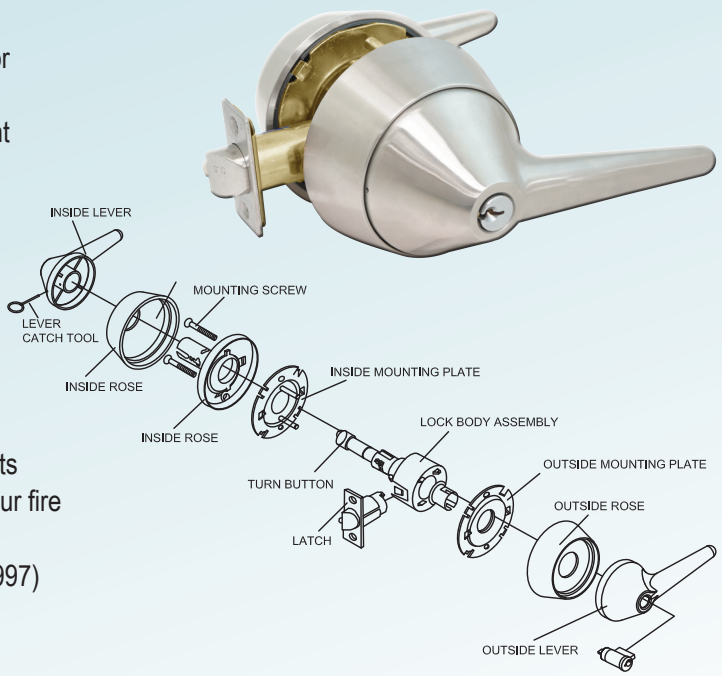


SPECIFICATIONS

- For 1 ⅜" to 2" thickness doors
- 2 ¾" Backset Standard, 2 ¼" x 1 ⅛" Latch Faceplate,
- 2 ⅜", 3 ¾", 5" and 2 ¾" Anti-Friction Latch Optional
- UL Listed, ½" Throw Solid Brass
- Reversible for RH or LH applications
- ASA Strike Standard
- Heavy Duty Stainless Steel Rose and Lever Trim
- Tamper Resistant Concealed Mounting Set Screws
- 6-Pin Solid Brass Schlage "C" Keyway Standard
- Small Format IC available combinated or uncombinated, 6 or 7 pin cores with BEST, FALCON, and ARROW. Prefix "IC" before part number.

FEATURES

- For Behavioral and Health Care facilities
- Lever clutch free-wheeling design helps to prevent intentional or accidental hanging.
- The lever rotates when in locked or unlocked position to prevent excessive force and decreases the chance of the lever being broken or damaged
- Anti-vandal cylinder guard is standard, deters forcible removal of cylinder with any type of wrench or hammer
- Different functions available to satisfy individual security and safety requirements



CERTIFICATIONS

- Meets ANSI / BHMA A156.2 Series 4000, Grade 1 Requirements
- UL and cUL listed to Canadian safety standard for A label (3-hour fire door); stamped letter "F" and UL symbol on armor faceplate
- Meets positive pressure requirements UL 10C and UBC 7-2 (1997)
- Meets requirements of the Buy American Act
- Meets requirements of the Americans with Disabilities Act

LRC SERIES FINISH AND FUNCTIONS

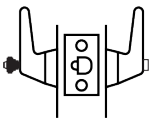
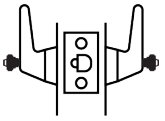
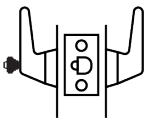
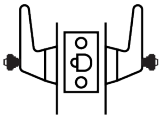
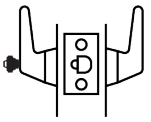
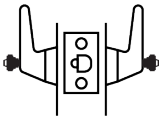
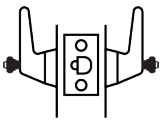
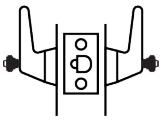
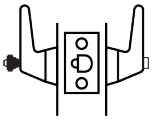
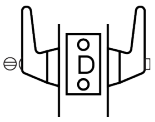
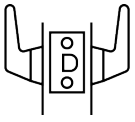
FINISH AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
630	US32D	Satin Stainless Steel

3 HOUR FIRE RATED UL10C, UBC7-2-1997

MEETS *The Buy American Act*

LIFETIME WARRANTY

BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.

OUTSIDE INSIDE	SERIES/FUNCTION	TYPE	ANSI	FUNCTION DESCRIPTION
	LRC00 ICLRC00	Entrance / Office Lock	F109	Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.
	LRC02 ICLRC02	Storelock	F91	Dead locking latch bolt operated by lever from either side, except when both levers are locked by key in lever from either side.
	LRC03 ICLRC03	Classroom	F84	Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.
	LRC04 ICLRC04	Communicating	F80	Dead locking latch bolt operated by lever from either side. Turning key in either lever locks or unlocks its own lever independently.
	LRC05 ICLRC05	Storeroom	F86	Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.
	LRC06 ICLRC06	Vestibule	F88	Dead locking latch bolt operated by lever from either side except when outside lever is locked by key from inside. Latch bolt may be retracted by key in outside lever or by rotating inside lever.
	LRC07 ICLRC07	Classroom Intruder	F110	Latch bolt is operated by rotating the inside lever, or rotating the outside lever only when not locked from the inside or outside key. Outside lever is locked and unlocked by turning the key inside or outside lever. Inside lever cannot be locked.
	LRC09 ICLRC09	Institution	F87	Dead locking latch bolt operated by key in lever from either side. Both lever always fixed.
	LRC101 ICLRC101	Dormitory	F90	Dead locking latch bolt operated by lever from either side except when outside lever is locked by key or by push button on inside lever. Key in outside lever locks or unlocks outside lever. Outside key releases push button when locked from inside. Rotating inside lever or closing the door releases push button.
	LRC20	Privacy	F76	Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.
	LRC30	Passage	F75	Latch bolt operated by lever from either side at all times.
	LRC40	Dummy	---	Single dummy trim for one side of door. Pull only.

"IC" Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

OMEGA

QUALITY DESIGNED AND ENGINEERED FOR COMMERCIAL BUILDINGS OPTIONAL THRU BOLT INSTALLATION

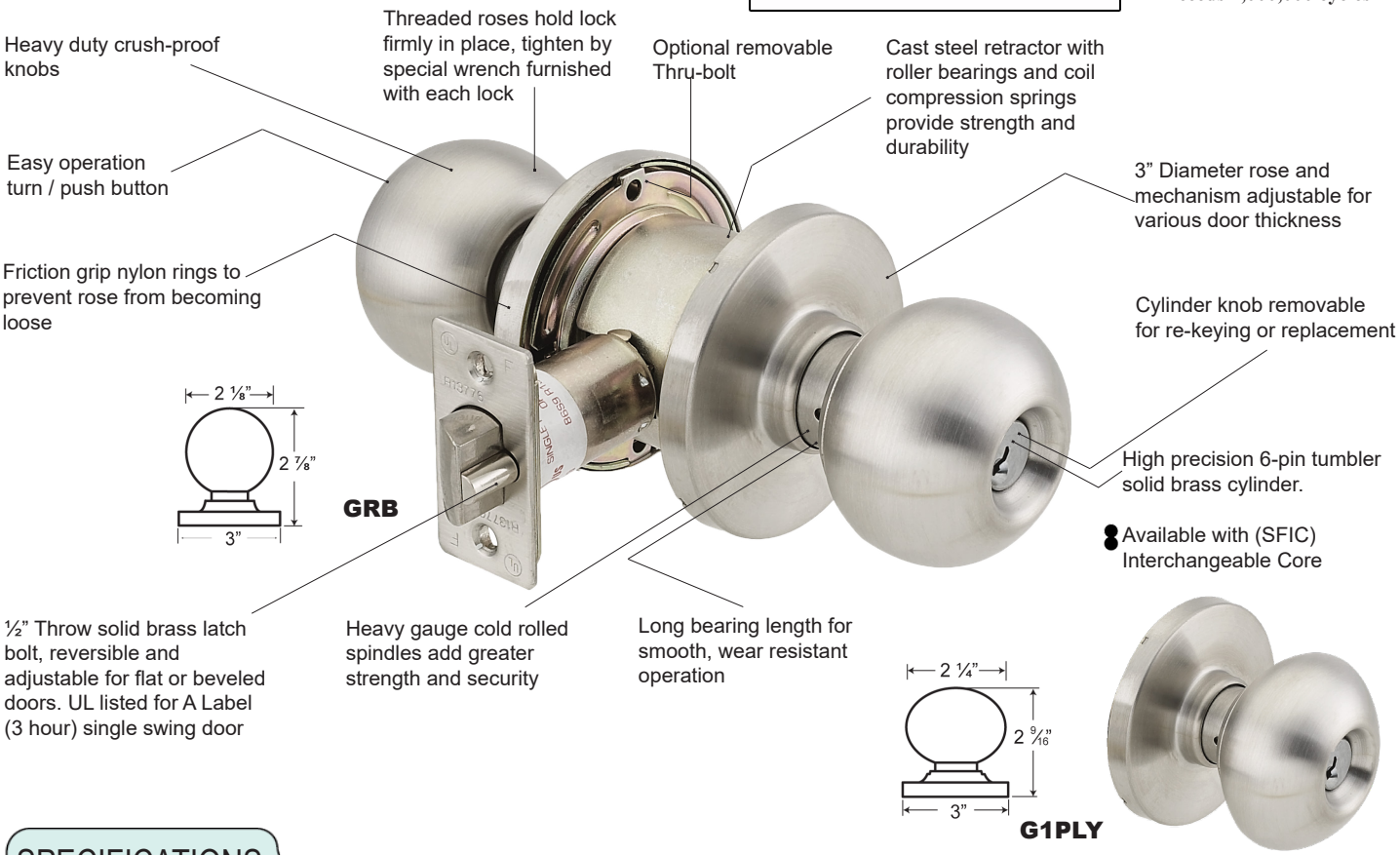
c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

MEETS
The Buy American Act

Conforms with
BHMA/ANSI A156.2
Series 4000, Grade 1
Exceeds 1,000,000 cycles



SPECIFICATIONS

DOOR RANGES
Adjustable 1 ⅜" to 2" door thickness.

BACKSET
2 ¾" Standard, 2 ⅜", 3 ¾", 5" and 2 ¾" anti-friction latch with ¾" throw for pair of fire doors optional.

LATCH FACEPLATE
Standard 2 ¼" x 1 ⅛" for 2 ¾" backset.
Optional 2 ¼" x 1 ⅛" for 2 ⅜" backset.

STRIKES
ASA strike standard, 4 ⅞" x 1 ¼". Optional "T" and full lip strike available on request.

KEYWAY
6-pin "C" keyway cylinder, 2 keys per lock.

BORE DIAMETER
1" for latch. 2 ⅛" for lock housing.

HANDING
Completely reversible.

ADDITIONAL KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

ELECTRIFIED LOCKS, TACTILE & LEAD LINING
Available upon request.

INTERCHANGEABLE CORE
Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number. Available combinated or uncombinated. Temporary construction cores available. Factory keying with control key and master key available.

EXPOSED TRIM
Wrought brass, bronze or stainless steel.

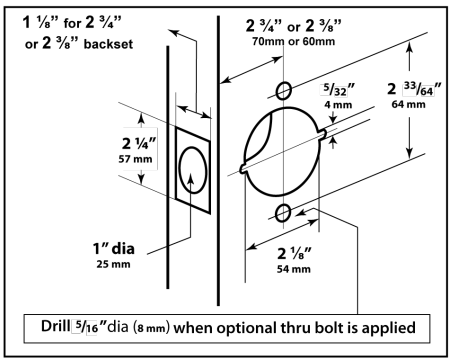
ANSI STANDARDS
Meets or exceeds requirements of BHMA / ANSI A156.2 Series 4000 for Grade 1 (FF-H-106C)

OMEGA GRB SERIES FINISHES AND FUNCTIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome
630	US32D	Satin Stainless Steel

Refer to price list for stock finishes and functions

DOOR PREPARATION

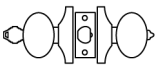


LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

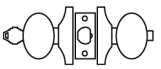
c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

GRB00
ICGRB00
ANSI F109



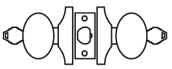
ENTRANCE / OFFICE LOCK
Turn / Push button locking. Pushing and turning button locks outside knob requiring use of key until button is manually unlocked. Pushing button locks outside knob until unlocked with key or inside knob is turned.

GRB01
ICGRB01
ANSI F82



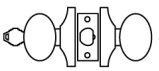
ENTRANCE / PUSH BUTTON LOCK
Pushing button in inside knob locks outside knob. Turning inside knob or operating key in outside knob releases button automatically. Closing door does not release button. Button cannot be fixed in lock position. Inside knob always free. Latch bolt automatically deadlocks when door is closed.

GRB02
ICGRB02
ANSI F91



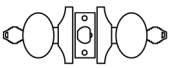
STORELOCK
Deadlocking latch bolt operated by knob from either side, except when both knobs are locked by key in knob from either side.

GRB03
ICGRB03
ANSI F84



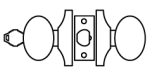
CLASSROOM
Deadlocking latch bolt operated by knob from either side except when outside knob is locked from outside by key. When outside knob is locked, latch bolt is operated by turning inside knob.

GRB04
ICGRB04
ANSI F80



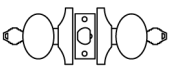
COMMUNICATING
Deadlocking latch bolt operated by knob from either side. Turning key in either knob locks or unlocks its own knob independently.

GRB05
ICGRB05
ANSI F86



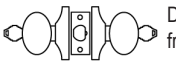
STOREROOM
Deadlocking latch bolt operated by key in outside knob or by rotating inside knob. Outside knob is always fixed.

GRB06
ICGRB06
ANSI F88



VESTIBULE
Deadlocking latch bolt operated by knob from either side except when outside knob is locked by key from inside. Latch bolt may be retracted by key in outside knob or by rotating inside knob.

GRB09
ICGRB09
ANSI F87



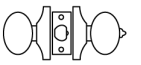
INSTITUTION
Deadlocking latch bolt operated by key in knob from either side. Both knobs are always fixed.

GRB80
ICGRB80



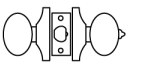
EXIT LOCK / CONNECTING ROOM
Deadlocking latch bolt operated with key from inside only. Blank plate outside.

GRB10
ANSI F77



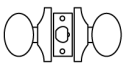
PATIO LOCK
Deadlocking latch bolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by rotating inside knob or closing door.

GRB20
ANSI F76



PRIVACY LOCK
Latch bolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by emergency release outside. Turning inside knob or closing door releases push button.

GRB30
ANSI F75



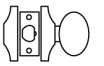
PASSAGE SET
Latch bolt operated by knob from either side at all times.

GRB40



DUMMY LEVER
Single dummy trim for one side of door. Pull only.

GRB50
ANSI F89



EXIT LOCK
Deadlocking latch bolt by inside knob. Outside plate only.

"IC" Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

HOW TO ORDER: For "G1PLY" Designs, replace design name.
Example: GRB00 entrance in "G1PLY" is G1PLY00.

OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST

CRB800 SERIES GRADE 1 HEAVY DUTY DEADBOLTS

FOR COMMERCIAL AND RESIDENTIAL APPLICATIONS

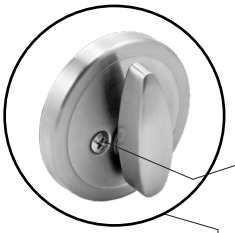
c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

MEETS
The Buy American Act

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI / BHMA A156.36, Grade 1 Requirements, Exceeds 250,000 Cycles



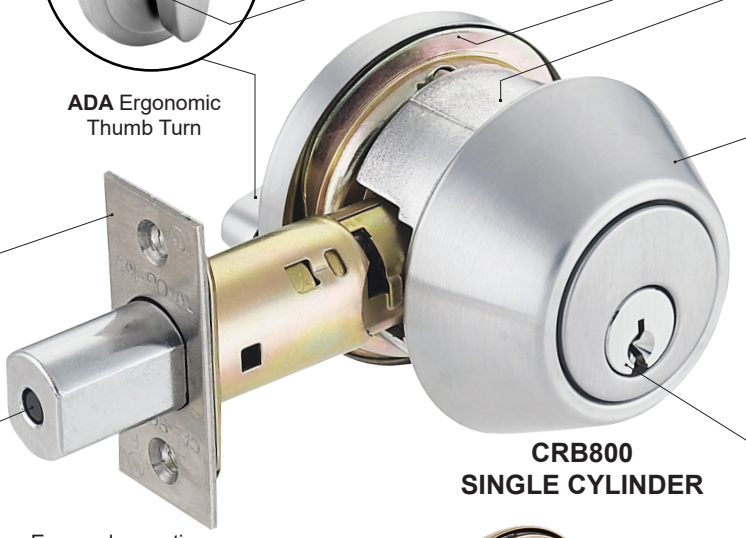
Exposed mounting screws on single cylinder deadbolt

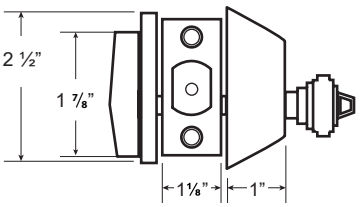
Steel mounting plate

Anti-pry shield (Zinc Alloy)

ADA Ergonomic Thumb Turn

Free turning, wrench-resistant tapered cylinder ring





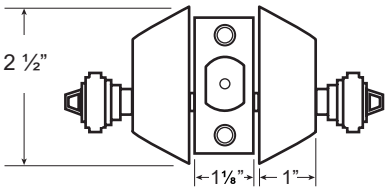
Sturdy, all steel latch case and mechanism

3HR UL Fire rated, 1" (25mm) throw high-strength steel alloy deadbolt with anti-saw pin

CRB800
SINGLE CYLINDER

Exposed mounting screws on double cylinder deadbolt

Removable Solid Brass Standard "C" 6-pin cylinder.





- Available with Small Format Interchangeable Core
- Full Size Interchangeable Core for Schlage Available for Single Cylinder and Classroom only.

CRB700
DOUBLE CYLINDER

SPECIFICATIONS

TRIM
Wrought Brass or Stainless Steel.

DOOR RANGES
Adjustable 1 ⅜" (40mm) to 2" (51mm) door thickness.

BACKSET
UL Listed 3 Hour Fire Rating 2 ¾" latch bolt.
2 ⅜" optional.

DEADBOLT FACEPLATE
Standard 2 ¼" x 1 ⅛" for 2 ¾" backset.
Optional 2 ¼" x 1" for 2 ⅜" backset.

STRIKE
1 ⅛" x 2 ¾" square corner. Extra security 1" throw bolt with ¼" free spinning anti-cut through pin. 2 pcs x 3" screws with wood frame reinforcer greatly strengthens door frames.

BORE DIAMETER
1" for latch, 2 ⅛" for lock housing.

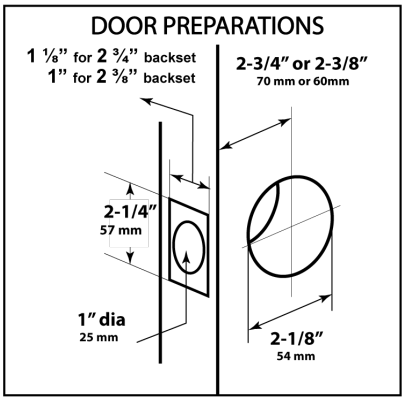
KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

INTERCHANGEABLE CORE (IC)
Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Also available with SCHLAGE large format cylinders.

CRB800 SERIES FINISHES AND FUNCTIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions



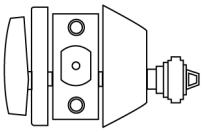
LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

CRB800
- **ICCRB800**
- **ICSCCRB800**

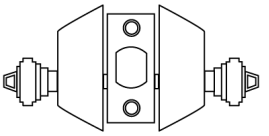
ANSI E0151



Heavy Duty Single Cylinder Deadbolt
Deadbolt thrown or retracted by key from outside or by inside turn unit. Bolt automatically deadlocks when fully thrown.

CRB700
- **ICCRB700**

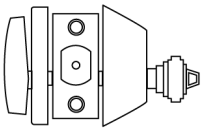
ANSI E0141



Heavy Duty Double Cylinder Deadbolt
Deadbolt thrown or retracted by key from either side. Bolt automatically deadlocks when fully thrown.

CRB600
- **ICCRB600**
- **ICSCCRB600**

ANSI E0171



Classroom Deadbolt Lock
Deadbolt thrown or retracted by key outside.
Inside turn unit will retract bolt only.
Bolt automatically deadlocks when fully thrown.

OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

- "IC" Indicates functions available with Interchangeable Core compatible with 6 or 7 pin cores by Best, Falcon and Arrow.
- Full Size Interchangeable Core for Schlage Available for Single Cylinder and Classroom only.

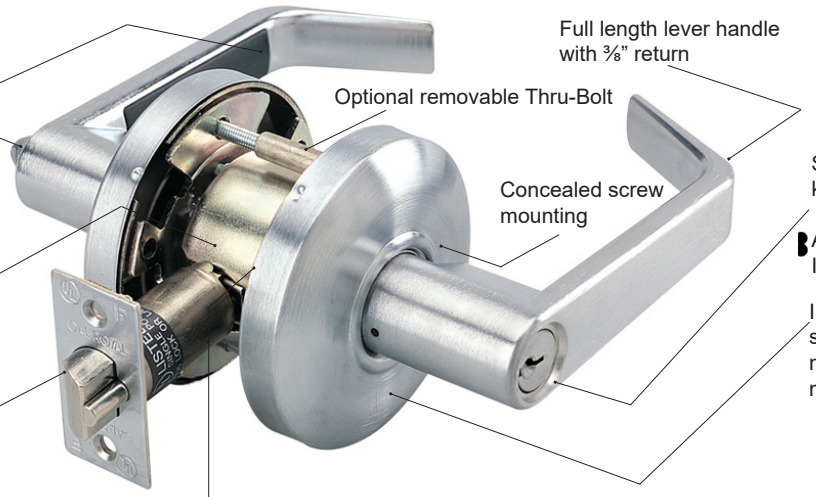
PIONEER

SL SERIES (NON-CLUTCH MECHANISM)
CSL SERIES (CLUTCH MECHANISM)
OPTIONAL THRU BOLT INSTALLATION

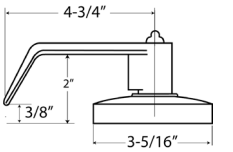
LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act

c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997 | HURRICANE APPROVED HARDWARE FLORIDA BUILDING CODE FL13922-R7 ASTM E1886/E1996 ASTM E330 TAS 201, 202, 203 UL10B & UL10C | HURRICANE APPROVED HARDWARE TEXAS EVALUATION ID DR-472 ASTM E1886/E1996 ASTM E330 TAS 201, 202, 203

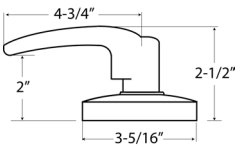
Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI / BHMA A156.2, Series 4000, Grade 2 Requirements
Exceeds 400,000 Cycles



SL DESIGN

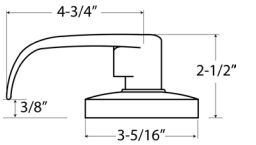






AG DESIGN





RL DESIGN

SPECIFICATIONS

APPLICATIONS
For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

DOOR RANGES
1 ⅜" to 1 ¾" thickness doors.

BACKSET
2 ¾" Standard, 2 ⅜", 3 ¾" and 5" optional.

LATCH BOLT
½" Throw solid brass, reversible for RH or LH applications. UL Listed.

LATCH FACEPLATE
2 ¼" x 1 ⅛", adjustable for flat or beveled doors ⅛" in 2", for 2 ¾" backset. Optional 2 ¼" x 1" for 2 ⅜" backset.

ANSI STANDARDS
Meets or exceeds requirements of BHMA / ANSI A156.2 Series 4000, Grade 2 (FF-H 106C), 400,000 cycles.

EXPOSED TRIM
Wrought brass, bronze or stainless steel, levers are Zinc casting, plated to match trim finish.

KEYING
6-pin "C" keyway cylinder, 2 keys per lock. Keying as per individual job requirement.

CYLINDER & KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

CLUTCH
Clutch available on all keyed locks and privacy functions. Prefix "C" before part number.

INTERCHANGEABLE CORE
Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number. Available combinated or uncombinated. Temporary construction cores available. Factory keying with control key and master key available.

STRIKES
ASA strike standard, "T" and full lip strike available on request.

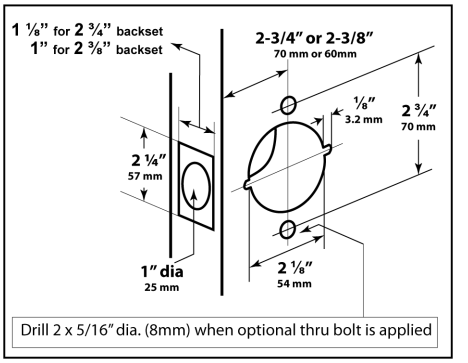
TACTILE & LEAD LINING available upon request.

PIONEER SL SERIES FINISHES AND FUNCTIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
622	US1	Flat Black Coated
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613E	US10BE	Dark Oxidized Satin Bronze, Equivalent
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

DOOR PREPARATION



Drill 2 x 5/16" dia. (8mm) when optional thru bolt is applied

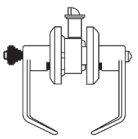
LIFETIME WARRANTY

BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.

c UL us

3 HOUR FIRE RATED
UL10C, UBC7-2-1997

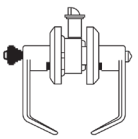
SL00
ICSL00
CSL00
ANSI: F109



ENTRANCE / OFFICE LOCK

Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

SL00/T220

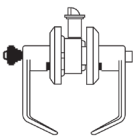




COMBINATION ENTRANCE / OFFICE LOCK AND SINGLE CYLINDER DEADBOLT -- KA / 2 PACKED TOGETHER

Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned. Dead locking latch bolt retracted by key from outside or by thumb turn on inside. Adjustable 2 ⅜" or 2 ¾" backset.

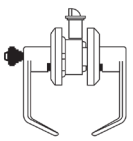
SL01
ICSL01
CSL01
ANSI: F82



ENTRANCE LOCK PUSH BUTTON

Pushing button in inside lever locks outside lever. Turning inside lever or operating key in outside lever releases button automatically. Closing door does not release button. Button cannot be fixed in lock position. Inside lever always free. Latch bolt automatically deadlocks when door is closed.

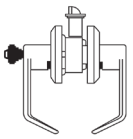
SL03
ICSL03
CSL03
ANSI: F84



CLASSROOM LOCK

Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

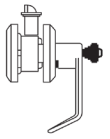
SL05
ICSL05
CSL05
ANSI: F86



STOREROOM LOCK

Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.

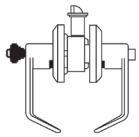
SL80
ICSL80
CSL80
ANSI: F89



EXIT LOCK
CONNECTING ROOM WITH KEY

Deadlocking latch bolt operated with key from inside only. Blank plate outside.

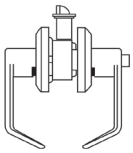
SL101
ICSL101
CSL101
ANSI: F90



DORMITORY / ASSISTED LIVING

Deadlocking latch bolt operated by lever from either side except when outside lever is locked by key or by push button on inside lever. Key in outside lever locks or unlocks outside lever. Outside key releases push button when locked from inside. Rotating inside lever or closing the door releases push button.

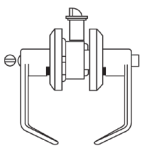
SL10
CSL10
ANSI: F77



PATIO

Deadlocking latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by rotating inside lever or closing door.

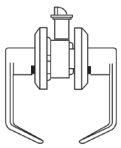
SL20
CSL20
ANSI: F76



PRIVACY LOCK

Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

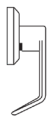
SL30
ANSI: F75



PASSAGE SET

Latch bolt operated by lever from either side at all times.

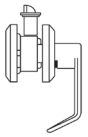
SL40



DUMMY LEVER

Single dummy trim for one side of door. Pull only.

SL50
ANSI: F89



EXIT LOCK

Blank plate outside. Inside lever always unlocked.

HOW TO ORDER:
For "AG" or "RL" designs, replace design name.
Example: SL00 entrance in "AG" is AG00.

"IC" Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

"CSL" Indicates function available with clutch.
OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST.

EXPLORER

XP SERIES (NON CLUTCH MECHANISM)
CXP SERIES (CLUTCH MECHANISM)
OPTIONAL THRU BOLT INSTALLATION

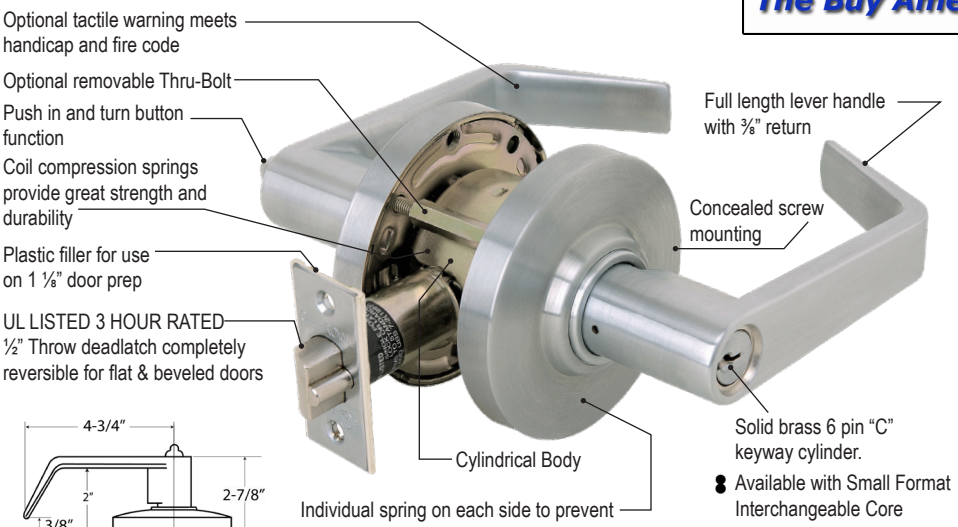
c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

MEETS
The Buy American Act

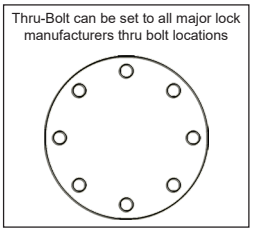
Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with BHMA / ANSI A156.2 Series 4000, Grade 2, Exceeds 400,000 Cycles

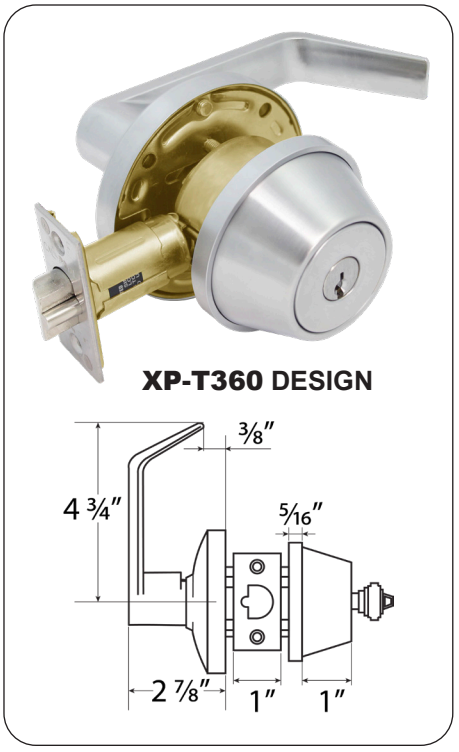


XP DESIGN



XPRL DESIGN





XP-T360 DESIGN

SPECIFICATIONS

APPLICATIONS
For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

DOOR RANGES
1 ⅜" to 2" thickness doors; 1 ¾" Standard for **XP-T360**
(Optional Adapter Ring for 1 ⅜" thick doors for XP-T360)

BACKSET
2 ¾" Standard, 2 ⅜", 3 ¾" and 5" optional.;
2 ⅜" Standard for **XP-T360**

LATCH BOLT
½" Throw solid brass, reversible for RH or LH applications. UL Listed.

LATCH FACEPLATE
2 ¼" x 1", square corner packed with ⅛" filler for 1 ⅛" width.

ANSI STANDARDS
Meets or exceeds requirements of BHMA / ANSI A156.2 Series 4000, Grade 2 (FF-H 106C), 400,000 cycles.

STRIKES
ASA strike standard, "T" and full lip strike available on request.

EXPOSED TRIM
Wrought Brass, Bronze or Stainless Steel. Levers are Zinc Casting, plated to match trim finish.

KEYING
6-pin "C" keyway cylinder, 2 keys per lock. Keying as per individual job requirement.

CYLINDER & KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

● **INTERCHANGEABLE CORE (IC)**
Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number. Available combinated or uncombinated. Temporary construction cores available. Factory keying with control key and master key available.

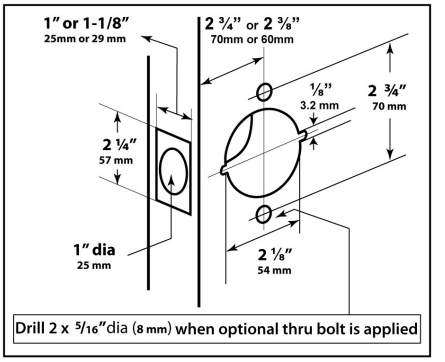
TACTILE & LEAD LINING available upon request.

EXPLORER XP SERIES FINISHES AND FUNCTIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

DOOR PREPARATION

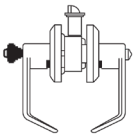


LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

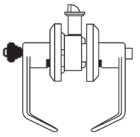
c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

XP00
ICXP00
CXP00
ANSI: F109



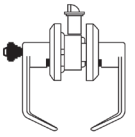
ENTRANCE / OFFICE LOCK
Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

XP01
ICXP01
CXP01
ANSI: F82



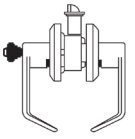
ENTRANCE LOCK PUSH BUTTON
Pushing button in inside lever locks outside lever. Turning inside lever or operating key in outside lever releases button automatically. Closing door does not release button. Button cannot be fixed in lock position. Inside lever always free. Latch bolt automatically deadlocks when door is closed.

XP03
ICXP03
CXP03
ANSI: F84



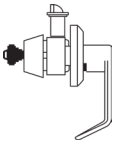
CLASSROOM LOCK
Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

XP05
ICXP05
CXP05
ANSI: F86



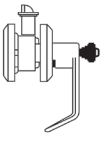
STOREROOM LOCK
Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.

XP-T360-05
ANSI: F86



STOREROOM LOCK AND SINGLE CYLINDER DEADBOLT COMBINATION
Dead locking latch bolt operated by key in outside deadbolt or by rotating inside lever. Outside deadbolt is always fixed.

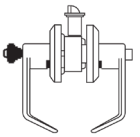
XP80
ICXP80
CXP80
ANSI: F89



EXIT LOCK
CONNECTING ROOM WITH KEY
Deadlocking latch bolt operated with key from inside only. Blank plate outside.

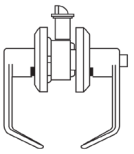
HOW TO ORDER:
For "XPRL", replace design name.
Example: XP00 entrance in "XPRL" is XPRL00.

XP101
ICXP101
CXP101
ANSI: F90



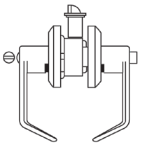
DORMITORY / ASSISTED LIVING
Deadlocking latch bolt operated by lever from either side except when outside lever is locked by key or by push button on inside lever. Key in outside lever locks or unlocks outside lever. Outside key releases push button when locked from inside. Rotating inside lever or closing the door releases push button.

XP10
CXP10
ANSI: F77



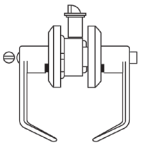
PATIO
Deadlocking latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by rotating inside lever or closing door.

XP20
CXP20
ANSI: F76



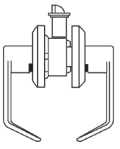
PRIVACY LOCK
Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

HXP20
HCXP20



HOSPITAL PRIVACY LOCK
Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by turning turn button. Turning inside lever or closing door releases push button.

XP30
ANSI: F75



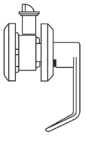
PASSAGE SET
Latch bolt operated by lever from either side at all times.

XP40



DUMMY LEVER
Single dummy trim for one side of door. Pull only.

XP50
ANSI: F89



EXIT LOCK
Blank plate outside. Inside lever always unlocked.

"IC" Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

"CXP" Indicates function available with Clutch.

OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST.

TUSCANY

CLUTCH MECHANISM
OPTIONAL THRU BOLT INSTALLATION

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

MEETS
The Buy American Act

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI / BHMA A156.2, Series 4000, Grade 2 Requirements, Exceeds 400,000 Cycles

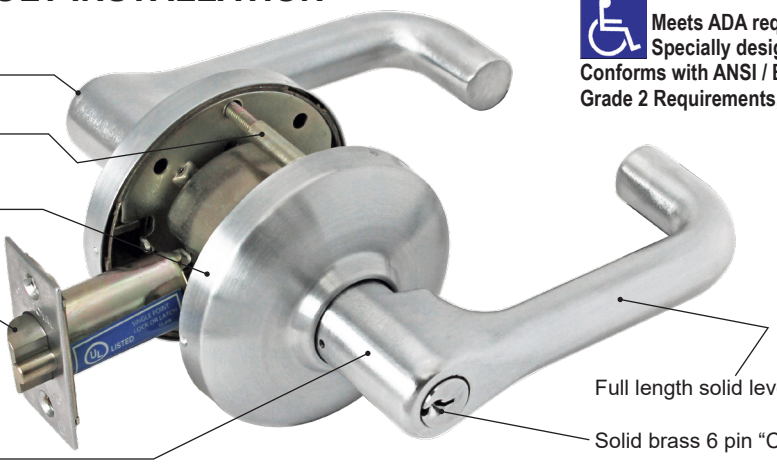
Push in and turn button function

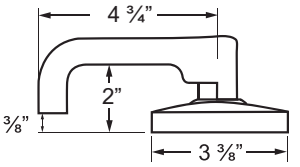
Optional Removable Thru-Bolt

Individual spring on each side to prevent lever sag, maintain reliability and reduce maintenance

UL LISTED 3 HOUR RATED
½" Throw deadlatch completely reversible for flat & beveled doors

Free turning handle in the locked position, without retracting the latch to prevent breaking of handle





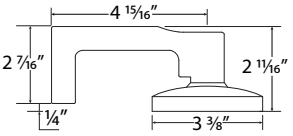
Full length solid lever handle with ⅜" return

Solid brass 6 pin "C" keyway cylinder.

Available with Small Format Interchangeable Core

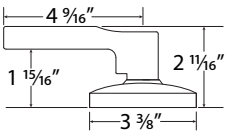


2-AUG DESIGN



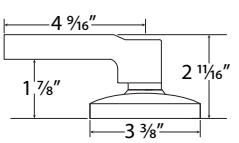


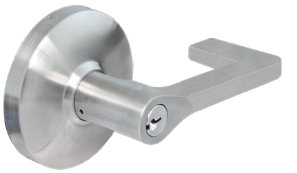
2-DAN DESIGN



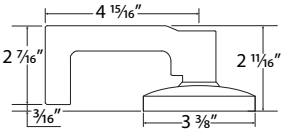


2-LON DESIGN





2-TAC DESIGN



SPECIFICATIONS

GENERAL
Full length 4 ¾" lever handle with ⅜" return. Rose diameter 3 ⅜". Key removable outside lever for fast re-keying. Non-handed levers. Concealed mounting screws.

CLUTCH
Free turning handle in the lock position without retracting the latch, to deter breaking of handle.

APPLICATIONS
For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

DOOR RANGES
1 ⅜" to 1 ¾" thickness. 2" to 2 ¼" thickness also available upon request.

ANSI STANDARDS
Meets or exceeds BHMA/ANSI A 156.2 Series 4000, Grade 2 (FF-H 106C)

LATCH FACEPLATE
Standard 2 ¼" x 1 ⅛" for 2 ¾" backset.

TRIM
Optional thru-bolted assembly through door with separate spring cage for each lever.

STRIKES
ASA 1 ¼" x 4 ⅞" standard. Other strikes available upon request.

CYLINDER & KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

HOUSING
Cold Rolled Steel and Zinc Dichromate finish for rust resistance with precision cast steel retractor. 2 ⅛" diameter bore.

INTERCHANGEABLE CORE (IC)
Interchangeable Core locks will accept compatible 6 or 7 pin cores with **BEST, FALCON and ARROW**. Prefix "**IC**" before part number. Available combinated or uncombinated. Temporary construction cores available. Factory keying with control key and master key available.

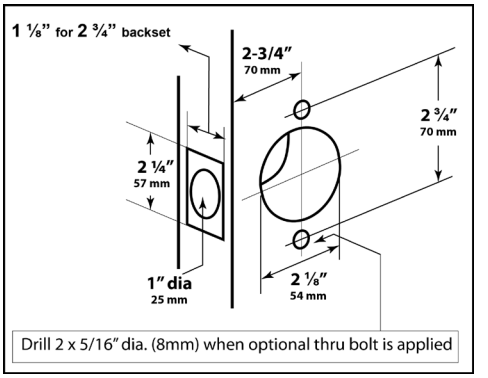
LATCH OPTIONS
2 ¾" standard, brass with ½" throw. 2 ⅜", 3 ¾" and 5" backset optional. GND750 deadlatch reversible for flat and beveled door. ¾" throw anti-friction deadlatch for pair of fire doors.

TUSCANY "TUSL" SERIES FINISHES AND FUNCTIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

DOOR PREPARATION



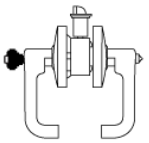
Drill 2 x 5/16" dia. (8mm) when optional thru bolt is applied

c UL US
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

HOW TO ORDER:

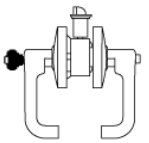
Replace "**TUSL**" with "**2-AUG**", "**2-DAN**", "**2-LON**", or "**2-TAC**" design name when ordering.
Example: CTUSL00 entrance in "**2-AUG**" design is "**C2-AUG00**".

CTUSL00
ICCTUSL00
ANSI: F109
FED#161A/160A



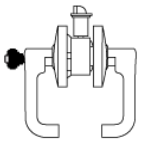
ENTRANCE / OFFICE LOCK
Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

CTUSL01
ICCTUSL01
ANSI: F82
FED#161B/160B



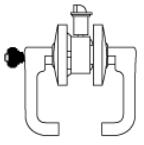
ENTRANCE LOCK PUSH BUTTON
Pushing button in inside lever locks outside lever. Turning inside lever or operating key in outside lever releases button automatically. Closing door does not release button. Button cannot be fixed in lock position. Inside lever always free. Latch bolt automatically deadlocks when door is closed.

CTUSL03
ICCTUSL03
ANSI: F84
FED#161R/160R



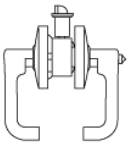
CLASSROOM LOCK
Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

CTUSL05
ICCTUSL05
ANSI: F86
FED#161D/160D



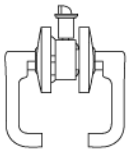
STOREROOM LOCK
Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.

TUSL20
CTUSL20
ANSI: F76



PRIVACY LOCK
Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

TUSL30
ANSI: F75



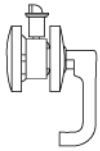
PASSAGE SET
Latch bolt operated by lever from either side at all times.

TUSL40



DUMMY LEVER
Single dummy trim for one side of door. Pull only.

TUSL50
ANSI: F89



EXIT LOCK
Blank plate outside. Inside lever always unlocked.

"IC" Indicates function available with BEST, FALCON & ARROW Interchangeable Core.
ALL OTHER FUNCTIONS NOT LISTED ARE AVAILABLE ON SPECIAL ORDER

COMMANDER

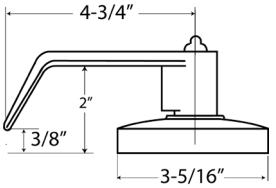
CLUTCH MECHANISM
OPTIONAL THRU BOLT INSTALLATION
Interchangeable Core for SCHLAGE, SARGENT, CORBIN / RUSSWIN, & YALE

c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997

LIFETIME WARRANTY

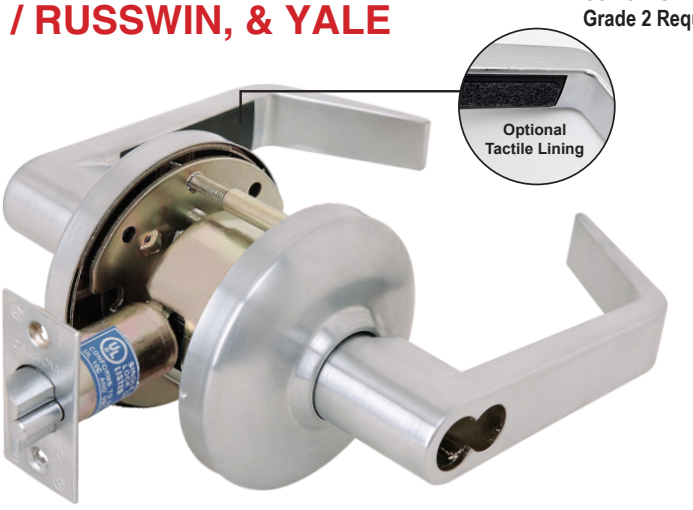
MEETS *The Buy American Act*

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI / BHMA A156.2, Series 4000, Grade 2 Requirements, Exceeds 400,000 Cycles



COM DESIGN

CLUTCH
Free turning handle in the locked position, without retracting the latch to help prevent breaking of handle





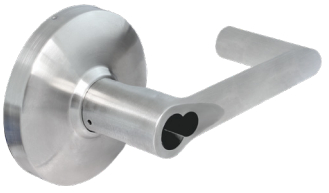
2-SPA DESIGN



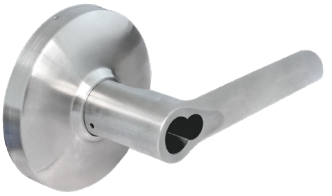
2-AT DESIGN

***YALE LFIC ONLY AVAILABLE IN 2-AT & 2-SPA LEVER DESIGNS**

***SARGENT & CORBIN / RUSSWIN LFIC ONLY AVAILABLE IN 2-AT, 2-SPA, 2-AUG, 2-DAN, 2-LON, & 2-TAC LEVER DESIGNS**



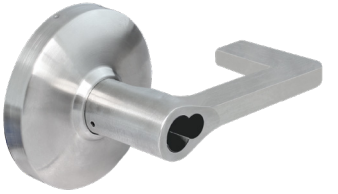
2-AUG DESIGN



2-DAN DESIGN



2-LON DESIGN



2-TAC DESIGN

SPECIFICATIONS

APPLICATIONS
For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

DOOR RANGES
1 ⅜" to 1 ¾" thickness doors.

BACKSET
2 ¾" Standard, 2 ⅜", 3 ¾" and 5" optional.

LATCH FACEPLATE
2 ¼" x 1 ⅛", adjustable for flat or beveled doors ⅛" in 2", for 2 ¾" backset. Optional 2 ¼" x 1" for 2 ⅜" backset.

EXPOSED TRIM
Wrought brass, bronze or stainless steel, levers are Zinc casting, plated to match trim finish.

STRIKES
ASA strike standard, "T" and full lip strike available on request.

LATCH BOLT
½" Throw solid brass, reversible for RH or LH applications. UL Listed.

ANSI STANDARDS
Meets or exceeds requirements of BHMA / ANSI A156.2 Series 4000, Grade 2 (FF-H 106C), 400,000 cycles.

TACTILE & LEAD LINING available upon request.

LARGE FORMAT INTERCHANGEABLE CORE (IC)
Interchangeable Core locks will accept compatible:

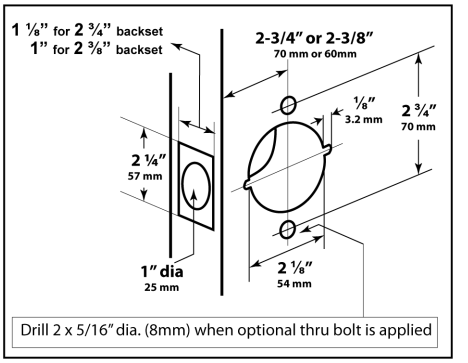
- 6 pin cores **SCHLAGE** large format cylinders in all seven lever designs: **COM, 2-AT, 2-SPA, 2-AUG, 2-DAN, 2-LON, and 2-TAC**
- 6 or 7 pin cores **CORBIN / RUSSWIN,** and 6 pin cores with **SARGENT,** in **2-AT, 2-SPA, 2-AUG, 2-DAN, 2-LON, and 2-TAC** designs only.
- 6 pin cores **YALE** large format cylinders in **2-AT, and 2-SPA** lever designs only.
- and compatible **Schlage 6-pin** Interchangeable Core. Interchangeable Core offered by Cal-Royal. ***See reverse page.***

COMMANDER SERIES FINISHES AND FUNCTIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

DOOR PREPARATION



Drill 2 x 5/16" dia. (8mm) when optional thru bolt is applied

HOW TO ORDER SCHLAGE LFIC

Design:

***ICCOM (for COM lever in Schlage LFIC)**

2-SPA / 2-AT / 2-AUG / 2-DAN / 2-LON / 2-TAC

- Replace "ICCOM" with "ICSC"
- Add: DESIGN + FUNCTION + FINISH when ordering.
- Example: ICCOM00 US26D in "2-SPA" design, Entrance function with US26D finish will be: "ICSC2-SPA00 US26D"

HOW TO ORDER CORBIN / RUSSWIN, SARGENT, YALE LFIC

Keyway: RUSIC / SARIC / YALIC

RUSIC - Corbin / Russwin Large Format IC
SARIC - Sargent Large Format IC
YALIC - Yale Large Format IC

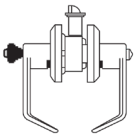
Design:

2-SPA / 2-AT / 2-AUG / 2-DAN / 2-LON / 2-TAC

***Note: Yale LFIC is only available in 2-AT, & 2-SPA lever designs**

- Specify: Replace "ICCOM" with specified KEYWAY,
- Add: DESIGN + FUNCTION + FINISH when ordering.
- Example: "ICCOM00 US26D with Corbin/Russwin Keyway, in "2-SPA" design, Entrance function with US26D finish will be: "RUSIC2-SPA00 US26D"

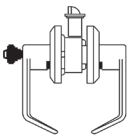
ICCOM00
ANSI: F109



ENTRANCE / OFFICE LOCK

Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

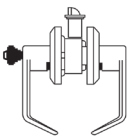
ICCOM03
ANSI: F84



CLASSROOM LOCK

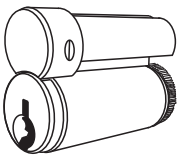
Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

ICCOM05
ANSI: F86



STOREROOM LOCK

Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.



Large Format 6 Pin Interchangeable Cores compatible to SCHLAGE 6 Pin Interchangeable Core

ITEM #	DESCRIPTION
3000ICC	6 Pin "C" keyway combinated SCHLAGE large format IC core cylinder KA# 111111 with "C" key blanks
4000ICCK	6 Pin "C-K" keyway combinated SCHLAGE large format IC core cylinder KA# 111111 with "E" key blanks
5000ICE	6 Pin "E" Keyway combinated SCHLAGE large format IC core cylinder KA# 111111 with "E" key blanks
1000ICC	6 Pin "C" Keyway combinated SCHLAGE large format IC core cylinder KD and MK
2000ICCC	Temporary Construction Cores (Keyed alike)
Available Finishes: US3, US26D	

(IC) Accepts Schlage Full Size Format OEM IC Core Cylinders with Interchangeable Core **for COM design only**.

Indicates function available with SCHLAGE, CORBIN / RUSSWIN, SARGENT and YALE Interchangeable Core.

OTHER FUNCTIONS NOT LISTED AVAILABLE UPON REQUEST.

CHALLENGER

NON CLUTCH MECHANISM CYLINDRICAL LEVERSET

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

MEETS
The Buy American Act

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI A156.2 Series 4000, Grade 2
Exceeds 400,000 cycles

Optional tactile warning meets handicap and fire code

Push in and turn button function

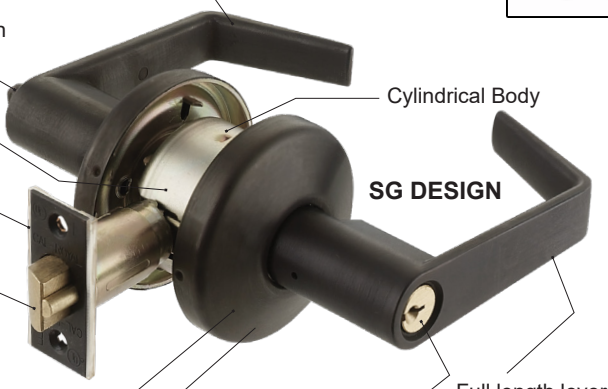
Coil compression springs provide great strength and durability

Plastic filler for use on 1 ⅛" door prep

UL LISTED 3 HOUR RATED ½" Throw deadlatch completely reversible for flat & beveled doors

Individual spring on each side to prevent lever sag, maintain reliability and reduce maintenance

Concealed mounting screws



Cylindrical Body

SG DESIGN

Solid brass 6 pin "C" keyway cylinder.

Available with Small Format Interchangeable Core

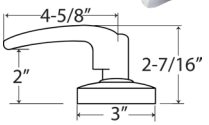
Full length lever handle with ⅜" return



To order Square Rose, please refer to the bottom of the next page.

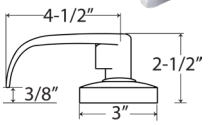


MANHATTAN
MAN DESIGN



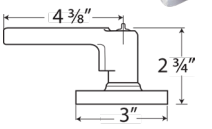


DOVER
DOV DESIGN



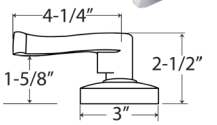


ROCHESTER
ROC DESIGN





ASTOR
AST DESIGN



SPECIFICATIONS

APPLICATIONS
For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

DOOR RANGES
1 ⅜" to 2" thickness.

BACKSET
2 ¾" Standard, 2 ⅜", 3 ¾" and 5" optional.
2 ⅜" Standard for Astor "AST" Design, 2 ¾" optional.

LATCH BOLT
½" Throw solid brass, reversible for RH or LH applications. UL Listed.

LATCH FACEPLATE
2 ¼" x 1", square corner packed with plastic filler for 1 ⅛" width.
2 ¼" x 1", round corner for Astor "AST" Design

ANSI STANDARDS
Meets or exceeds requirements of BHMA / ANSI A156.2 Series 4000, Grade 2 (FF-H 106C), 400,000 cycles.

EXPOSED TRIM
Wrought brass, bronze or stainless steel, levers are Zinc casting, plated to match trim finish.

KEYING
6-pin "C" keyway cylinder, 2 keys per lock. Keying as per individual job requirement.

CYLINDER & KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

INTERCHANGEABLE CORE
Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number. Available combinated or uncombinated. Temporary construction cores available. Factory keying with control key and master key available.

STRIKES
ASA strike standard, "T" and full lip strike available on request.
FLS strike standard for Astor "AST" Design.

TACTILE & LEAD LINING available upon request.

CHALLENGER SERIES FINISHES AND FUNCTIONS

CAL-ROYAL PRODUCTS, INC. USA

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

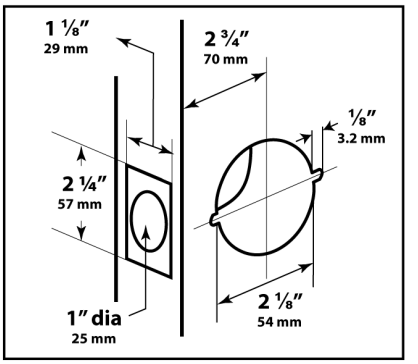
LIFETIME WARRANTY

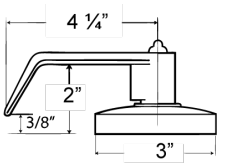
BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

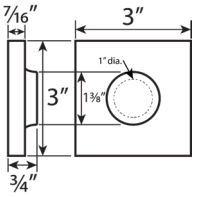
Refer to price list for stock finishes and functions

DOOR PREPARATION



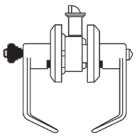


SG DESIGN



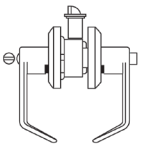
SQUARE ROSE

SG00
ICSG00
ANSI: F109



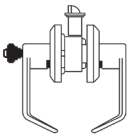
ENTRANCE / OFFICE LOCK
Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

SG20
ANSI: F76



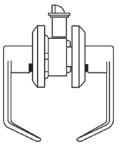
PRIVACY LOCK
Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

SG03
ICSG03
ANSI: F84



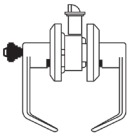
CLASSROOM LOCK
Dead locking latch bolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latch bolt is operated by turning inside lever.

SG30
ANSI: F75



PASSAGE SET
Latch bolt operated by lever from either side at all times.

SG05
ICSG05
ANSI: F86



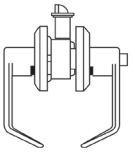
STOREROOM LOCK
Dead locking latch bolt operated by key in outside lever or by rotating inside lever. Outside lever is always fixed.

SG40



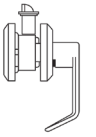
DUMMY LEVER
Single dummy trim for one side of door. Pull only.

SG10
ANSI: F77



PATIO
Deadlocking latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by rotating inside lever or closing door.

SG50
ANSI: F89



EXIT LOCK
Blank plate outside. Inside lever always unlocked.

HOW TO ORDER ROUND ROSE:
For "MAN", "AST", "ROC" or "DOV" designs, replace design name.

Example: SG00 entrance in "AST" is **AST00**

HOW TO ORDER SQUARE ROSE:
For "MAN", "AST", "ROC" or "DOV" designs, replace design name and add "-SQ" after function number.

Example: SG00 entrance in "AST" is **AST00-SQ**

"IC" Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

GRAND SERIES

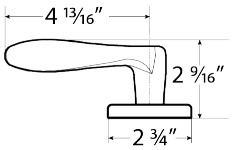
MEETS ANSI STANDARD A156.2, GRADE 2 TUBULAR LEVERSETS

MEETS
The Buy American Act

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI / BHMA A156.2, Series 4000,
Grade 2 Requirements, Exceeds 400,000 Cycles

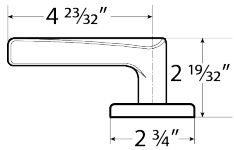


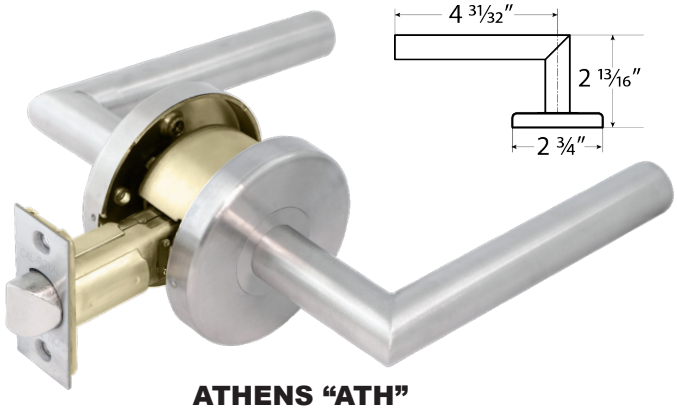
GERARD "GER"
DESIGN (HANDED)





VALENCIA "VAL"
DESIGN (HANDED)

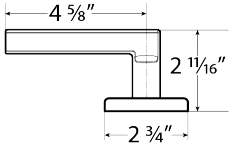




ATHENS "ATH"
DESIGN (NON-HANDED)

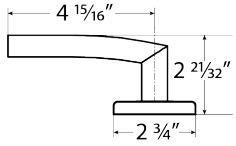


FORREST "FOR"
DESIGN (NON-HANDED)



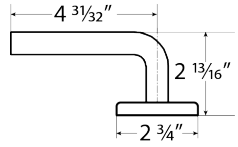


JASPER "JAS"
DESIGN (NON-HANDED)



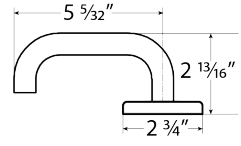


NELSON "NEL"
DESIGN (NON-HANDED)





WILSON "WIL"
DESIGN (NON-HANDED)



SPECIFICATIONS

APPLICATIONS
For hotel / guest rooms, high-end apartments, condominiums, office buildings, and home offices.

DOOR RANGES
1 ⅜" to 1 ¾" thickness doors.
2" thickness available upon request.

BACKSET
2 ¾" or 2 ⅜" backset.

LATCH FACEPLATE
2 ¼" x 1 ⅛" or 2 ¼" x 1", with plastic filler to convert 1" faceplate to 1 ⅛" wide door preparations

STRIKES
T-Strike standard. Optional ANSI and Full Lip Strike available.

EXPOSED TRIM
Stainless Steel or Zinc casting, plated to match trim finish.

HANDING
GERARD and **VALENCIA** lever designs are handed, not field reversible. Must specify R (Right) or L (Left) when ordering.

KICK-OFF FEATURE ON PRIVACY FUNCTION
Privacy function automatically unlocks if door is locked prior to closing.

Inside lever always retracts latch. Outside lever is locked by locking pin from inside and unlocked by turning inside lever, closing door, or using emergency pin on outside lever.

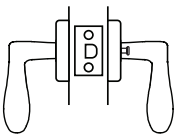
ANSI STANDARDS
Meets or exceeds requirements of BHMA / ANSI A156.2 Series 4000, Grade 2 (FF-H 106C), 400,000 cycles.

GRAND SERIES FINISHES AND FUNCTIONS

for ATHENS, JASPER, NELSON, and WILSON lever designs only		
FINISHES AVAILABLE		
BHMA SYMBOL	**US CODE**	**DESCRIPTION**
622	US1	Flat Black Coated
613E	US10BE	Dark Oxidized Satin Bronze, Equivalent
629	US32	Polished Stainless Steel
630	US32D	Satin Stainless Steel

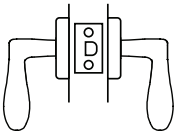
for GERARD, VALENCIA, and FORREST lever designs only		
FINISHES AVAILABLE		
BHMA SYMBOL	**US CODE**	**DESCRIPTION**
622	US1	Flat Black Coated
605	US3	Polished Brass
606	US4	Satin Brass
612	US10	Satin Bronze
613E	US10BE	Dark Oxidized Satin Bronze, Equivalent
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

ATH20
ANSI: F76



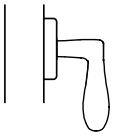
PRIVACY LOCK
Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

ATH30
ANSI: F75



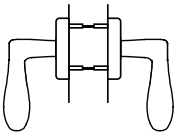
PASSAGE SET
Latch bolt operated by lever from either side
at all times.

ATH40



DUMMY LEVER
Single dummy trim for one side of door. Pull only.

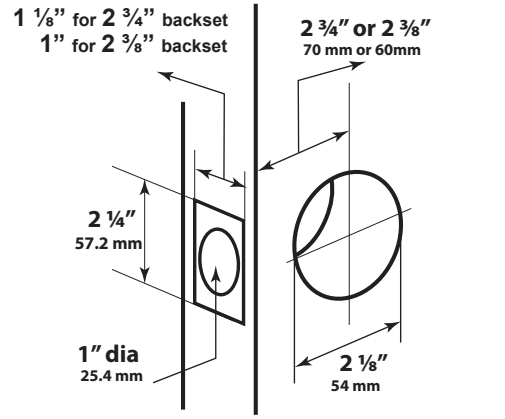
ATH70



TWO SIDED DUMMY
Double dummy trim on both sides of door. Pull only. Trim is thru-bolted.

NON-STOCK ITEMS AVAILABLE WITH FACTORY LEAD TIME.
SAMPLES FOR SUBMITTAL ARE AVAILABLE IN US32D, US26D, US26 & US1 FINISH. CONSULT FACTORY.

DOOR PREPARATIONS



HOW TO ORDER:

Replace "**ATH**" with "**GER**", "**VAL**", "**FOR**", "**JAS**", "**NEL**", or "**WIL**" design name when ordering.
Example: ATH20 privacy in "**WIL**" design is "**WIL20**".

Note: Must specify R (Right) or L (Left) when ordering "**GER**" or "**VAL**" design.

CRCODE200 SERIES

GRADE 2 MECHANICAL STAND ALONE PUSH BUTTON LOCK AND EXIT DEVICE TRIM WITH BREAKAWAY LEVER FEATURE

Meets ADA requirements
Specially designed for
Barrier Free Application
Conforms with ANSI / BHMA A156.2,
Series 4000, Grade 2 Requirements

- EASY INSTALLATION COVERS 161 PREP (2 ⅛" HOLE)
- 1 - 12 DIGIT CODE
- SINGLE CODE USER
- KEY OVERRIDE
- **EASY ON-THE-DOOR CODE CHANGE WITHOUT REMOVING THE LOCK**
- CODE-FREE OPTION (PASSAGE)
- BREAKAWAY LEVER DESIGN
- CLUTCH-FREE MECHANISM
- WEATHER RESISTANT
- NON-HANDED
- MORE THAN 8000 NON-SEQUENTIAL POSSIBLE CODE COMBINATIONS
- APPLICATIONS:
  OFFICES, SCHOOLS, HOSPITALS, APARTMENTS, HOTELS / MOTELS, RESIDENTIAL, COMMERCIAL AND PUBLIC BUILDINGS

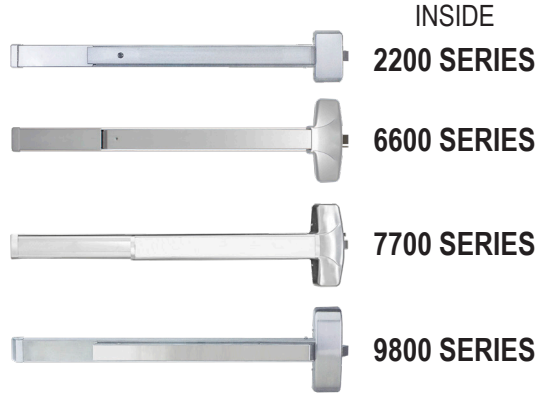


CRCODE202
Standard (Storeroom Function)
Optional (Passage Mode)



CRCODE203
Standard (Institution Function)
Optional (Storeroom, Passage Mode on both sides)





CRCODE204 Universal Trim
2200, 6600, 7700 and 9800 Series Rim and Surface Vertical Rods
Standard (Storeroom Function) Optional (Passage Mode)

SPECIFICATIONS

GENERAL
Full length 5 ½" lever handle with ⅞" return. Escutcheon dimension 3 ½" x 8 ⅛". Key removable outside lever for all models for fast re-keying. Non-handed levers. 2 ⅛" diameter bore.

BREAKAWAY LEVER DESIGN
Lever will stay at the 5 o'clock position when forced down without retracting the latch, to prevent breaking of handle.

DOOR RANGES
1 ⅜" - 2 ¼" for CRCODE202, 1 ⅜" - 1 ¾" for CRCODE203, 1 ¾" - 2" for CRCODE204

ANSI STANDARDS
Meets or exceeds ANSI A 156.2, Series 4000 Grade 2 requirements.

LATCH FACEPLATE
Standard 2 ¼" x 1 ⅛" for 2 ¾" backset for CRCODE202 and CRCODE203 only.

STRIKES
ASA 1 ¼" x 4 ⅞" standard for CRCODE202 and CRCODE203 only. Other strikes available upon request. Strikes for CRCODE204 comes standard with exit device ordered.

CYLINDER & KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

TRIM
Thru-bolted assembly through door with separate spring cage for each lever.

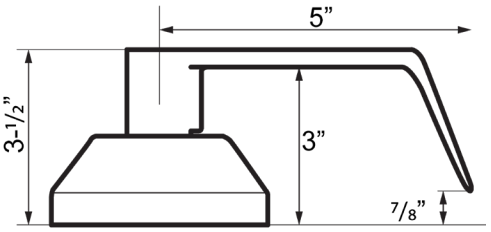
LATCH OPTIONS
2 ¾" standard, brass with ½" throw (with optional 2 ⅜" backset, 2 ¼" x 1" faceplate) for CRCODE202 and CRCODE203.

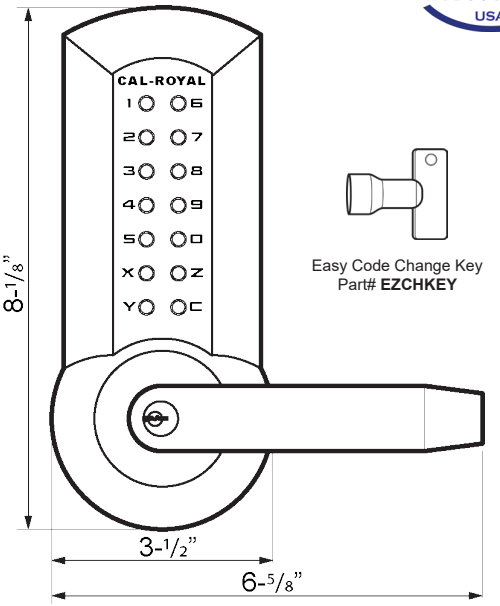
Note: CRCODE202 and CRCODE203 for Non-Fire Application Only.

CRCODE200 SERIES
FINISHES, FUNCTIONS & FEATURES

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
626	US26D	Satin Chrome
613	US10B	Oil Rubbed Bronze

Refer to price list for stock finishes and availability

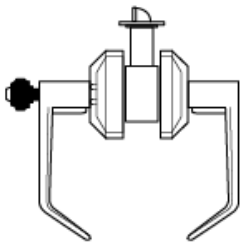




Easy Code Change Key
Part# **EZCHKEY**

FUNCTIONS

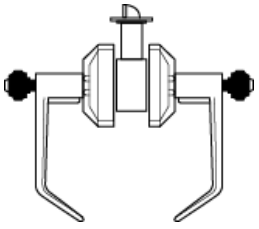
CRCODE202



Latch bolt operated by lever from either side, except outside has to enter a pre-programmed code on the keypad in order to retract the latch upon turning the lever.

Default Function: Storeroom
Optional Function: Passage Mode
Door Thickness: 1 ⅜” - 2 ¼”

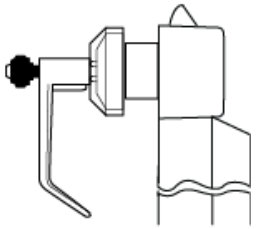
CRCODE203



Latch bolt operated by lever from either side by entering a pre-programmed code on the keypad in order to retract the latch upon turning the lever. Both lever always locked, unless one or both sides are set to passage mode. If one side is set to passage, function can be storeroom. If both sides are set to code-free, function becomes passage.

Default Function: Institution
Optional Functions: Storeroom, Passage Mode
Door Thickness: 1 ⅜” - 1 ¾”

CRCODE204



Operated by lever from outside and when push pad is depressed, except outside has to enter a pre-programmed code on the keypad in order to retract the latch upon turning the lever. For use with 2200, 6600, 7700 and 9800 Series Rim and Surface Vertical Rods.

Universal Trim
Default Function: Storeroom
Optional Function: Passage Mode
Door Thickness: 1 ¾” - 2”

FEATURES

- **SINGLE CODE USER**
  Only one code combination chosen from thousands of combinations can be set at a time to deter code breakers. Code length is from 1 to 12 digits, and can be permutated with a non-repeating digit up to over 5000 combinations.
- **EASY ON-DOOR CODE CHANGE**
  Code can be changed without removing the lock from the door and using only a “code change” key.
- **1-12 DIGIT CODE**
  An entry code can be a combination of 1 to 12 digits long. The digits can be entered in any order. For example, if the chosen 6-digit code is “5283XZ” it can be entered as “ZX3825” or “3X8Z25” or in any other combination of the 6-digit code.
- **BREAKAWAY LEVER DESIGN**
  Lever will stay at the 5 o’clock position when forced down without retracting the latch, to prevent breaking of handle and giving the impression of the handle being broken to discourage or scare off vandals.
- **CODE-FREE OPTION (PASSAGE MODE)**
  Once enabled, the lock remains unlocked until disable PASSAGE MODE is initiated. (For CRCODE203, inside and outside locks must be set)
- **WEATHER RESISTANT**
  Can resist above or below normal weather conditions without compromising security.
- **NON-HANDED**
  Easily field reversible handing.

BARRINGTON

QUALITY DESIGNED AND ENGINEERED FOR COMMERCIAL BUILDINGS

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

LIFETIME WARRANTY

MEETS
The Buy American Act

Conforms with ANSI A156.2. Series 4000, Grade 2 (FF-H-106C). Exceeds 400,000 cycles

Button push in and turn button function

Knob cannot slip or pull off. Both kept in position by positive spring catch

Internal mechanism heavy gauge cold rolled steel. All parts are zinc plated and dichromated to assure protection from rust or corrosion. Special lubricant applied for smoother operation

Throw bolt affords a high degree of security. Standard with solid, rustless, pressure cast. #300 series anti-magnetic stainless steel or brass latch bolt available with UL listed latch bolt for 3 hour rated door 4' x 8' or non UL latch bolt

Guard bolt dead locks latch bolt automatically

Latch case sturdy all steel mechanism

Inside rose, threaded 3" diameter large rose adjustable for various door thickness

Cylindrical housing 2 ⅛" diameter provides great strength and durability

Outside rose, threaded 3" diameter large rose adjustable for various door thickness

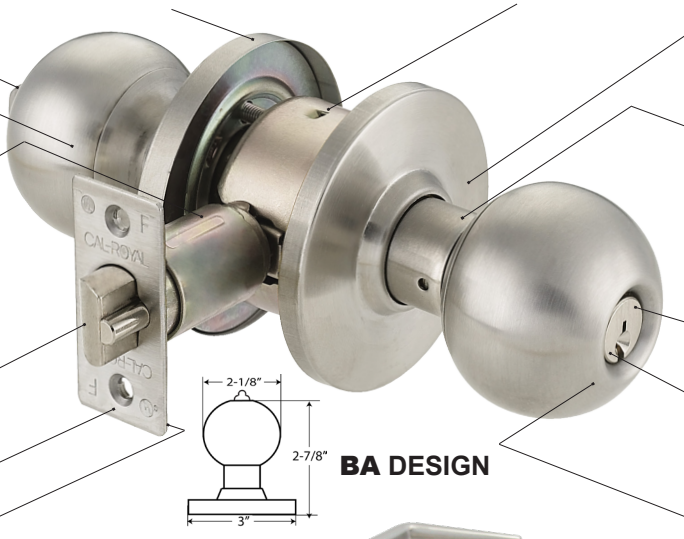
Long spindle hub eliminates hub wobble

Solid brass 6 pin "C" keyway cylinder.

Available with Best / Falcon Style (SFIC) Interchangeable Core

Cylinder precision solid brass. Pick resistant 6-pin tumbler. Must turn key one-quarter to remove and replace cylinder. Can be construction keyed and master keyed as required

Cylinder knob demountable for quick re-keying and replacement: reversible for either left or right hand door swinging in or out

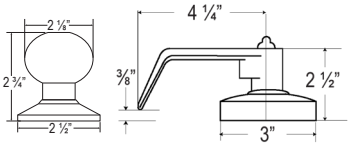


BA DESIGN



PLG DESIGN





BA-SG DESIGN

SPECIFICATIONS

DOOR RANGES
1 ⅜" to 1 ¾" thickness doors.

BACKSET
2 ¾" Standard, 2 ⅜", 3 ¾" and 5" extension available.

LATCH FACEPLATE
2 ¼" x 1 ⅛" for 2 ¾" backset, 2 ¼" x 1" for 2 ⅜" backset.

STRIKES
ANSI strike standard, 4 ⅞" x 1 ¼" . Optional "T" and full lip strike available on request.

KEYING
6-pin "C" keyway cylinder, 2 keys per lock.

EXPOSED TRIM
Wrought brass, bronze or stainless steel.

ADDITIONAL KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

BORE DIAMETER
1" for latch. 2 ⅛" for lock housing.

INTERCHANGEABLE CORE
Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number. Available combinated or uncombinated. Temporary construction cores available. Factory keying with control key and master-key available.

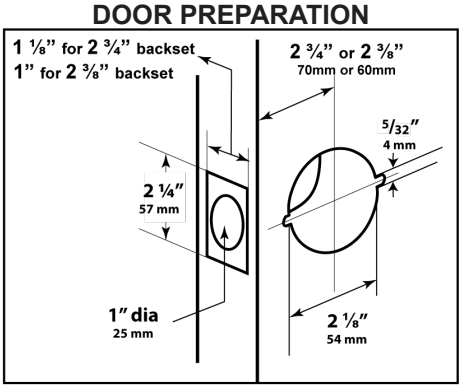
ANSI STANDARDS
Meets or exceeds requirements of BHMA / ANSI A156.2 series 4000 for Grade 2 (FF-H-106C).

BARRINGTON BA SERIES FINISHES AND FUNCTIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome
631	US19	Matte Black

Refer to price list for stock finishes and functions

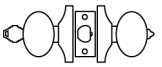
DOOR PREPARATION



LIFETIME WARRANTY

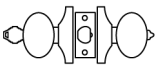
c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

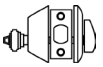
BA00
ICBA00
PLG00
ANSI F109
FED# 161A / 160A



ENTRANCE / OFFICE LOCK
Turn / Push button locking. Pushing and turning button locks outside knob requiring use of key until button is manually unlocked. Pushing button locks outside knob until unlocked with key or inside knob is turned.

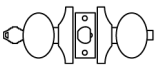
BA00 / T220





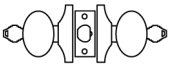
COMBINATION ENTRANCE / OFFICE LOCK AND SINGLE CYLINDER DEADBOLT -- KA / 2 PACKED TOGETHER
Turn / Push button locking. Pushing and turning button locks outside knob requiring use of key until button is manually unlocked. Pushing button locks outside knob until unlocked with key or inside knob is turned. Dead locking latch bolt retracted by key from outside or by thumb turn on inside. Adjustable 2 ⅜" or 2 ¾" backset.

BA01
ICBA01
ANSI: F82
FED#161A/160A



ENTRANCE / PUSH BUTTON LOCK
Pushing button in inside knob locks outside knob. Turning inside knob or operating key in outside knob releases button automatically. Closing door does not release button. Button cannot be fixed in lock position. Inside knob always free. Latch bolt automatically deadlocks when door is closed.

BA02
ICBA02
PLG02
ANSI F91



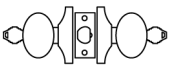
STORE LOCK
Deadlocking latch bolt operated by knob from either side, except when both knobs are locked by key in knob from either side.

BA03
ICBA03
PLG03
ANSI F84



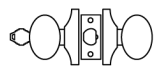
CLASSROOM
Deadlocking latch bolt operated by knob from either side except when outside knob is locked from outside by key. When outside knob is locked, latch bolt is operated by turning inside knob.

BA04
ICBA04
PLG04
ANSI F80



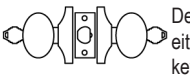
COMMUNICATING
Deadlocking latch bolt operated by knob from either side. Turning key in either knob locks or unlocks its own knob independently.

BA05
ICBA05
PLG05
ANSI F86



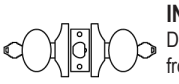
STOREROOM
Deadlocking latch bolt operated by key in outside knob or by rotating inside knob. Outside knob is always fixed.

BA06
ICBA06
ANSI F88



VESTIBULE
Deadlocking latch bolt operated by knob from either side except when outside knob is locked by key from inside. Latch bolt may be retracted by key in outside knob or by rotating inside knob.

BA09
ICBA09
PLG09
ANSI F87



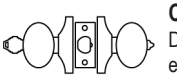
INSTITUTION
Deadlocking latch bolt operated by key in knob from either side. Both knobs are always fixed.

BA80
ICBA80
PLG50
ANSI F89



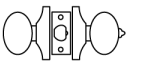
EXIT LOCK / CONNECTING ROOM
Deadlocking latch bolt operated with key from inside only. Blank plate outside.

BA101
ICBA101
ANSI F90-2



CORRIDOR LOCK / DORMITORY
Deadlocking latch bolt operated by knob from either side except when outside knob is locked by key or by push button on inside. Key in outside knob locks or unlocks outside knob. Rotating inside knob releases push button. Inside knob always operates.

BA10
ANSI F77
FED# 161P / 160P



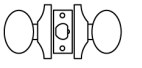
PATIO LOCK
Deadlocking latch bolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by rotating inside knob or closing door.

BA20
PLG20
ANSI F76
FED#161L / 160L



PRIVACY LOCK
Latch bolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by emergency release outside. Turning inside knob or closing door releases push button.

BA30
PLG30
ANSI F75
FED#161N / 160N



PASSAGE SET
Latch bolt operated by knob from either side at all times.

BA40
PLG40



DUMMY LEVER
Single dummy trim for one side of door. Pull only.

HOW TO ORDER:
For "**PLG**" designs, replace design name.
Example: **BA00** entrance in "**PLG**" is **PLG00**

HOW TO ORDER:
For **SG** inside lever use "**BA-SG**" followed by function number.
Example: **BA05** storeroom with **SG** inside lever is **BA-SG05**

(IC) Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

ALL OTHER FUNCTIONS NOT LISTED ARE AVAILABLE ON SPECIAL ORDER

HIL SERIES

INTERCONNECTED LOCKS
4" CTC BORE
ANSI A156.12 GRADE 2

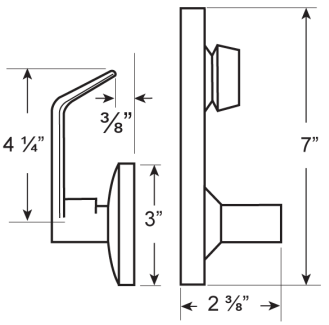
c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

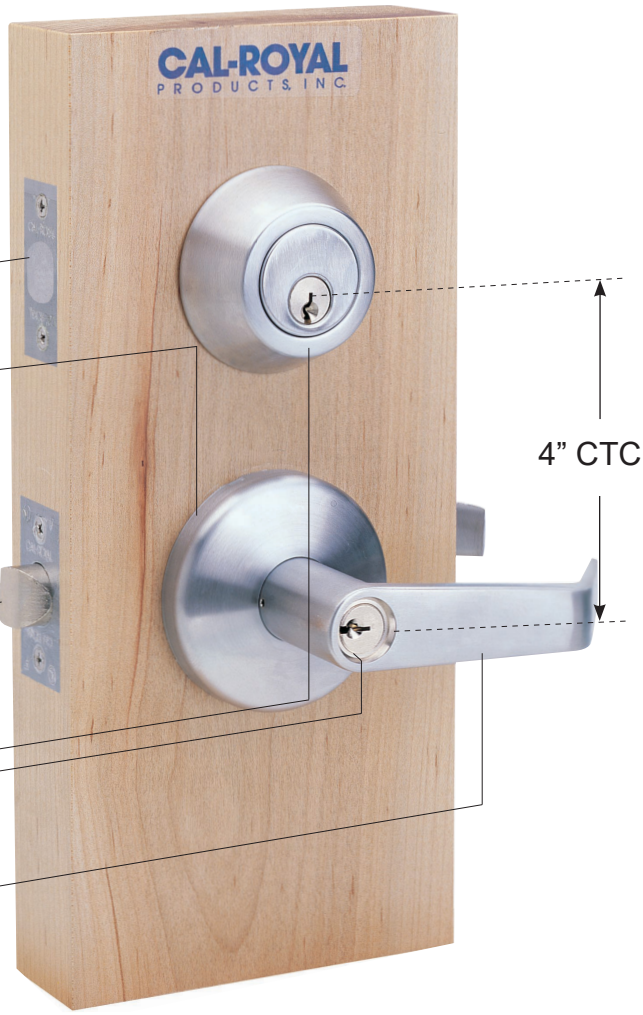
LIFETIME WARRANTY

MEETS
The Buy American Act

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI A156.12 Series 5000,
Grade 2, Exceeds 400,000 cycles

- 1" (25mm) Throw deadbolt with concealed hardened steel roller
- Unique individual spring on exterior and interior side of lever to prevent lever sag
- ½" (13mm) Throw universal deadlatch reversible RH / LH, adjustable front for flat or beveled doors. UL Listed 3 Hour Rated
- Precision solid brass 6-pin "C" keyway.
- Available with Small Format Interchangeable Core on deadbolt and lever
- Key removable diecast lever for quick re-keying or cylinder replacement





INTERIOR



OPTIONAL EXTERIOR ESCUTCHEON PLATE PART# HILESC-1



ASTOR HILAST DESIGN



Available with Interchangeable Core on deadbolt and lever.

DOVER HILRL DESIGN



Available with Interchangeable Core on deadbolt and lever.

MANHATTAN HILMAN DESIGN



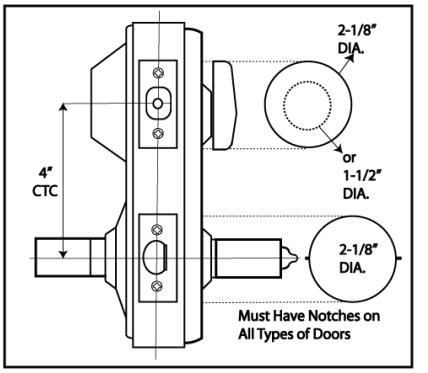
Available with Interchangeable Core on deadbolt and lever.

HIL SERIES FINISHES, FUNCTIONS AND SPECIFICATIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

DOOR PREPARATION



LIFETIME WARRANTY

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

SPECIFICATIONS

GENERAL SPECIFICATIONS: Simultaneous retraction on both latch and deadbolts from inside by turning the lever in a panic-proof exit situation. Top lock is heavy duty deadbolt with the bottom lock having a cylindrical body. High security with a double locking point using the keyed lock function.

ANSI STANDARDS: Meet ANSI A156.12 Series 5000 Grade 2 Requirements.

CYLINDER & KEYWAY: 6 pin solid brass "C" keyway, Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High security Cylinders.

SMALL FORMAT INTERCHANGEABLE CORE: Interchangeable Core Locks will accept compatible 6 or 7 pin cores with **BEST, FALCON & ARROW**. Prefix "**IC**" before part number. Available combinated or uncombinated. Temporary construction cores and factory keying with control key & master key available.

TRIM: HIL, ASTOR, DOVER and MANHATTAN designs. Refer to picture in front page. Lever length is 4 ¼".

STRIKES: Standard "T" strike furnished with lockset. 2 ¾" x 1 ⅛" square strike with deadbolt.

ESCUTCHEON: 2 $^{11}/_{16}$" x 7" brass plated. Packed with interior escutcheon. Optional external escutcheon available.

FUNCTIONS: Classroom, Storeroom and Dummy available upon request.

DEADBOLT: 1" Throw. **UL-Listed** Adjustable 2 ¾" or 2 ⅜" Brass with hardened steel pin. Standard 2 ¼" x 1" face plate, packed with plastic filler for 1 ⅛" door preparations.

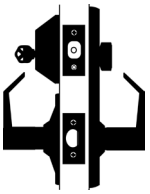
LATCH BOLT: ½" Throw. **UL-Listed** for 3 hour doors. 2 ¾" standard backset.

LATCH FACEPLATE: Standard 2 ¼" x 1 ⅛" for 2 ¾" backset. 2 ¼" x 1 " for 2 ⅜" backset optional.

DOOR RANGE: 1 ⅜" – 1 ¾" door thickness.

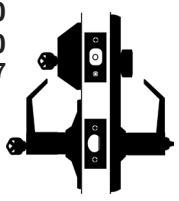
HOUSING: Steel and Zinc dichromate finish for rust resistance.

HIL30
ICHIL30
ANSI: F95



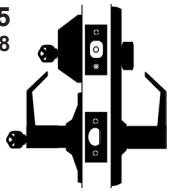
SINGLE LOCKING, ENTRANCE (PASSAGE LEVER)
Deadbolt thrown or retracted by key in upper lock from outside or by inside turn unit. Latch bolt retracted by lever from either side. Lever retracts deadbolt and latch bolt simultaneously for immediate exit.

HIL00
ICHIL00
ANSI: F97



DOUBLE LOCKING, ENTRANCE (ENTRANCE LEVER)
Deadbolt thrown or retracted by key in upper lock from outside or by inside turn unit. Dead latch retracted by key in outer when locked by pushing turn button in inner lever. Outer lever may be fixed in locked position by rotating turn button. Turning inside lever retracts deadbolt and latch bolt simultaneously for immediate exit.

HIL05
ANSI: F98



DOUBLE LOCKING, STOREROOM
Deadbolt thrown or retracted by key in upper lock from outside or by inside turn unit. Deadlocking latch bolt is operated by key in outside lever or by turning inside lever. Inside lever retracts deadbolt and latch bolt simultaneously for immediate exit. Outside lever is always fixed.

OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

Indicates **deadbolts** that are available with a Small Format Interchangeable Core. Interchangeable Core deadbolts will accept compatible 6 or 7 pin Core with Best, Falcon and Arrow. Prefix "**IC**" before part number.

Available with Small Format Interchangeable Core on **deadbolt and lever**.

HOW TO ORDER:
When ordering HIL AST design, replace design name.
Example:
HIL00 in AST is HILAST00

JHIL SERIES

INTERCONNECTED LOCKS

OPTIONAL 4" or 5 ½" CTC BORE

ANSI A156.12 GRADE 2

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

LIFETIME WARRANTY

MEETS *The Buy American Act*

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI A156.12 Series 5000, Grade 2 Exceeds 400,000 cycles

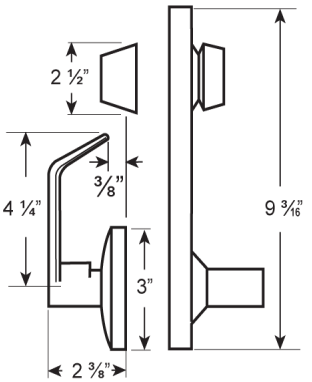


1" (25mm) Throw. UL Listed Adjustable 2 ⅜" or 2 ¾" deadbolt latch with concealed hardened steel roller

Standard 2 ¼" x 1". Packed with plastic filler to convert 1" face plate to 1 ⅛" wide door preparations

½" (13mm) Throw universal deadlatch reversible RH / LH, adjustable front for flat or beveled doors. UL Listed 3 Hour Rated

4" or 5 ½" CTC



Unique individual spring on exterior and interior side of lever to prevent lever sag

Precision solid brass 6-pin "C" keyway.

Available with Small Format Interchangeable Core on deadbolt and lever

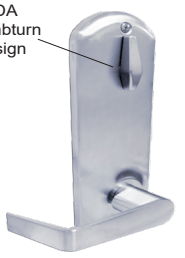
OPTIONAL INDICATOR DEADBOLT INTERCONNECTED LOCK

IND-JHIL DESIGN



INTERIOR

ADA Thumbturn Design



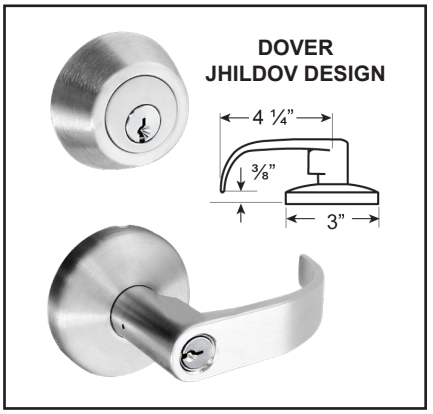
Interconnecting mechanism
Optional CTC 4" and 5 ½"

OPTIONAL EXTERIOR ESCUTCHEON PLATE PART# HILESC-1

(Available for 4" CTC only)



DOVER JHILDOV DESIGN



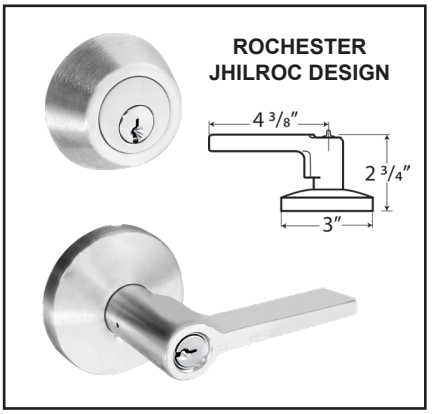
Available with Interchangeable Core on deadbolt and lever.
Available with Schlage Large Format Interchangeable Core on deadbolt only.

MANHATTAN JHILMAN DESIGN



Available with Interchangeable Core on deadbolt and lever.
Available with Schlage Large Format Interchangeable Core on deadbolt only.

ROCHESTER JHILROC DESIGN



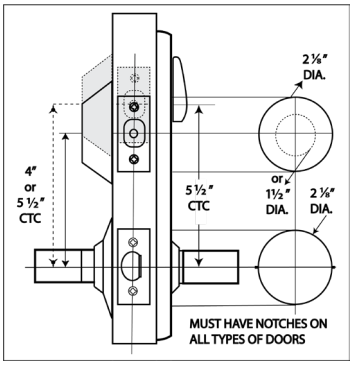
Available with Interchangeable Core on deadbolt and lever.
Available with Schlage Large Format Interchangeable Core on deadbolt only.

JHIL SERIES FINISHES, FUNCTIONS AND SPECIFICATIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
622	US1	Flat Black Coated
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

DOOR PREPARATION



LIFETIME WARRANTY

c UL us
3 HOUR FIRE RATED UL10C, UBC7-2-1997

SPECIFICATIONS

GENERAL SPECIFICATIONS: Simultaneous retraction on both latch and deadbolts from inside by turning the lever in a panic-proof exit situation. Top lock is heavy duty deadbolt with the bottom lock having a cylindrical body. High security with a double locking point using the keyed lock function.

ANSI STANDARDS: Meets ANSI A156.12, Series 5000, Grade 2 Requirements.

CYLINDER & KEYWAY: 6 pin solid brass "C" keyway, Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High security Cylinders.

SMALL FORMAT INTERCHANGEABLE CORE: Interchangeable Core Locks will accept compatible 6 or 7 pin cores with **BEST, FALCON & ARROW**. Prefix "**IC**" before part number. Available combinated or uncombinated. Temporary construction cores and factory keying with control key & master key available.

LARGE FORMAT INTERCHANGEABLE CORE: Interchangeable Core Locks for **SCHLAGE**. Prefix "**ICSC**" before part number, on deadbolt only.

HOUSING: Steel and Zinc dichromate finish for rust resistance.

STRIKES: Standard "T" strike furnished with lockset. 2 ¾" x 1 ⅛" square strike with deadbolt.

ESCUTCHEON: 9 3/16" x 3 3/16" brass plated. Packed with interior escutcheon. Optional external escutcheon available.

FUNCTIONS: Entrance (Double Locking), Classroom, Storeroom and Dummy available upon request.

DEADBOLT: 1" Throw. **UL-Listed** Adjustable 2 ¾" or 2 ⅜" Brass with hardened steel pin. Standard 2 ¼" x 1" face plate, packed with plastic filler for 1 ⅛" door preparations.

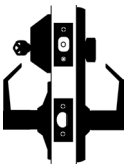
LATCH BOLT: ½" Throw. **UL-Listed** for 3 hour doors. 2 ¾" standard backset with 2 ⅜" optional.

LATCH FACEPLATE: Standard 2 ¼" x 1" face plate, packed with plastic filler for 1 ⅛" door preparations.

DOOR RANGE: 1 ⅜" – 1 ¾"

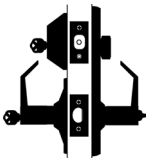
TRIM: JHIL, DOVER, MANHATTAN and ROCHESTER designs. Refer to picture in front page. Lever length is 4 ¼".

JHIL30
ICJHIL30
ICSCJHIL30
ANSI: F95



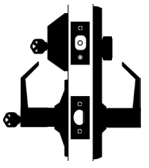
SINGLE LOCKING, ENTRANCE (PASSAGE LEVER)
Deadbolt thrown or retracted by key in upper lock from outside or by inside turn unit. Latch bolt is retracted by lever from either side. Lever retracts deadbolt and latch bolt simultaneously for immediate exit.

JHIL00
ICJHIL00
ANSI: F97



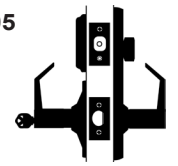
DOUBLE LOCKING, ENTRANCE (ENTRANCE LEVER)
Deadbolt thrown or retracted by key in upper lock from outside or by inside turn unit. Dead latch retracted by key in outer when locked by pushing turn button in inner lever. Outer lever may be fixed in locked position by rotating turn button. Turning inside lever retracts deadbolt and latch bolt simultaneously for immediate exit.

JHIL05
ANSI: F98



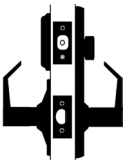
DOUBLE LOCKING, STOREROOM
Deadbolt thrown or retracted by key in upper lock from outside or by Thumbturn inside. Deadlocking latch bolt is operated by key in outside lever or by turning inside lever. Inside lever retracts deadbolt and latchbolt simultaneously for immediate exit. Outside lever is always fixed.

IND-JHIL05



INDICATOR DEADBOLT, STOREROOM LEVER
Deadbolt thrown or retracted by emergency key in upper lock from outside or by thumbturn inside. Deadlocking latch bolt is operated by key outside or by turning inside lever. Inside lever retracts deadbolt and latch bolt simultaneously for immediate exit. Outside lever is always fixed.

IND-JHIL30



INDICATOR DEADBOLT, PASSAGE LEVER
Deadbolt thrown or retracted by emergency key in upper lock from outside or by thumbturn inside. Latch bolt is retracted by lever from either side. Lever retracts deadbolt and latch bolt simultaneously for immediate exit.

HOW TO ORDER:
When ordering JHIL DOV design, replace design name.
Example: JHIL00 in DOV is JHILDOV00

OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

- Indicates **deadbolts** that are available with a Small Format Interchangeable Core. Interchangeable Core deadbolts will accept compatible 6 or 7 pin Core with **Best, Falcon and Arrow**. Prefix "**IC**" before part number.
- Indicates **deadbolts** that are available with Large Format Interchangeable Core. Large Format Interchangeable Core deadbolts for **Schlage**. Prefix "**ICSC**" before part number.

CIL SERIES

CONTEMPORARY INTERCONNECTED LOCKS

OPTIONAL 4” or 5 ½” CTC BORE

ANSI A156.12 GRADE 2

c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997

LIFETIME WARRANTY

MEETS *The Buy American Act*

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI A156.12 Series 5000, Grade 2
Exceeds 400,000 cycles

1” (25mm) Throw. Adjustable 2 ⅜” - 2 ¾” deadbolt latch with concealed hardened steel roller

Standard 2 ¼” x 1”. Packed with plastic filler to convert 1” face plate to 1 ⅛” wide door preparations

½” (13mm) Throw universal deadlatch reversible RH / LH, adjustable front for flat or beveled doors. UL Listed 3 Hour Rated

Precision solid brass 6-pin “C” keyway.
Available with SFIC on deadbolt and lever, or
SFIC or LFIC on deadbolt only

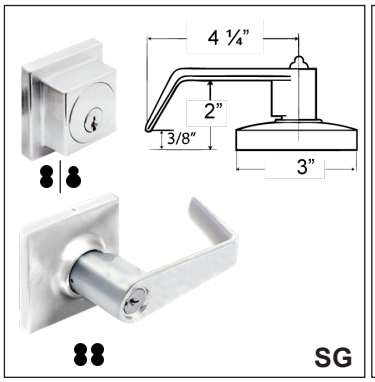


Unique individual spring on exterior and interior side of lever to prevent lever sag

INTERIOR



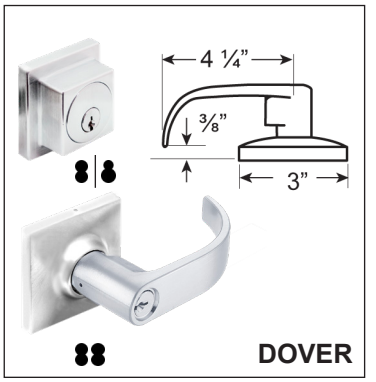
Interconnecting mechanism
Optional CTC 4” and 5 ½”



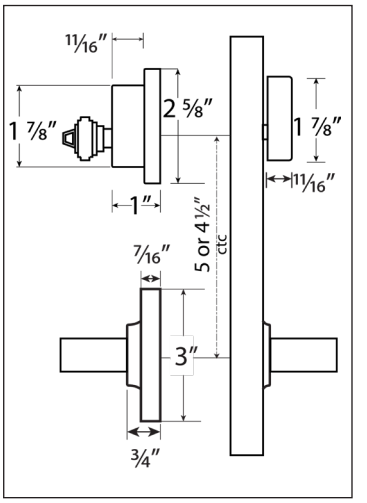
SG

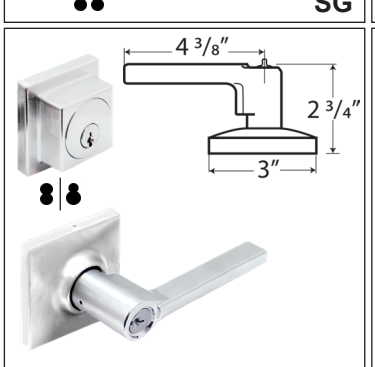


MANHATTAN

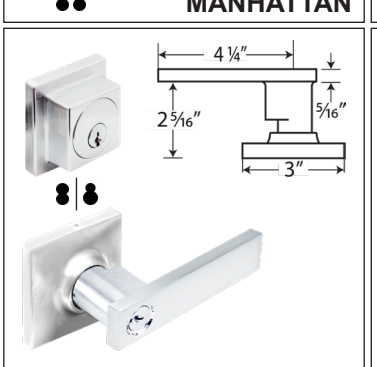


DOVER

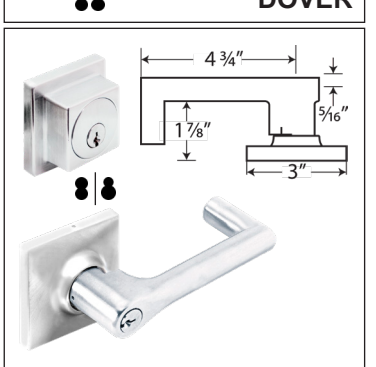




ROCHESTER



HOLLAND



VENICE

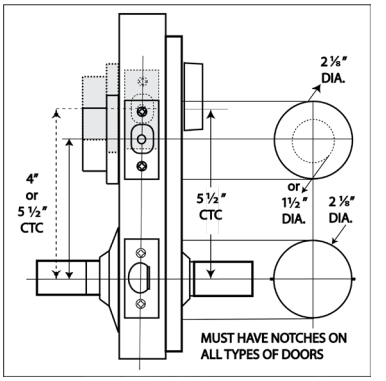
IC CORE OPTIONS	
	Available with **SFIC** on deadbolt only
	Available with **SFIC** on deadbolt and lever
	Available with Schlage **LFIC** on deadbolt only

CIL SERIES FINISHES, FUNCTIONS AND SPECIFICATIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
622	US1	Flat Black Coated
605	US3	Polished Brass
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

DOOR PREPARATION



LIFETIME WARRANTY

3 HOUR FIRE RATED
UL10C, UBC7-2-1997

SPECIFICATIONS

GENERAL SPECIFICATIONS: Simultaneous retraction on both latch and deadbolts from inside by turning the lever in a panic-proof exit situation. Top lock is heavy duty deadbolt with the bottom lock having a cylindrical body. High security with a double locking point using the keyed lock function.

ANSI STANDARDS: Meet ANSI A156.12 Series 5000 Grade 2 Requirements.

CYLINDER & KEYWAY: 6-pin solid brass "C" keyway, Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High security Cylinders.

SMALL FORMAT INTERCHANGEABLE CORE: Interchangeable Core Locks will accept compatible 6 or 7 pin cores with **BEST, FALCON & ARROW**. Prefix "**IC**" before part number. Available combinated or uncombinated. Temporary construction cores and factory keying with control key & master key available.

LARGE FORMAT INTERCHANGEABLE CORE: Interchangeable Core Locks for **SCHLAGE**. Prefix "**ICSC**" before part number, on deadbolt only.

HOUSING: Steel and Zinc dichromate finish for rust resistance.

STRIKES: Standard "T" strike furnished with lockset. 2 ¾" x 1 ⅛" square strike with deadbolt.

ESCUTCHEON: 9 9/16" x 3 ⅛" brass plated. Packed with interior escutcheon. Optional external escutcheon available.

FUNCTIONS: Entrance (Double Locking), Classroom, Storeroom and Dummy available upon request.

DEADBOLT: 1" Throw. **UL-Listed** Adjustable 2 ¾" or 2 ⅜" Brass with hardened steel pin. Standard 2 ¼" x 1" face plate, packed with ⅛" plastic filler for 1 ⅛" door prearations..

LATCH BOLT: ½" Throw. **UL-Listed** for 3 hour doors. 2 ¾" standard backset with 2 ⅜" optional.

LATCH FACEPLATE: Standard 2 ¼" x 1" face plate, packed with ⅛" plastic filler for 1 ⅛" door preparations.

DOOR RANGE: 1 ⅜" – 1 ¾" door thickness

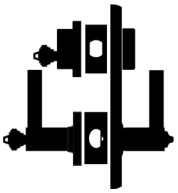
TRIM: SG, DOVER, MANHATTAN, ROCHESTER, HOLLAND and VENICE designs. Refer to picture in front page.

CILSG30
ICCILSG30
ICSCCILSG30
ANSI: F95



SINGLE LOCKING, ENTRANCE (PASSAGE LEVER)
Deadbolt thrown or retracted by key in upper lock from outside or by inside turn unit. Latch bolt retracted by lever from either side. Lever retracts deadbolt and latch bolt simultaneously for immediate exit.

CILSG00
ICCILSG00
ANSI: F97



DOUBLE LOCKING, ENTRANCE (ENTRANCE LEVER)
Deadbolt thrown or retracted by key in upper lock from outside or by inside turn unit. Dead latch retracted by key in outer when locked by pushing turn button in inner lever. Outer lever may be fixed in locked position by rotating turn button. Turning inside lever retracts deadbolt and latch bolt simultaneously for immediate exit.

HOW TO ORDER:

For **"DOV", "MAN", "ROC", "HOL", "VEN"** designs, replace **"SG"** with design name.

Example: **CILSG00 US26D** in **DOV** design is **CILDOV00 US26D**

- Available with Small Format Interchangeable Core on **Deadbolt** only (Lever Passage)
- Available with Large Format Interchangeable Core on **Deadbolt** only (Lever Passage)
- Available with Small Format Interchangeable Core on **Deadbolt and Lever** (Entrance)

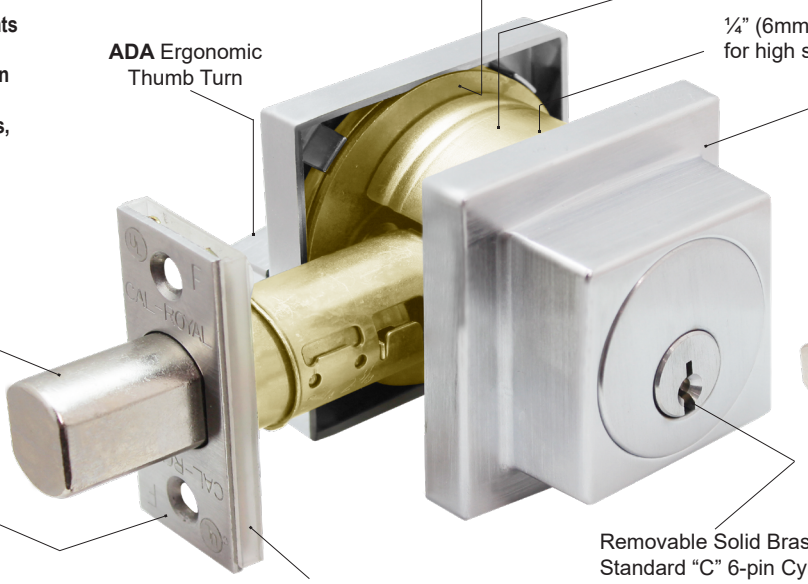
SQ300 SERIES
CONTEMPORARY SQUARE HEAVY DUTY DEADBOLTS
FOR COMMERCIAL AND RESIDENTIAL APPLICATIONS
ANSI A156.36, GRADE 2

c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997

LIFETIME WARRANTY

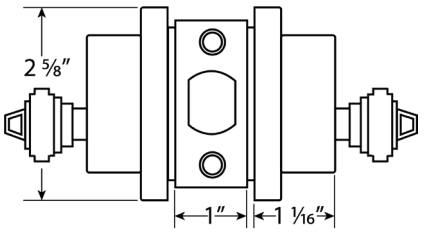
MEETS *The Buy American Act*

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with BHMA / ANSI A156.36, Grade 2 Requirements, Exceeds 150,000 Cycles

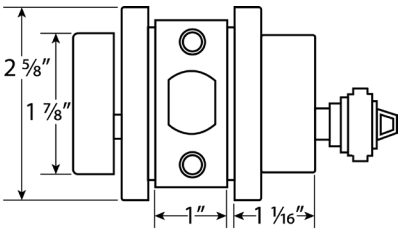




INTERIOR FOR SINGLE CYLINDER



SQ-330 DOUBLE CYLINDER



SQ-220 SINGLE CYLINDER

SPECIFICATIONS

TRIM
Wrought Brass or Zinc

DOOR RANGES
Adjustable 1 ⅜" (35mm) to 1 ¾" (45mm) door thickness.

BACKSET
Adjustable UL Listed 3 Hour Fire Rating
2 ⅜" or 2 ¾" latch bolt.

DEADBOLT FACEPLATE
Standard 2 ¼" x 1" packed with ⅛" plastic filler to convert 1" face plate to 1 ⅛" wide door preparations.

BORE DIAMETER
1" for latch, 2 ⅛" for lock housing.

STRIKE
1 ⅛" x 2 ¾" Square Corner. Extra security 1" throw bolt with ¼" free spinning anti-cut through pin. 2 pcs x 3" screws with wood frame reinforcer greatly strengthens door frames.

KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

INTERCHANGEABLE CORE
- Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW and
- Schlage Large Format Interchangeable Core.

SQ300 SERIES FINISHES AND FUNCTIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
---	US1	Black
606	US4	Satin Brass
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
626	US26D	Satin Chrome

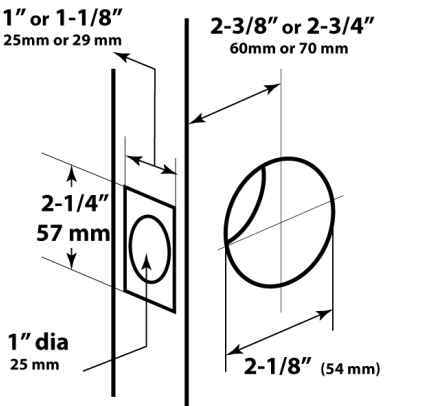
Refer to price list for stock finishes and functions

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

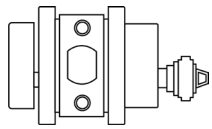
LIFETIME WARRANTY

MEETS
The Buy American Act

DOOR PREPARATIONS

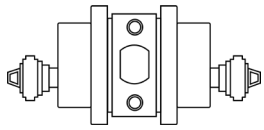


- **SQ-220**
- **ICSQ-220**
- **ICSCSQ-220**
  ANSI E0152



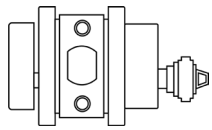
Heavy Duty Single Cylinder Deadbolt
Deadbolt thrown or retracted by key from outside or by inside turn unit. Bolt automatically deadlocks when fully thrown.

- **SQ-330**
- **ICSQ-330**
- **ICSCSQ-330**
  ANSI E0142



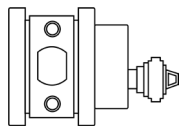
Heavy Duty Double Cylinder Deadbolt
Deadbolt thrown or retracted by key from either side.
Bolt automatically deadlocks when fully thrown.

- **SQ-600**
- **ICSQ-600**
- **ICSCSQ-600**
  ANSI E0172



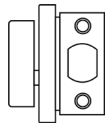
Classroom Deadbolt Lock
Deadbolt thrown or retracted by key from outside.
Inside turn unit will retract bolt only.
Bolt automatically deadlocks when fully thrown.

- **SQ-700**
- **ICSQ-700**
- **ICSCSQ-700**
  ANSI E1161



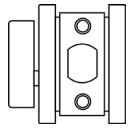
One Way Dead Bolt WITH INTERNAL PLATE
Deadbolt thrown or retracted by key only.
Bolt automatically deadlocks when fully thrown.
Blank plate inside (exposed screws).

- **SQ-363**



One Sided Dead Bolt
Deadbolt thrown or retracted by turn unit only.
No outside trim. Bore halfway through door for installation visible from one side of door only.

- **SQ-365**



One Sided Dead Bolt WITH EXTERNAL PLATE
Deadbolt thrown or retracted by turn unit only.
Blank plate is on external trim to be used on bore holes 2 ⅛" wide.

OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

- **"IC"** Indicates functions available with Interchangeable Core compatible with 6 or 7-Pin cores by Best, Falcon and Arrow.
- **"ICSC"** Indicates deadbolts that are available with Schlage Large Format Interchangeable Core

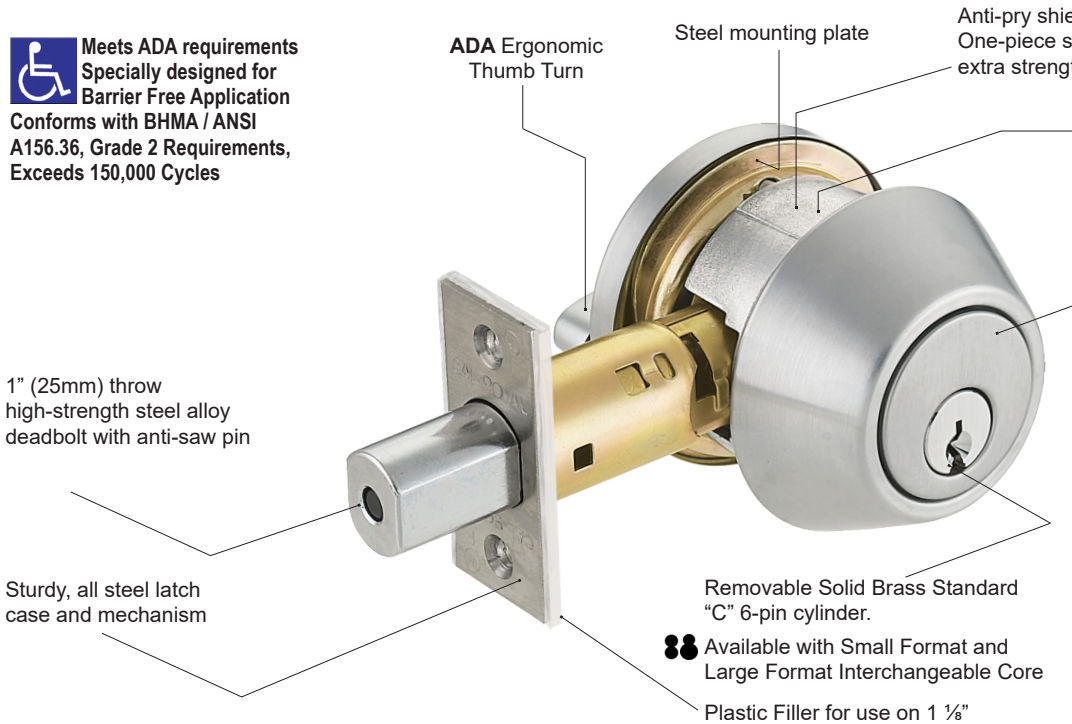
T300 MAXIMUM SECURITY HEAVY DUTY DEADBOLTS FOR COMMERCIAL AND RESIDENTIAL APPLICATIONS

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

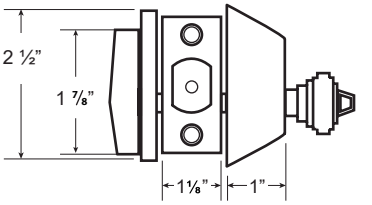
LIFETIME WARRANTY

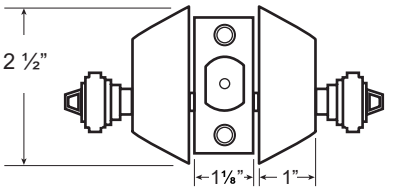
MEETS
The Buy American Act

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with BHMA / ANSI A156.36, Grade 2 Requirements, Exceeds 150,000 Cycles



T360 SERIES SINGLE CYLINDER





T362 SERIES DOUBLE CYLINDER



HURRICANE APPROVED HARDWARE
FLORIDA BUILDING CODE
FL13922-R7
ASTM E1886/E1996
ASTM E330
TAS 201, 202, 203
UL10B & UL10C

HURRICANE APPROVED HARDWARE
TEXAS EVALUATION ID
DR-472
ASTM E1886/E1996
ASTM E330
TAS 201, 202, 203

CONFIGURATION	MAX FRAME DIMENSIONS	DESIGN PRESSURE (PSF)			
		INSWING		OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
SINGLE	40" x 88"	+55.0	-55.0	+80.0	-80.0
SINGLE	52" x 98"	N/A	N/A	+80.0	-80.0
DOUBLE	76" x 88"	+55.0	-55.0	+55.0	-55.0

SPECIFICATIONS

TRIM
Wrought Brass or Stainless Steel.

DOOR RANGES
Adjustable 1 ⅜" (35mm) to 1 ¾" (45mm) door thickness. Optional 2 ¼" thick doors. Specify conversion kit for single (CONV T360) or double (CONV T362) Cylinder.

BACKSET
Adjustable UL Listed 3 Hour Fire Rating 2 ⅜" or 2 ¾" latch bolt.

DEADBOLT FACEPLATE
Standard 2 ¼" X 1" packed with ⅛" plastic filler to convert 1" face plate to 1 ⅛" wide door preparations.

BORE DIAMETER
1" for latch, 2 ⅛" for lock housing.

STRIKE
1 ⅛" x 2 ¾" square corner. Extra security 1" throw bolt with ¼" free spinning anti-cut through pin. 2 pcs x 3" screws with wood frame reinforcer greatly strengthens door frames.

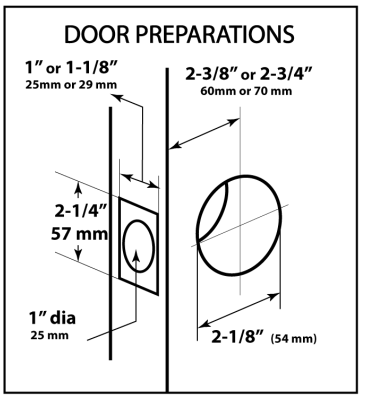
KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

INTERCHANGEABLE CORE
- Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW.
- Interchangeable Core locks will also accept SCHLAGE full size Large format OEM interchangeable core cylinders and compatible Schlage 6-pin Interchangeable Core. Interchangeable Core offered by Cal-Royal Products, Inc.

T300 SERIES FINISHES AND FUNCTIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
622	US1	Flat Black Coated
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome
630	US32D	Satin Stainless Steel

Refer to price list for stock finishes and functions



LIFETIME WARRANTY

HURRICANE APPROVED HARDWARE
FLORIDA BUILDING CODE
FL13922-R7
ASTM E1886/E1996
ASTM E330
TAS 201, 202, 203
UL10B & UL10C

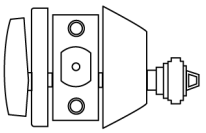
HURRICANE APPROVED HARDWARE
TEXAS EVALUATION ID
DR-472
ASTM E1886/E1996
ASTM E330
TAS 201, 202, 203

CONFIGURATION	MAX FRAME DIMENSIONS	DESIGN PRESSURE (PSF)			
		INSWING		OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
SINGLE	40" x 88"	+55.0	-55.0	+80.0	-80.0
SINGLE	52" x 98"	N/A	N/A	+80.0	-80.0
DOUBLE	76" x 88"	+55.0	-55.0	+55.0	-55.0

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

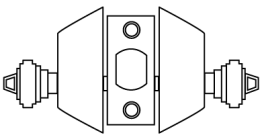
MEETS
The Buy American Act

ULT360
ICULT360
SCICULT360
ANSI E0152



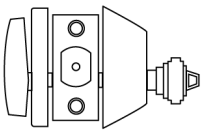
Heavy Duty Single Cylinder Deadbolt
Deadbolt thrown or retracted by key from outside or by inside turn unit. Bolt automatically deadlocks when fully thrown.

ULT362
ICULT362
ANSI E0142



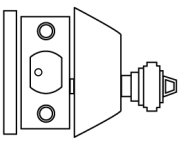
Heavy Duty Double Cylinder Deadbolt
Deadbolt thrown or retracted by key from either side. Bolt automatically deadlocks when fully thrown.

CL600
ICCL600
ANSI E0172



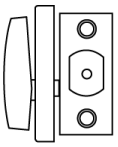
Classroom Deadbolt Lock
Deadbolt thrown or retracted by key from outside. Inside turn unit will retract bolt only. Bolt automatically deadlocks when fully thrown.
(fixed 2 ¾" latch bolt standard; specify 2 ⅜" backset option)

ULT700
ICULT700
ANSI E1161



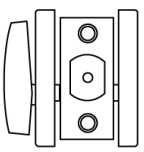
One Way Dead Bolt WITH INTERNAL PLATE
Deadbolt thrown or retracted by key only. Bolt automatically deadlocks when fully thrown. Blank plate inside (exposed screws).

ULID363



One Sided Dead Bolt
Deadbolt thrown or retracted by turn unit only. No outside trim. Bore halfway through door for installation visible from one side of door only.

ULID365



One Sided Dead Bolt WITH EXTERNAL PLATE
Deadbolt thrown or retracted by turn unit only. Blank plate is on external trim to be used on bore holes 2 ⅛" wide.

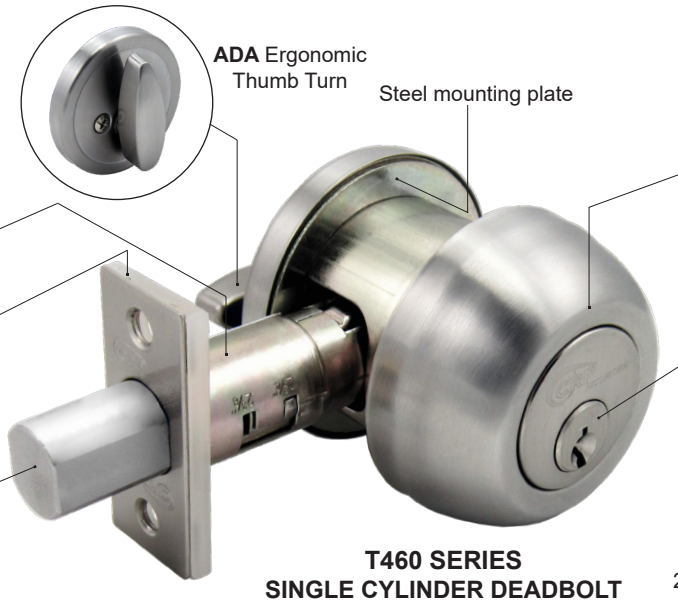
OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

- "IC" Indicates functions available with Interchangeable Core compatible with 6 or 7-Pin cores by Best, Falcon and Arrow.
- "SCIC" Indicates functions available with Schlage Full Size Large Format Interchangeable Core.

T400 MAXIMUM SECURITY HEAVY DUTY DEADBOLTS
FOR COMMERCIAL AND RESIDENTIAL APPLICATIONS
GRADE 2

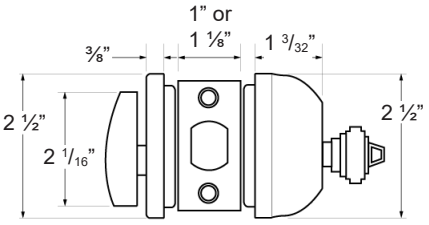
LIFETIME WARRANTY

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with BHMA / ANSI A156.36, Grade 2 Requirements, Exceeds 150,000 Cycles



T460 SERIES
SINGLE CYLINDER DEADBOLT

T460 DEADBOLT



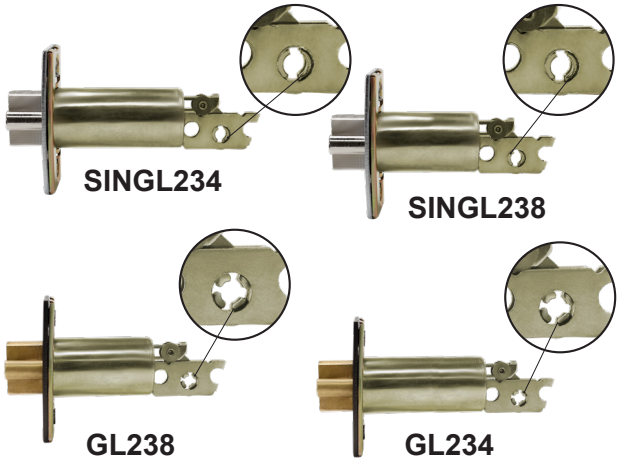
GL460 GATE LATCH SINGLE CYLINDER



GL462 GATE LATCH DOUBLE CYLINDER



SINGL238 - 2 ⅜" backset gate latch and for single cylinder deadbolt
SINGL234 - 2 ¾" backset gate latch and for single cylinder deadbolt
GL238 – 2 ⅜" backset gate latch and for double cylinder deadbolt
GL234 – 2 ¾" backset gate latch and for double cylinder deadbolt



SPECIFICATIONS

TRIM
Wrought Brass or Stainless Steel.

DOOR RANGES
Adjustable 1 ⅜" (35mm) to 2" (50.75mm) door thickness.

BACKSET
Adjustable 2 ⅜" or 2 ¾" latch bolt. Gate latch available in 2 ⅜" and 2 ¾".

DEADBOLT FACEPLATE
Latch bolt: Standard 2 ¼" x 1" packed with ⅛" plastic filler to convert 1" face plate to 1 ⅛" wide door preparations. Gate latch: 2 ¼" x 1⅛" face plate for both 2 ⅜" and 2 ¾".

BORE DIAMETER
1" for latch, 2 ⅛" or 1 ½" for lock housing.

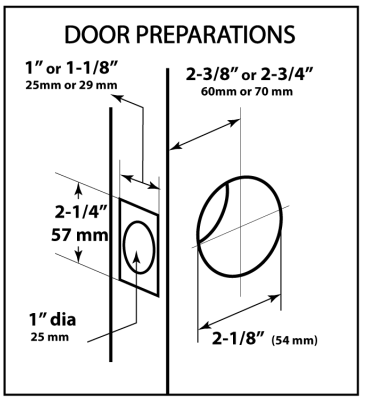
STRIKE
1 ⅛" x 2 ¾" square corner. Extra security 1" throw bolt . 3" screws with wood frame reinforcer greatly strengthens door frames.

KEYWAYS
Optional 6-pin solid brass "C" or 5-pin Kwikset KW1 keyways standard. Schlage E,Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8 and Yale GA. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

T400 SERIES FINISHES AND FUNCTIONS

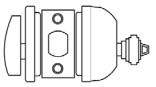
FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome
---	US11P	(VB) Venetian Bronze

Refer to price list for stock finishes and functions



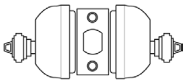
LIFETIME WARRANTY

T460
ANSI E152



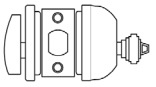
Heavy Duty Single Cylinder Deadbolt
(6 pin "C" Keyway Cylinder)
Deadbolt thrown or retracted by key from outside or by inside turn unit. Bolt automatically deadlocks when fully thrown.

T462
ANSI E0142



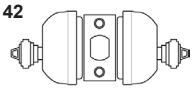
Heavy Duty Double Cylinder Deadbolt
(6 pin "C" Keyway Cylinder)
Deadbolt thrown or retracted by key from either side. Bolt automatically deadlocks when fully thrown.

KWT460
ANSI E0152



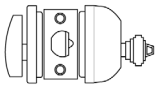
Heavy Duty Single Cylinder Deadbolt
(5 pin Kwikset KW1 Cylinder)
Deadbolt thrown or retracted by key from outside or by inside turn unit. Bolt automatically deadlocks when fully thrown.

KWT462
ANSI E0142



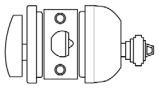
Heavy Duty Double Cylinder Deadbolt
(5 pin Kwikset KW1 Cylinder)
Deadbolt thrown or retracted by key from either side. Bolt automatically deadlocks when fully thrown.

GL460
ANSI E0152

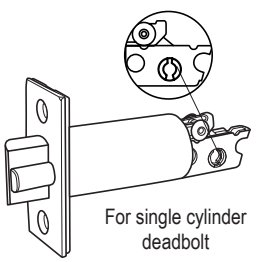


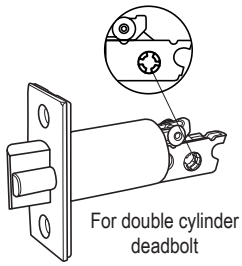
Heavy Duty Single Cylinder Gate Latch
(6 pin "C" Keyway Cylinder)
2 ⅜" Backset
Gate Latch thrown or retracted by key from outside or by inside turn unit. Latch automatically deadlocks when fully thrown.

GL460 / 234
ANSI E0152

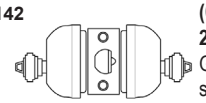


Heavy Duty Single Cylinder Gate Latch
(6 pin "C" Keyway Cylinder)
2 ¾" Backset
Gate Latch thrown or retracted by key from outside or by inside turn unit. Latch automatically deadlocks when fully thrown.



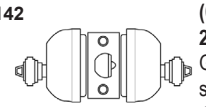


GL462
ANSI E0142



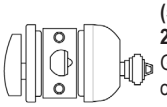
Heavy Duty Double Cylinder Gate Latch
(6 pin "C" Keyway Cylinder)
2 ⅜" Backset
Gate Latch thrown or retracted by key from either side. Latch automatically deadlocks when fully thrown.

GL462 / 234
ANSI E0142



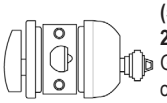
Heavy Duty Double Cylinder Gate Latch
(6 pin "C" Keyway Cylinder)
2 ¾" Backset
Gate Latch thrown or retracted by key from either side. Latch automatically deadlocks when fully thrown.

GLKW460
ANSI E0152



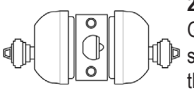
Heavy Duty Single Cylinder Gate Latch
(5 pin Kwikset KW1 Cylinder)
2 ⅜" Backset
Gate Latch thrown or retracted by key from outside or by inside turn unit. Latch automatically deadlocks when fully thrown.

GLKW460 / 234
ANSI E0152



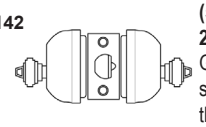
Heavy Duty Single Cylinder Gate Latch
(5 pin Kwikset KW1 Cylinder)
2 ¾" Backset
Gate Latch thrown or retracted by key from outside or by inside turn unit. Latch automatically deadlocks when fully thrown.

GLKW462
ANSI E0142



Heavy Duty Double Cylinder Gate Latch
(5 pin Kwikset KW1 Cylinder)
2 ⅜" Backset
Gate Latch thrown or retracted by key from either side. Latch automatically deadlocks when fully thrown.

GLKW462 / 234
ANSI E0142



Heavy Duty Double Cylinder Gate Latch
(5 pin Kwikset KW1 Cylinder)
2 ¾" Backset
Gate Latch thrown or retracted by key from either side. Latch automatically deadlocks when fully thrown.

ADDITIONAL PARTS	
SINGL238	2 ⅜" backset gate latch (1 ⅛" x 2 ¼") for single cylinder deadbolt
SINGL234	2 ¾" backset gate latch (1 ⅛" x 2 ¼") for single cylinder deadbolt
GL238	2 ⅜" backset gate latch (1 ⅛" x 2 ¼") for double cylinder deadbolt
GL234	2 ¾" backset gate latch (1 ⅛" x 2 ¼") for double cylinder deadbolt

OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

CB160 STANDARD DUTY DEADBOLTS
GL160 STANDARD DUTY GATE LATCHES
FOR STANDARD COMMERCIAL AND RESIDENTIAL APPLICATIONS

LIFETIME WARRANTY

Conforms with ANSI A156.36 , Grade 2
Exceeds 150,000 cycles



ADA Ergonomic thumb turn

Latch front adapter to convert 1" face plate to 1 ⅛" wide door preparations

2 ⅝" diameter Adapter Ring for 2 ⅛" door preparations

2" diameter tampered cylinder guard and metal insert, turns free with any removal attempt

Adjustable 2 ⅜" – 2 ¾" Deadbolt

Removable Solid Brass Standard "C" 6-pin cylinder



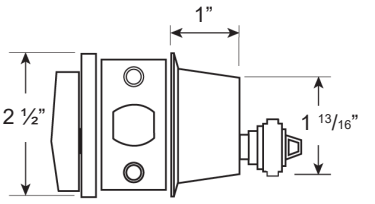
Sturdy, all steel latch case and mechanism

Cast steel housing



PART# **SMTT-160**
2" diameter Optional Small Thumbturn for 1 ½" door preparations

CB160
SINGLE CYLINDER



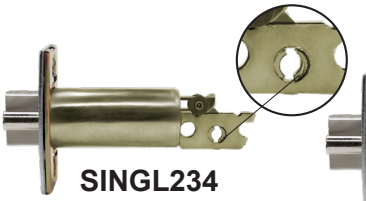
GL162 GATE LATCH DOUBLE CYLINDER



GL160 GATE LATCH SINGLE CYLINDER



SINGL238 - 2 ⅜" backset gate latch and for single cylinder deadbolt
SINGL234 - 2 ¾" backset gate latch and for single cylinder deadbolt
GL238 – 2 ⅜" backset gate latch and for double cylinder deadbolt
GL234 – 2 ¾" backset gate latch and for double cylinder deadbolt



SINGL234



SINGL238



GL238



GL234

SPECIFICATIONS

TRIM
Wrought Brass or Stainless Steel.

DOOR RANGES
Adjustable 1 ⅜" (35mm) to 1 ¾" (45mm) door thickness.

BACKSET
Adjustable 2 ⅜" or 2 ¾".

DEADBOLT FACEPLATE
Latch bolt: Standard 2 ¼" x 1" packed with ⅛" plastic filler to convert 1" face plate to 1 ⅛" wide door preparations.

BORE DIAMETER
1" for latch, 1 ½" or 2 ⅛" for lock housing.

STRIKE
1 ⅛" x 2 ¾" square corner.

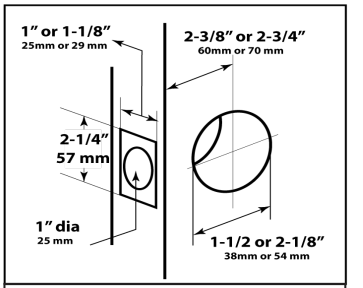
KEYWAYS
Standard 6-pin solid brass "C" keyway. Optional Schlage C-K composite with "E" keys, Schlage "E", Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Kwikset, Arrow A, Yale GA and Yale 8.

CB160 SERIES FINISHES AND FUNCTIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

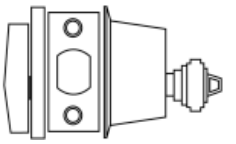
DOOR PREPARATION



Bore halfway through door only for doors with no external trim.

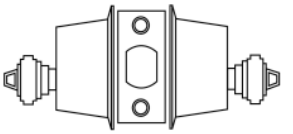
LIFETIME WARRANTY

CB160
ANSI E0152



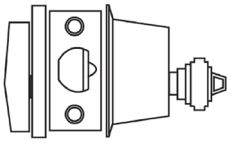
Standard Duty Single Cylinder Deadbolt
Deadbolt thrown or retracted by key from outside or by inside turn unit. Bolt automatically deadlocks when fully thrown.

CB162
ANSI E0142



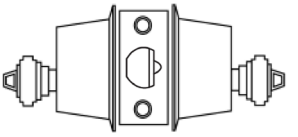
Standard Duty Double Cylinder Deadbolt
Deadbolt thrown or retracted by key from either side. Bolt automatically deadlocks when fully thrown.

GL160
ANSI E0152



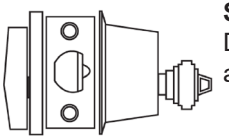
Single Cylinder Gate Latch (2 ⅜" backset)
Dead locking latch bolt retracted by key from outside and thumb turn on inside. Otherwise always locked.

GL162
ANSI E0142



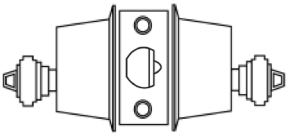
Double Cylinder Gate Latch (2 ⅜" backset)
Dead locking latch bolt retracted by key from either side. Otherwise always locked.

GL160 / 234
ANSI E0152

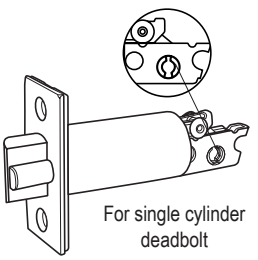


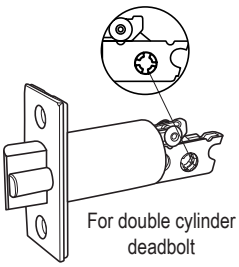
Single Cylinder Gate Latch (2 ¾" backset)
Dead locking latch bolt retracted by key from outside and thumb turn on inside. Otherwise always locked.

GL162234
ANSI E0142



Double Cylinder Gate Latch (2 ¾" backset)
Dead locking latch bolt retracted by key from either side. Otherwise always locked.





ADDITIONAL PARTS	
SINGL238	2 ⅜" backset gate latch (1 ⅛" x 2 ¼") for single cylinder deadbolt
SINGL234	2 ¾" backset gate latch (1 ⅛" x 2 ¼") for single cylinder deadbolt
GL238	2 ⅜" backset gate latch (1 ⅛" x 2 ¼") for double cylinder deadbolt
GL234	2 ¾" backset gate latch (1 ⅛" x 2 ¼") for double cylinder deadbolt

OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

HOLD BACK FEATURE ON DEADBOLT WITH GATE LATCH NOT AVAILABLE

IND90-G2 ANSI GRADE 2 INDICATOR DEADBOLTS

FOR COMMERCIAL APPLICATIONS

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

MEETS
The Buy American Act

Conforms with ANSI A156.36, Grade 2
Exceeds 150,000 cycles



ADA Ergonomic thumbturn

Sturdy, all steel latch case and mechanism



Throw 1" (25mm) Solid Brass with Anti-Saw Pin

2 ⅜" or 2 ¾" Adjustable Deadbolt

Latch front adapter to convert 1" face plate to 1 ⅛" wide door preparations

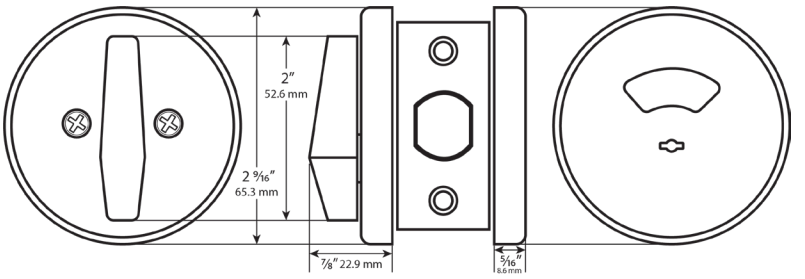
2 $^{9}/_{16}$" Diameter Brass Plate

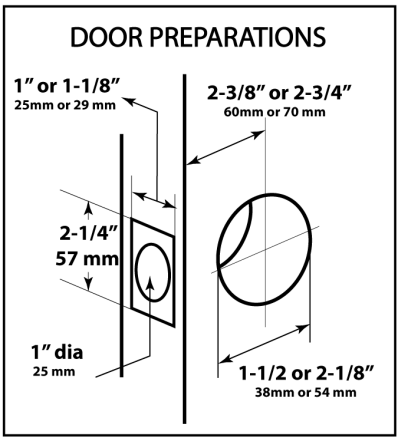


Emergency Key



Red (IN USE) and Green (VACANT) Indicator





SPECIFICATIONS

TRIM
Wrought Brass or Stainless Steel.

DOOR RANGES
Adjustable 1 ⅜" (35mm) to 1 ¾" (45mm) door thickness.

BACKSET
Adjustable UL Listed 3 Hour Fire Rated 2 ⅜" or 2 ¾".

DEADBOLT FACEPLATE
Standard 2 ¼" x 1" packed with 1 ⅛" plastic filler to convert 1" face plate to 1 ⅛" wide door preparations.

BORE DIAMETER
1" for latch, 1 ½" or 2 ⅛" for lock housing.

STRIKE
1 ⅛" x 2 ¾" square corner.

FINISHES
IND90-G2 is available in stock in US26D, US26, US10B, US4, US3 and US1 finishes. Refer to price list for other stock finishes and functions.

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LEVERSET / DEADBOLT COMBO PACK

6-PIN "C" KEYWAY CYLINDER, KEYED ALIKE

PIONEER SL / T220 (SL00 / T220)

SL SERIES (NON CLUTCH MECHANISM), OPTIONAL THRU BOLT INSTALLATION FOR COMMERCIAL AND RESIDENTIAL APPLICATIONS

MEETS
The Buy American Act

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997
LIFETIME WARRANTY
BHMA CERTIFIED
HURRICANE APPROVED HARDWARE FLORIDA BUILDING CODE FL13922-R7
HURRICANE APPROVED HARDWARE TEXAS EVALUATION ID DR-472
For Pioneer SL Series

PACKAGED TOGETHER IN THE SAME BOX



Concealed screw mounting

UL LISTED 3 HOUR RATED
½" Throw deadlatch completely reversible for flat & beveled doors

Individual spring on each side to prevent lever sag, maintain reliability and reduce maintenance

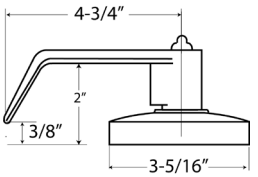
Full length lever handle with ⅜" return

Sturdy, all steel latch case and mechanism

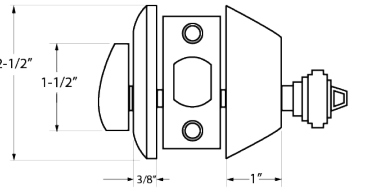
2 ½" diameter tapered cylinder guard and metal insert, turns free with any removal attempt

Cast iron solid housing

Solid brass 6 pin "C" keyway cylinder; Keyed alike



SL DESIGN



T220 DEADBOLT

SPECIFICATIONS

PIONEER SL

DOOR RANGES
1 ⅜" to 1 ¾" thickness doors

BACKSET
2 ¾" Standard, 2 ⅜" Optional

LATCH BOLT
½" Throw solid brass, reversible for RH or LH applications. UL Listed

LATCH FACEPLATE
2 ¼" x 1 ⅛", adjustable for flat or beveled doors ⅛" in 2", for 2 ¾" backset. Optional 2 ¼" x 1" for 2 ⅜" backset

STRIKES
ASA strike standard, "T" and full lip strike available on request

EXPOSED TRIM
Wrought brass, bronze or stainless steel, levers are Zinc casting, plated to match trim finish

ANSI STANDARDS
Meets or exceeds requirements of ANSI / BHMA A156.2 Series 4000, Grade 2 (FF-H 106C), 400,000 cycles

T220

DOOR RANGES
1 ⅜" to 1 ¾" thickness doors

BACKSET
Adjustable 2 ⅜" or 2 ¾"

DEADBOLT FACEPLATE
Latch bolt: Standard 2 ¼" x 1" packed with ⅛" plastic filler to convert 1" face plate to 1 ⅛" wide door preparations

TRIM
Wrought Brass or Stainless Steel

BORE DIAMETER
1" for latch, 1 ½" or 2 ⅛" for lock housing

STRIKE
1 ⅛" x 2 ¾" Square Corner

KNOBSET / DEADBOLT COMBO PACK

6-PIN "C" KEYWAY CYLINDER, KEYED ALIKE

BARRINGTON / T220 (BA00 / T220)

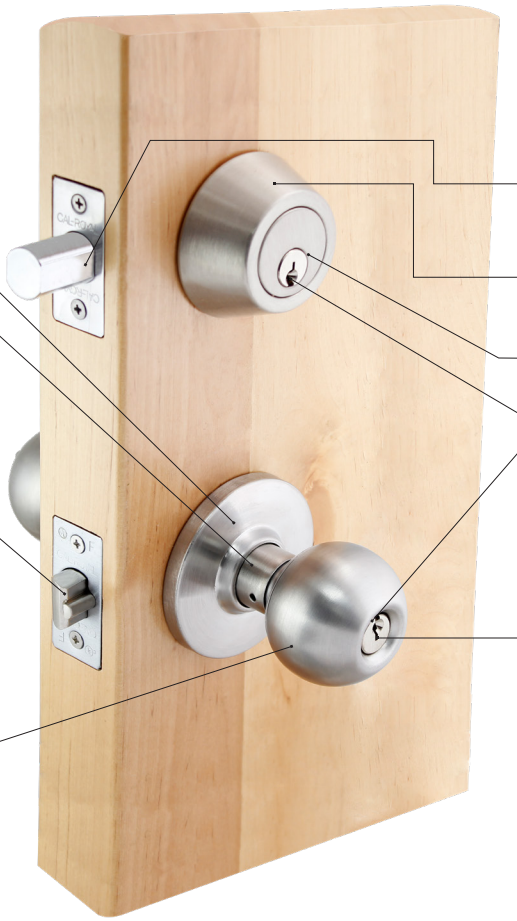
QUALITY DESIGNED AND ENGINEERED FOR COMMERCIAL AND RESIDENTIAL APPLICATIONS

MEETS
The Buy American Act

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

LIFETIME WARRANTY
For Barrington Series

PACKAGED TOGETHER IN THE SAME BOX



Outside rose, threaded 3" diameter large rose adjustable for various door thickness

Long spindle hub eliminates hub wobble

Deadlatch affords a high degree of security. Standard with solid, rustless, pressure cast. #300 series anti-magnetic stainless steel or brass latch bolt available with UL listed latch bolt for 3 hour rated door 4' x 8' or non-UL latch bolt

Cylinder knob demountable for quick re-keying and replacement: reversible for either left or right hand door swinging in or out

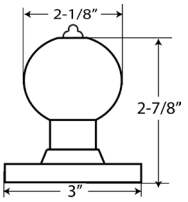
Sturdy, all steel latch case and mechanism

2 ½" diameter tapered cylinder guard and metal insert, turns free with any removal attempt

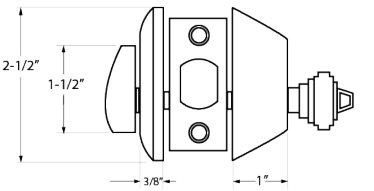
Cast iron solid housing

Solid brass 6 pin "C" keyway cylinder; Keyed alike

Cylinder precision solid brass. Pick resistant 6-pin tumbler. Must turn key one-quarter to remove and replace cylinder. Can be construction keyed and master keyed as required



BA DESIGN



T220 DEADBOLT

SPECIFICATIONS

BARRINGTON

DOOR RANGES
1 ⅜" to 1 ¾" thickness doors

BACKSET
2 ¾" Standard, 2 ⅜" Optional

LATCH FACEPLATE
2 ¼" x 1 ⅛" for 2 ¾" backset, 2 ¼" x 1" for 2 ⅜" backset

STRIKES
ANSI strike standard, 4 ⅞" x 1 ¼". Optional "T" and full lip strike available on request

EXPOSED TRIM
Wrought Brass, Bronze or Stainless Steel

BORE DIAMETER
1" for latch. 2 ⅛" for lock housing

ANSI STANDARDS
Meets or exceeds requirements of ANSI / BHMA A156.2 Series 4000 for Grade 2 (FF-H-106C)

T220

DOOR RANGES
1 ⅜" to 1 ¾" thickness doors

BACKSET
Adjustable 2 ⅜" or 2 ¾"

DEADBOLT FACEPLATE
Latch bolt: Standard 2 ¼" x 1" packed with ⅛" plastic filler to convert 1" face plate to 1 ⅛" wide door preparations

TRIM
Wrought Brass or Stainless Steel

BORE DIAMETER
1" for latch, 1 ½" or 2 ⅛" for lock housing

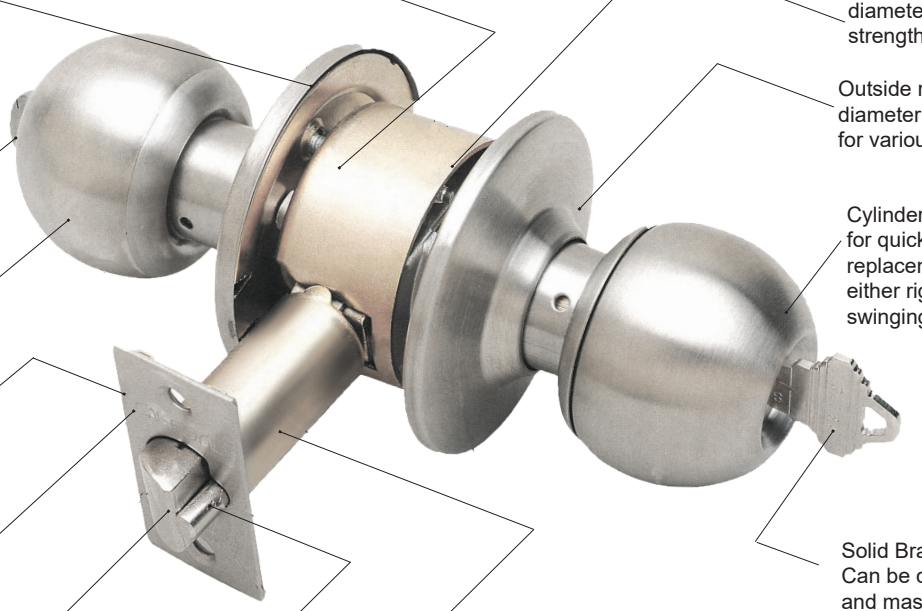
STRIKE
1 ⅛" x 2 ¾" Square Corner

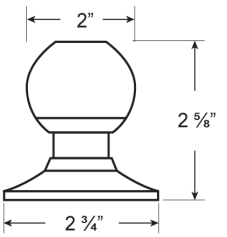
COLUMBUS

QUALITY DESIGNED AND ENGINEERED FOR LIGHT COMMERCIAL AND RESIDENTIAL APPLICATIONS

LIFETIME WARRANTY

Conforms with ANSI A156.2
Series 4000, Grade 3
Exceeds 200,000 cycles





7500 SERIES

SPECIFICATIONS

DOOR RANGES
Adjustable for 1 ⅜" to 1 ¾" door thickness.

BACKSET
Standard 2 ⅜" and 2 ¾" adjustable.

LATCH FACEPLATE
2 ¼" x 1" standard.

STRIKES
T strike standard. Optional ANSI or full lip strike available.

KEYING: 5-pin "C" keyway cylinder, 2 keys per lock.

BORE DIAMETER: 1" for latch. 2 ⅛" for lock housing.

ADDITIONAL KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

EXPOSED TRIM
Wrought brass, bronze or stainless steel.

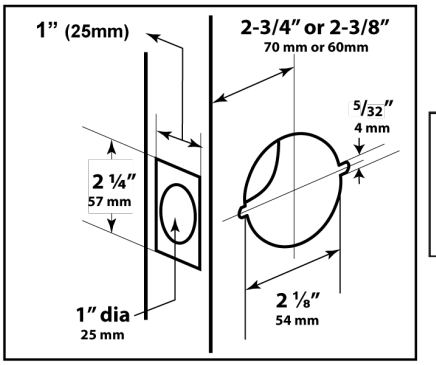
ANSI STANDARDS
Meets or exceeds requirements of ANSI / BHMA A156.2 Series 4000 for Grade 3 (FF-H-106C).

COLUMBUS SERIES FINISHES AND FUNCTIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome
630	US32D	Satin Stainless Steel

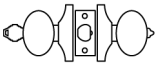
Refer to price list for stock finishes and functions

DOOR PREPARATION



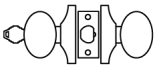
LIFETIME WARRANTY

7500
ANSI F109
FED #161A / 160A



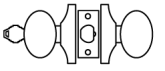
ENTRANCE / OFFICE LOCK
Turn / Push button locking. Pushing and turning button locks outside knob requiring use of key until button is manually unlocked. Pushing button locks outside knob until unlocked with key or inside knob is turned.

7503
ANSI F84



CLASSROOM
Deadlocking latch bolt operated by knob from either side except when outside knob is locked from outside by key. When outside knob is locked, latch bolt is operated by turning inside knob.

7505
ANSI F86



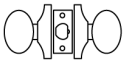
STOREROOM
Deadlocking latch bolt operated by key in outside knob or by rotating inside knob. Outside knob is always fixed.

7520
ANSI F76
FED # 161L / 160L



PRIVACY LOCK
Latch bolt operated by knob from either side. Outside knob is locked by push button inside and unlocked by emergency release outside. Turning inside knob or closing door releases push button.

7530
ANSI F75
FED # 161N / 160N



PASSAGE SET
Latch bolt operated by knob from either side at all times.

7540



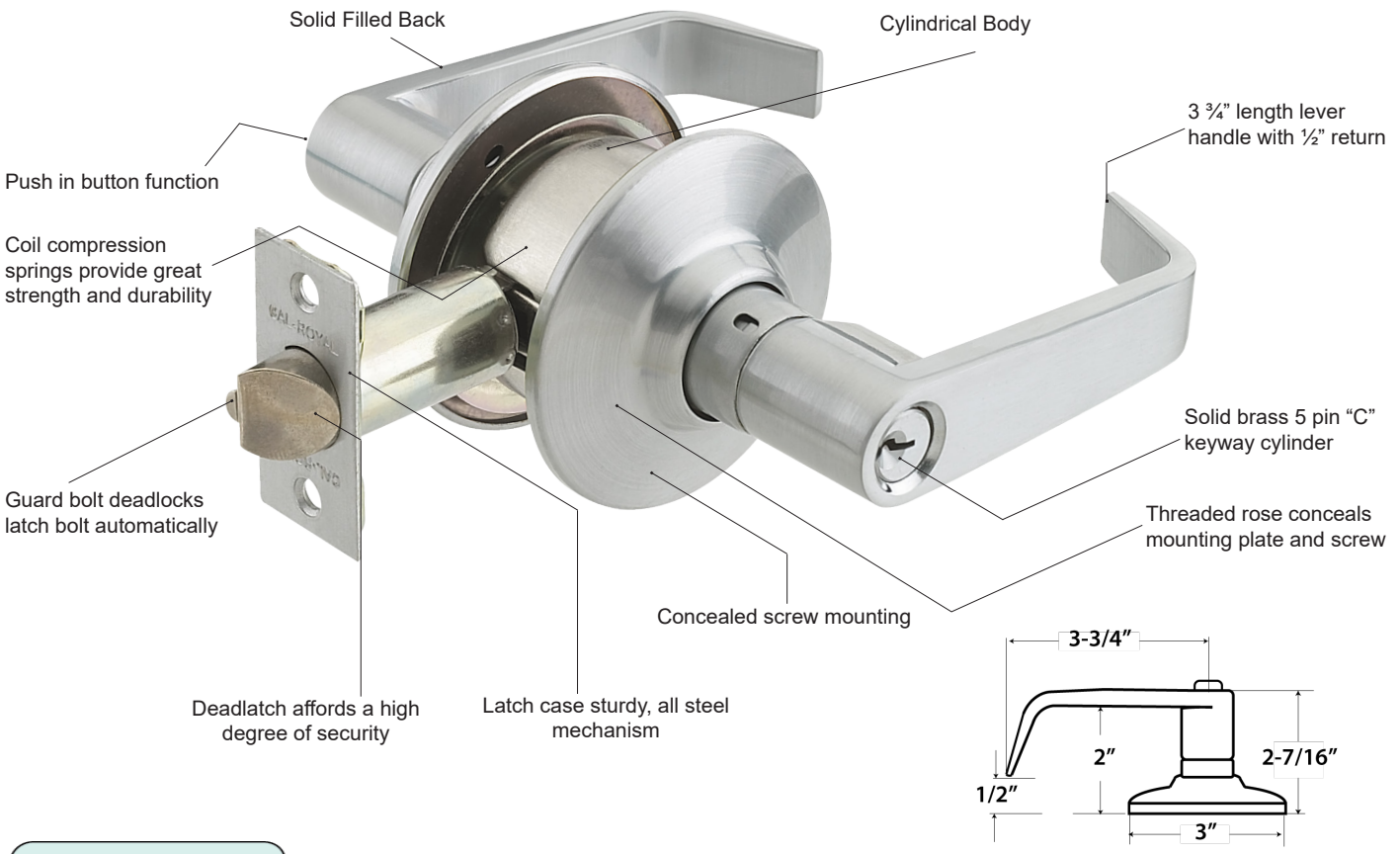
DUMMY LEVER
Single dummy trim for one side of door. Pull only.

OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

EPIC

FOR LIGHT COMMERCIAL AND RESIDENTIAL APPLICATIONS
CYLINDRICAL LEVERSET
MEETS ANSI STANDARD A156.2, GRADE 3

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI / BHMA A156.2, Series 4000, Grade 3 Requirements
Exceeds 200,000 Cycles



SPECIFICATIONS

APPLICATIONS
For residential or light commercial applications.

DOOR RANGES
1 ⅜" to 2" thickness doors.

BACKSET
2 ⅜" or 2 ¾" backset.

LATCH BOLT
Diecast Zinc, Brass, Chrome or Brass plated 7/16" (11mm) Throw Latch Bolt.

LATCH FACEPLATE
2 ¼" x 1 ⅛" for 2 ¾" backset.
2 ¼" x 1" for 2 ⅜" backset.

CYLINDER & KEYWAYS
5 pin solid brass Schlage "C" keyway standard.

EXPOSED TRIM
Wrought brass, bronze or stainless steel, levers are zinc casting, plated to match trim finish.

STRIKES
ASA Strike Standard for Entrance function (**Commercial**);
T-Strike Standard for Privacy and Passage functions (**Commercial**).

Full Lip Strike Round Corner Standard for Privacy and Passage functions (**Residential**).

ANSI STANDARDS
Meets or exceeds requirements of ANSI / BHMA A156.2 Series 4000, Grade 3.

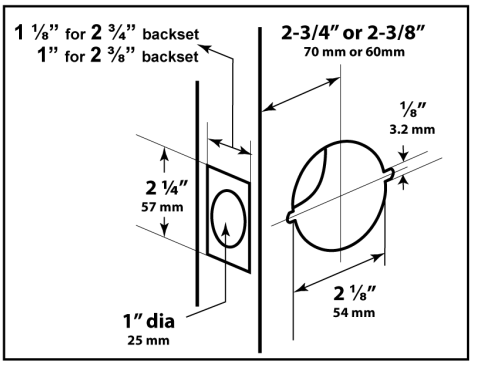
LATCH & STRIKE SCREWS
8-32 x 1" FPH Dual Purpose.

EPIC 800 SERIES FINISHES AND FUNCTIONS

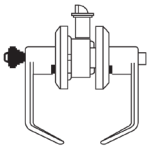
FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
612	US10	Satin Bronze
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

DOOR PREPARATION

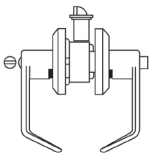


800
ANSI: F82



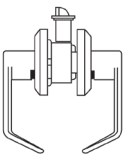
ENTRANCE / OFFICE LOCK
Turn / Push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Pushing button locks outside lever until unlocked with key or inside lever is turned.

802
ANSI: F76



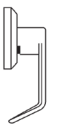
PRIVACY LOCK
Latch bolt operated by lever from either side. Outside lever is locked by push button inside and unlocked by emergency release outside. Turning inside lever or closing door releases push button.

803
ANSI: F75



PASSAGE SET
Latch bolt operated by lever from either side at all times.

805



DUMMY LEVER
Single dummy trim for one side of door. Pull only.

OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST

***Entrance** function (**Commercial leverset**) packaging includes:*
- ***ASA Strike***
- *2 ¾" backset; 2 ¼" x 1 ⅛" square corner faceplate*

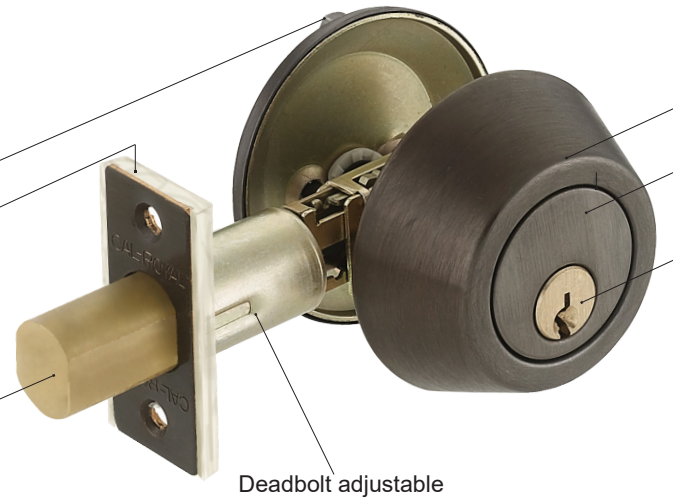
***Privacy and Passage** functions (**Commercial leverset**) packaging includes:*
- ***T-Strike***
- *2 ¾" backset; 2 ¼" x 1 ⅛" square corner faceplate*

***RES802 and RES803 (Residential leverset)** packaging includes:*
- ***Full lip strike**, round corner*
- *2 ⅜" backset;*
- *2 ¼" x 1" round corner faceplate*

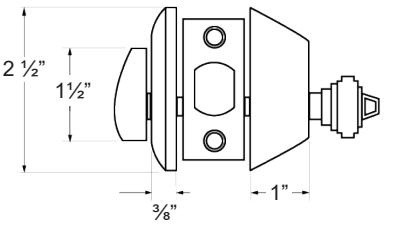
T220 STANDARD DUTY DEADBOLTS
GL220 STANDARD DUTY GATE LATCHES
FOR LIGHT COMMERCIAL AND RESIDENTIAL APPLICATIONS

MEETS
The Buy American Act

Conforms with ANSI A156.36, Grade 3
Exceeds 100,000 cycles



T220 DEADBOLT



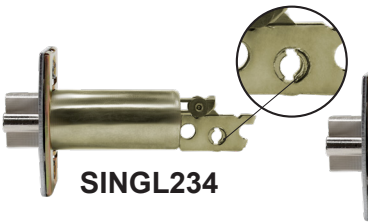
GL330 GATE LATCH DOUBLE CYLINDER



GL220 GATE LATCH SINGLE CYLINDER



SINGL238 - 2 ⅜" backset gate latch and for single cylinder deadbolt
SINGL234 - 2 ¾" backset gate latch and for single cylinder deadbolt
GL238 – 2 ⅜" backset gate latch and for double cylinder deadbolt
GL234 – 2 ¾" backset gate latch and for double cylinder deadbolt



SINGL234



SINGL238



GL238



GL234

SPECIFICATIONS

TRIM
Wrought Brass or Stainless Steel.

DOOR RANGES
Adjustable 1 ⅜" (35mm) to 1 ¾" (45mm) door thickness.

BACKSET
Adjustable 2 ⅜" or 2 ¾" for T220 and T330.
For GL220 and GL330 specify backset.

DEADBOLT FACEPLATE
Latch bolt: Standard 2 ¼" x 1" packed with 1 ⅛" plastic filler to convert 1" face plate to 1 ⅛" wide door preparations.

BORE DIAMETER
1" for latch, 1 ½" or 2 ⅛" for lock housing.

STRIKE
1 ⅛" X 2 ¾" square corner.

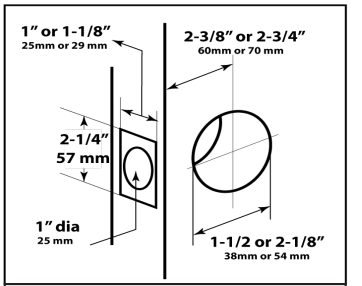
- **INTERCHANGEABLE CORE**
  Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.
- Interchangeable Core locks will also accept SCHLAGE full size format OEM interchangeable core cylinders and compatible Schlage 6-pin Interchangeable Core. Interchangeable Core offered by Cal-Royal Products, Inc.

T220 / GL220 SERIES FINISHES AND FUNCTIONS

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
622	US1	Flat Black Coated
605	US3	Polished Brass
606	US4	Satin Brass
609	US5	Antique Brass
613E	US10BE	Dark Oxidized Satin Bronze, Equivalent
619	US15	Satin Nickel
625	US26	Polished Chrome
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

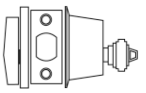
DOOR PREPARATION



Bore halfway through door only for doors with no external trim.

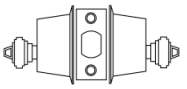
MEETS
The Buy American Act

T220
ICT220
SCICT220
ANSI E0153



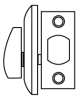
Single Cylinder Deadbolt
Dead locking latch bolt retracted by key from outside or by thumb turn on inside. Adjustable 2 ⅜" or 2 ¾" backset.

T330
ICT330
SCICT330
ANSI E0143



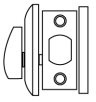
Double Cylinder Deadbolt
Dead locking deadbolt retracted by key from either side. Adjustable 2 ⅜" or 2 ¾" backset.

ID58



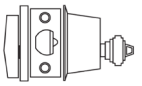
One Sided Deadbolt
Deadbolt thrown or retracted by turn unit only. No outside trim. Bore halfway through door for installation visible from one side of door only.

ID60



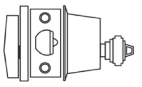
One Sided Deadbolt
Deadbolt thrown or retracted by turn unit only. Blank plate is on external trim to be used on bore holes 1 ⅝" and 2 ⅛" wide.

GL220
ICGL220
SCICGL220
ANSI E0153



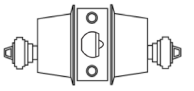
Single Cylinder Gate Latch
Dead locking latch bolt retracted by key from outside or by thumb turn on inside. Otherwise always locked (2 ⅜" backset)

GL220234
ICGL220234
SCICGL220234
ANSI E0142



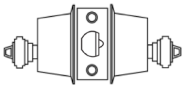
Single Cylinder Gate Latch
Dead locking latch bolt retracted by key from outside or by thumb turn on inside. Otherwise always locked (2 ¾" backset)

GL330
ICGL330
SCICGL330
ANSI E0143



Double Cylinder Gate Latch
Dead locking latch bolt retracted by key from either side. Otherwise, always locked. (2 ⅜" backset)

GL330234
ICGL330234
SCICGL330234
ANSI E0142



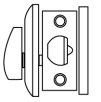
Double Cylinder Gate Latch
Dead locking latch bolt retracted by key from either side. Otherwise, always locked. (2 ¾" backset)

GL58



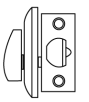
One Sided Latch Bolt
Dead latch retracted by thumb turn, no outside trim. Visible from one side of door only. Otherwise always locked.

GL60



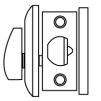
One Sided Latch Bolt
Dead latch retracted by thumb turn unit. Blank plate on external trim to be used on bore holes 1 ⅝" and 2 ⅛" diameter. Otherwise, always locked.

GL58234

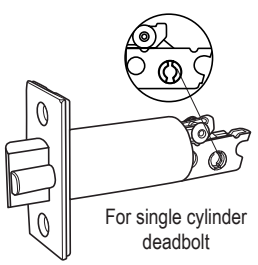


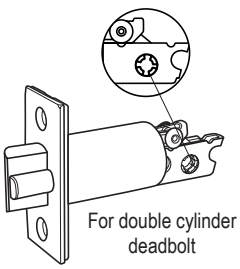
One Sided Latch Bolt
Dead latch retracted by thumb turn, no outside trim. Visible from one side of door only. Otherwise always locked.

GL60234



One Sided Latch Bolt
Dead latch retracted by turn unit. Blank plate on external trim to be used on bore holes 1 ⅝" and 2 ⅛" diameter. Otherwise, always locked.





ADDITIONAL PARTS	
SINGL238	2 ⅜" backset gate latch (1 ⅛" x 2 ¼") for single cylinder deadbolt
SINGL234	2 ¾" backset gate latch (1 ⅛" x 2 ¼") for single cylinder deadbolt
GL238	2 ⅜" backset gate latch (1 ⅛" x 2 ¼") for double cylinder deadbolt
GL234	2 ¾" backset gate latch (1 ⅛" x 2 ¼") for double cylinder deadbolt

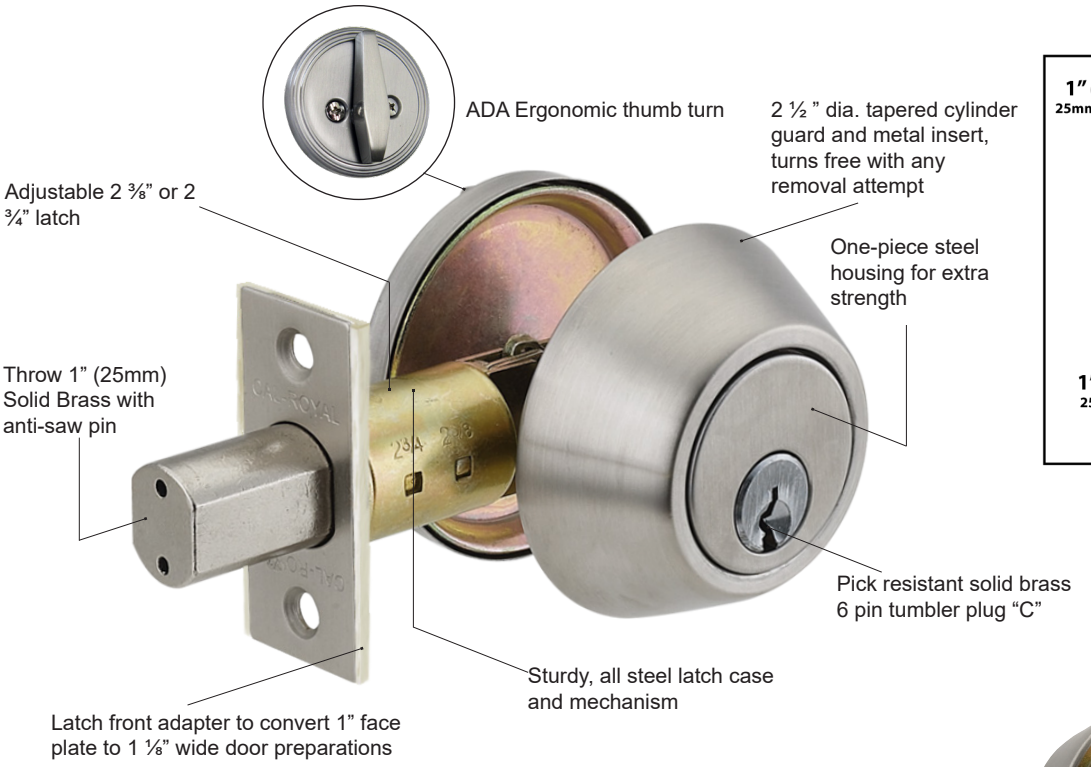
"IC" Indicates function available with BEST, FALCON & ARROW Interchangeable Core.
"SCIC" Indicates function available with SCHLAGE full size format Interchangeable Core.

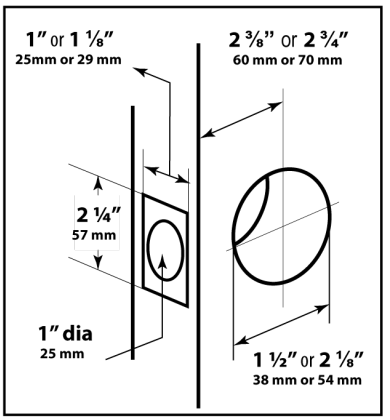
OTHER FUNCTIONS NOT LISTED ARE AVAILABLE UPON REQUEST
HOLD BACK FEATURE ON DEADBOLT WITH GATE LATCH NOT AVAILABLE

LSD STANDARD DUTY DEADBOLTS

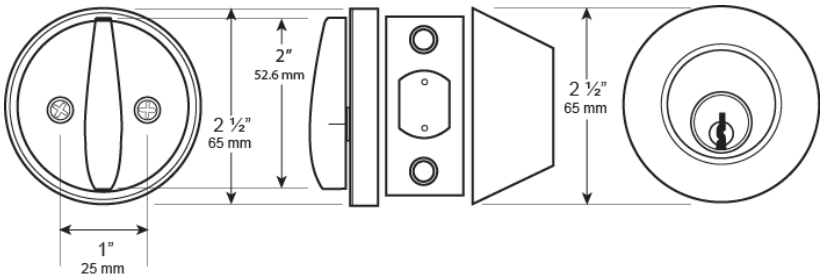
FOR LIGHT COMMERCIAL AND RESIDENTIAL APPLICATIONS

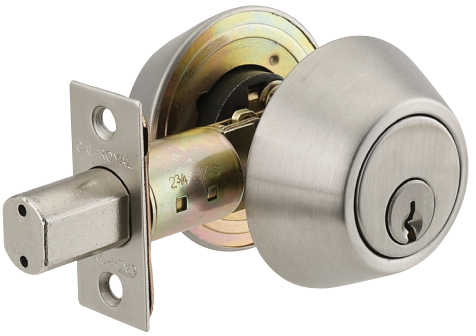
Conforms with ANSI A156.36 Grade 3, Exceeds 100,000 cycles





LSD01
SINGLE CYLINDER





LSDD88
DOUBLE CYLINDER

SPECIFICATIONS

TRIM
Wrought Brass or Stainless Steel.

BACKSET
Adjustable 2 ⅜" or 2 ¾".

DEADBOLT FACEPLATE
Standard 2 ¼" x 1". Packed with ⅛" plastic filler to convert 1" face plate to 1 ⅛" wide door preparations.

DOOR RANGES
Adjustable 1 ⅜" (35mm) to 1 ¾" (45mm) door thickness.

BORE DIAMETER
1" for latch, 1 ½" or 2 ⅛" for lock housing.

KEYWAYS
6 pin solid brass "C" keyway standard. Optional Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

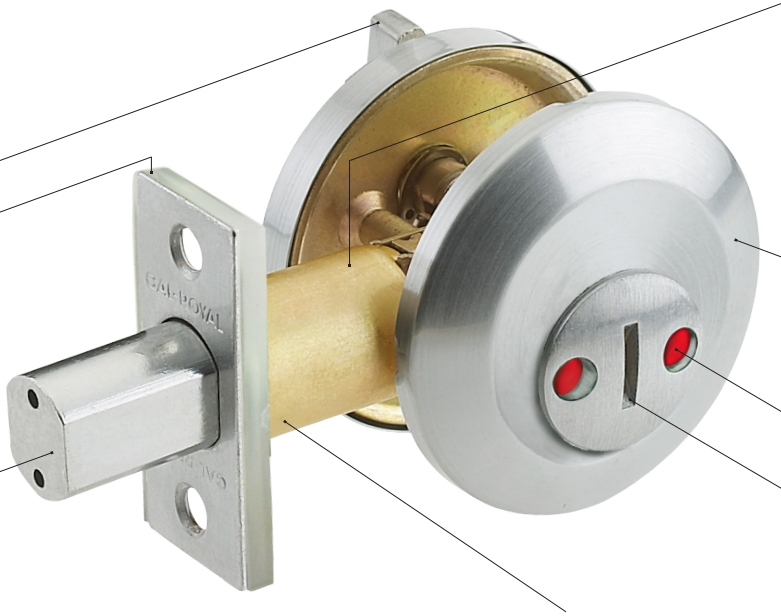
STRIKE
1 ⅛" x 2 ¾" square corner.

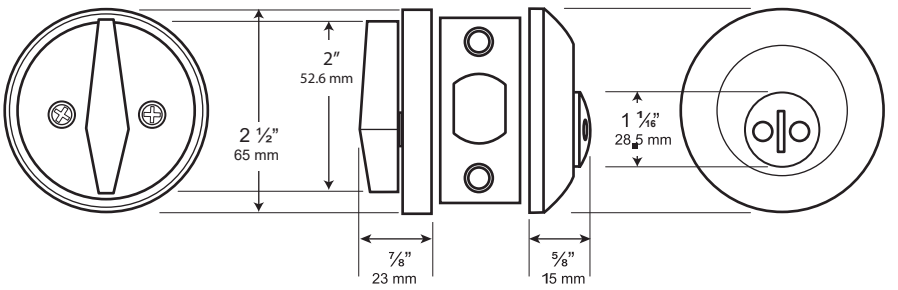
FINISHES
LSD SERIES is available in stock in US32D, 26, 26D, 10B, US3 and US15 finishes. Refer to price list for other stock finishes and functions.

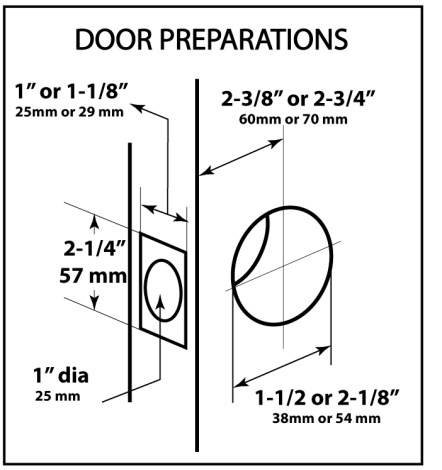
IND84 INDICATOR DEADBOLTS

FOR COMMERCIAL AND RESIDENTIAL APPLICATIONS

Conforms with ANSI A156.36, Grade 3
Exceeds 100,000 cycles







SPECIFICATIONS

TRIM
Wrought Brass or Stainless Steel.

DOOR RANGES
Adjustable 1 ⅜" (35mm) to 1 ¾" (45mm) door thickness.

BACKSET
Adjustable 2 ⅜" or 2 ¾".

DEADBOLT FACEPLATE
Standard 2 ¼" x 1" packed with ⅛" plastic filler to convert 1" face plate to 1 ⅛" wide door preparations.

BORE DIAMETER
1" for latch, 1 ½" or 2 ⅛" for lock housing.

STRIKE
1 ⅛" x 2 ¾" square corner.

FINISHES
IND84 is available in stock in US26D, 3, 4 and 10B finishes. Refer to price list for other stock finishes and functions.

INDLEV-20 SERIES
COMMERCIAL GRADE
PRIVACY INDICATOR LEVERSET



Red (IN USE) and Green (VACANT) Indicator



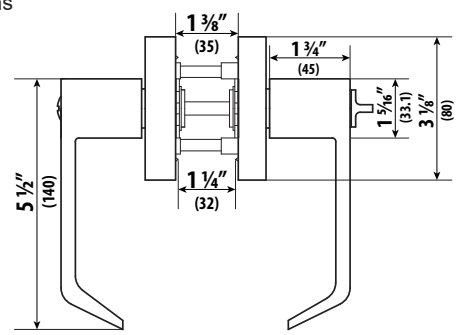
both 2 ⅜" Backset and 2 ¾" Backset packed standard

Emergency Slot available for emergency opening

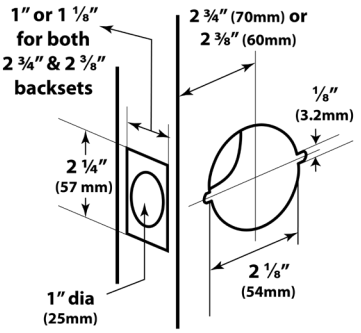
Packed with plastic filler for 1 ⅛" wide door preparations



Inside Thumbturn



DOOR PREPARATIONS



SPECIFICATIONS

TRIM
Stainless Steel Rose Cover and Aluminum Lever.

DOOR RANGES
Adjustable 1 ⅜" (35mm) to 1 ¾" (45mm) door thickness.

BACKSET
Packed Standard with both 2 ⅜" and 2 ¾" Backset

LATCH FACEPLATE
Standard 2 ¼" x 1" packed with 1 ⅛" plastic filler to convert 1" face plate to 1 ⅛" wide door preparations.

BORE DIAMETER
1" for latch, 2 ⅛" for lock housing.

STRIKE
ASA478 ANSI Strike Standard.

FINISH
INDLEV-20 is available in stock in US26D, US26, US19, US10B, and US3 finishes.

EMERGENCY SLOT
It has an emergency slot on the outside trim to unlock the door in case of emergency.

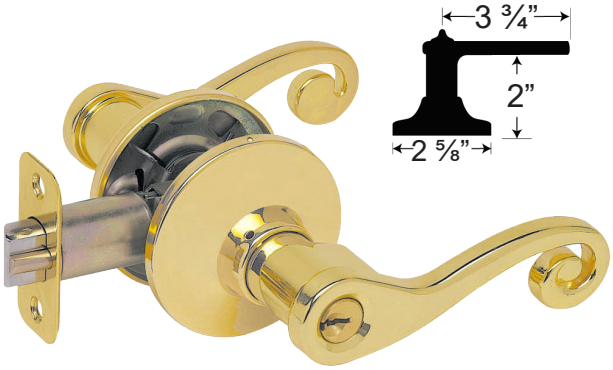
HANDING
Reversible for left and right door application.

ASHLEY SERIES TUBULAR LOCKSETS / LEVERSETS



LEPRE00 (HANDED)
SPECIFY

PREMIER SERIES

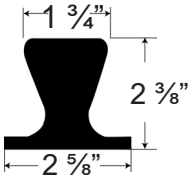


LESIG00 (HANDED)
SPECIFY

SIGNATURE SERIES



RIZ00



RITZ SERIES

FEATURES & SPECIFICATIONS

- Grade 3, ANSI Standard A156.2
- Brass Trim and Knob. Levers and Handles are Brass Plated
- Kwikset Keyway. Re-keyable for Master and Construction Keying
- Weiser and Keyway Available on Special Factory Order Only
- For Wood and Metal Doors, Fits 1 3⁄8” to 1 3⁄4” Thick Doors
- 2 3⁄8” or 2 3⁄4” Adjustable Backset, Size 1” x 2 1⁄4” Round Corner Standard
- Square Corner Option and Drive-in Adjustable Backset is also Available
- Round Corner Full Lip Strike is Standard. Other Strike Options are also Available
- Keyed Entry Comes with Lever / Lever for Exterior and Interior
- Easy Installation
- When ordering prefix Series Design to function number: (ex: **RIZ00 Entry**).

FUNCTIONS

00 - Entry
20 - Privacy (Bed & Bath)
30 - Passage (Hall & Closet)
40 - Dummy (Active Dummy, not rigid)
05 - Storeroom (Vestibule)

EXCEL LIFETIME ANTI-TARNISH FINISH AVAILABLE

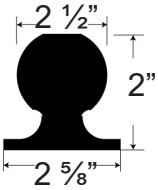
FINISHES

- US3 - Polished Brass
- US5 - Antique Brass
- US15 - Satin Nickel
- US15A - Antique Nickel
- US10B - Oil Rubbed Bronze
- US26D - Satin Chrome
- US26 - Polished Chrome
- Other finishes available upon request based on quantity with factory lead time.
- **Refer to pricelist for stock functions and finishes**
- For **EXCEL LIFETIME FINISH** on polished brass, prefix “**LIF**” before part #, with factory lead time

5 Year Finish Warranty
25 Year Mechanical Warranty

CHELSIE SERIES TUBULAR LOCKSETS

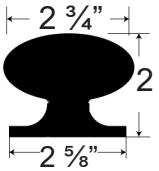
OPTIONAL UL LATCH



REN-00



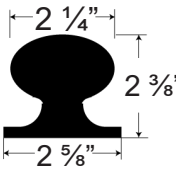
RENO DESIGN
"REN" SERIES



ASP-00



ASPEN DESIGN
"ASP" SERIES



BER-00



BERMUDA DESIGN
"BER" SERIES

FEATURES & SPECIFICATIONS

- Grade 3, ANSI Standard A156.2
- Brass Trim. Levers and Handles are Brass Plated
- Kwikset Keyway. Re-keyable for Master and Construction Keying
- Weiser and Schlage "C" Keyway Available on Special Factory Order
- Optional 3 Hour Fire Rated UL Latch on Entrance and Passage functions only **(ULENTK-4 for Entrance, and ULPASK-6 for Passage)**
- For Wood and Metal Doors
- Fits 1 ⅜" to 1 ¾" Thick Doors
- Reversible for Right and Left Handed Doors
- 2 ⅜" or 2 ¾" Adjustable Backset, Size 1" x 2 ¼" Round Corner Standard
- Square Corner Option is also Available
- Drive-in Adjustable Backset is also Available
- Round Corner Full Lip Strike is Standard
- Other Strike Options are also Available
- Easy Installation
- When ordering prefix Series Design to function number: (ex: **REN-00 Entry**).

FINISHES

- US3 - Polished Brass
- US5 - Antique Brass
- US15 - Satin Nickel
- US15A - Antique Nickel
- US10B - Oil Rubbed Bronze
- US26D - Satin Chrome
- US26 - Polished Chrome
- Other finishes available upon request based on quantity with factory lead time.
- **Refer to pricelist for stock functions and finishes**
- For **EXCEL LIFETIME FINISH** on polished brass, prefix "**LIF**" before part #, with factory lead time

FUNCTIONS

00 - Entry
20 - Privacy (Bed & Bath)
30 - Passage (Hall & Closet)
40 - Dummy (Active Dummy, not rigid)
05 - Storeroom (Vestibule)

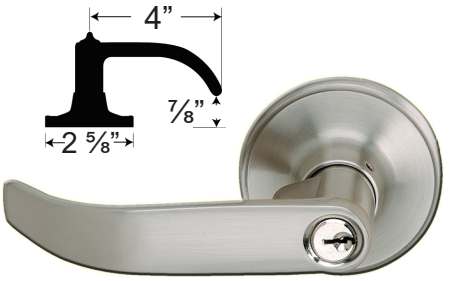
EXCEL LIFETIME ANTI-TARNISH FINISH AVAILABLE

5 Year Finish Warranty
25 Year Mechanical Warranty

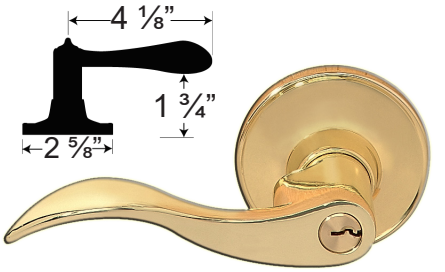
CHELSIE SERIES LEVERSETS

OPTIONAL UL LATCH

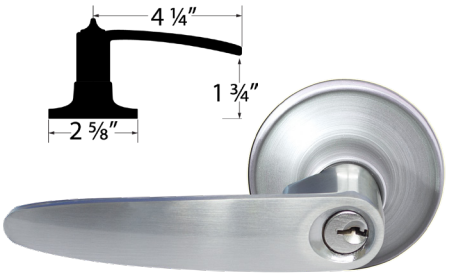
ADA



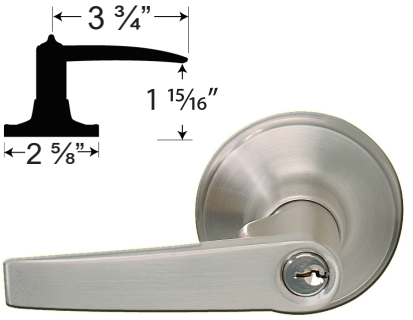
SOPHIA “SOP” SERIES
(NON-HANDED)



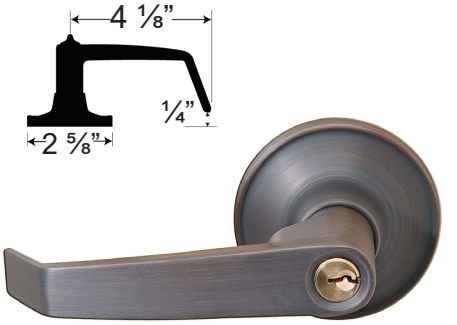
MAYFAIR “MAY” SERIES
(HANDED)



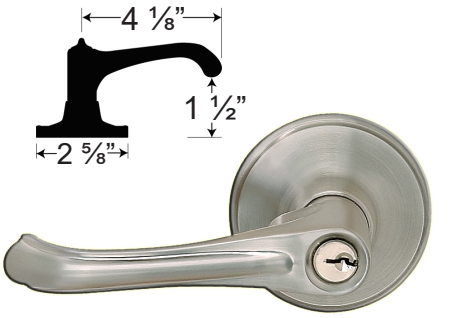
KOBE “KOB” SERIES
(NON-HANDED)



LENOX “LEN” SERIES
(NON-HANDED)



BRISTOL “BRI” SERIES
(NON-HANDED)



AUSTIN “AUS” SERIES
(NON-HANDED)

FEATURES & SPECIFICATIONS

- Grade 3, ANSI Standard A156.2
- Brass Trim. Levers are Brass Plated
- Kwikset Keyway. Re-keyable for Master and Construction Keying
- Weiser and Schlage “C” Keyway Available on Special Factory Order
- For Wood and Metal Doors, Fits 1 3/8” to 1 3/4” Thick Doors
- Optional 3 Hour Fire Rated UL Latch on Entrance and Passage functions only **(ULENTL-5 for Entrance, and ULPASL-7 for Passage)**
- 2 3/8” or 2 3/4” Adjustable Backset, Size 1” x 2 1/4” Round Corner Standard
- Square Corner Option and Drive-in Adjustable Backset is also Available
- Round Corner Full Lip Strike is Standard. Other Strike Options are also Available
- Keyed Entry Comes with Lever / Lever for Exterior and Interior
- 1” Bore Diameter for Latch, 2 1/8” Diameter for Lock Housing
- Easy Installation
- When ordering prefix Series Design to function number: (ex: **LEN-00 Entry**).

FUNCTIONS

00 - Entry
20 - Privacy (Bed & Bath)
30 - Passage (Hall & Closet)
40 - Dummy (Active Dummy, not rigid)
05 - Storeroom (Vestibule)

EXCEL LIFETIME ANTI-TARNISH FINISH AVAILABLE

FINISHES

- US3 - Polished Brass
- US5 - Antique Brass
- US15 - Satin Nickel
- US15A - Antique Nickel
- US10B - Oil Rubbed Bronze
- US26D - Satin Chrome
- US26 - Polished Chrome
- Other finishes available upon request based on quantity with factory lead time.
- **Refer to pricelist for stock finishes**
- For **EXCEL LIFETIME FINISH** on polished brass, prefix “**LIF**” before part #, with factory lead time

5 Year Finish Warranty
25 Year Mechanical Warranty

CHELSIE SERIES HANDLESETS



MERIDIAN DESIGN
“MER” SERIES



BAYBRIDGE DESIGN
“BAB” SERIES



SAVANNAH DESIGN
“SAV” SERIES



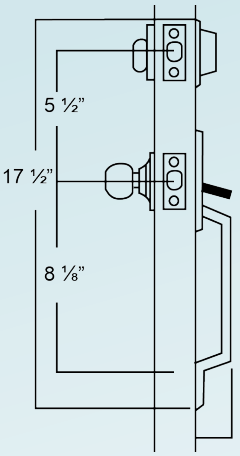
DEERFIELD DESIGN
“DEE” SERIES



CAMBRIDGE DESIGN
“CAM” SERIES

FEATURES & SPECIFICATIONS

- Grade 3, ANSI Standard A156.2, Light Duty Handlesets
- 5 Year Finish Warranty., 25 Year Mechanical Warranty
- All Metal Body and Parts
- All Solid Brass Forged Body
- Solid Filled Handle Grip
- Non-Locking Knob or Lever Operates Latch from Interior
- Thumb Piece Operates Handleset Latch from Exterior
- Interior Leverset see Chelsie Series
- Strikes and Latchbolts Same as Knob & Leversets
- Reversible for Right and Left Handed Doors Except Mayfair
- “KW” 5-Pin Kwikset Keyway Standard
- Re-keyable for Master and Construction Keying
- Weiser and Schlage “C” Keyway Available on Special Factory Request
- For Wood and Metal Doors
- 2 ⅜ or 2 ¾ Backset, Size 1” x 2 ¼” Round Corner Standard. Square Corner and Drive-in Adjustable Backset Option also Available on Special Factory Order
- Round Corner Full Lip Strike: 1 ¾” x 2 ¼”. Optional T-strike
- Round Corner Deadbolt Strike: 1” x 2 ¼”
- 1” Bore Diameter for Latch, 2 ⅛” Diameter for Lock Housing
- Architectural Finishes



FINISHES

- US3 - Polished Brass
- US5 - Antique Brass
- US15 - Satin Nickel
- US15A - Antique Nickel
- US10B - Oil Rubbed Bronze
- US26D - Satin Chrome
- US26 - Polished Chrome
- PVD - Physical Vapor Deposition Coating
- **Refer to pricelist for stock functions and finishes**

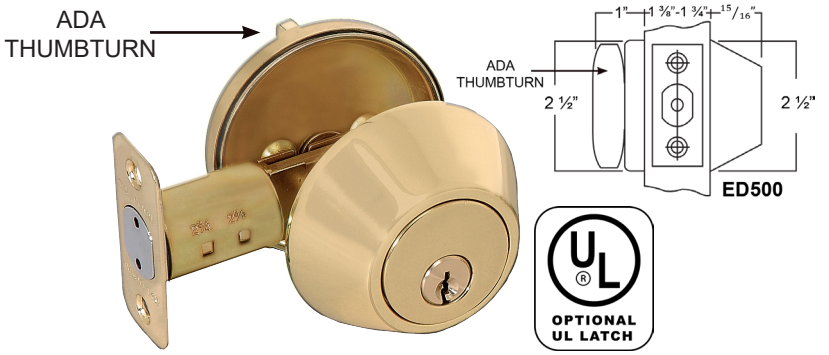
FUNCTIONS

00 - Handle with Single Cylinder Deadbolt
40 - Complete Dummy Trim

5 Year Finish Warranty
25 Year Mechanical Warranty

EXCEL LIFETIME ANTI-TARNISH FINISH AVAILABLE

CHELSIE SERIES DEADBOLTS



ED-500
SINGLE CYLINDER DEADBOLT



EDD-400
DOUBLE CYLINDER DEADBOLT



ID-701
ONE SIDED BOLT



ID-801
ONE SIDED BOLT WITH COVER

FEATURES & SPECIFICATIONS

- Grade 3, ANSI Standard A156.36
- Kwikset Keyway. Re-keyable for Master and Construction Keying
- Weiser and Schlage "C" Keyway Available on Special Factory Order Only
- Optional 3 Hour Fire Rated UL Deadbolt Latch on Part # **ED-500** only **(ULDB-8)**
- For Wood and Metal Doors, Fits 1 ⅜" to 1 ¾" Thick Doors
- Reversible for Right and Left Handed Doors
- 2 ⅜" or 2 ¾" Adjustable Backset, Size 1" x 2 ¼" Round Corner Standard Square Corner and Drive-in Adjustable Backset is also Available
- All Metal Body and Cylinder Construction
- All Exterior Parts are Brass
- Full 1" Throw Deadbolt and Hardened Steel Pin to Prevent Saw Cutting
- 1" x 2 ¼" Strike, Round Corner and Full Lip Strike Round Corner Standard. Square Corner Option also Available. Optional 1 ¼" x 3 ⅝" Security Strike with 3" Screws also Available.
- Easy Installation

FUNCTIONS

ED-500 - Single Cylinder Deadbolt
EDD-400 - Double Cylinder Deadbolt
ID-701 - One Sided Deadbolt
ID-801 - One Sided Deadbolt with Cover Plate

FINISHES

- US3 - Polished Brass
- US5 - Antique Brass
- US15 - Satin Nickel
- US15A - Antique Nickel
- US10B - Oil Rubbed Bronze
- US26D - Satin Chrome
- US26 - Polished Chrome
- Other finishes available upon request based on quantity with factory lead time.
- **Refer to pricelist for stock functions and finishes**
- For **EXCEL LIFETIME FINISH** on polished brass, prefix "**LIF**" before part #, with factory lead time

EXCEL LIFETIME ANTI-TARNISH FINISH AVAILABLE

5 Year Finish Warranty
25 Year Mechanical Warranty

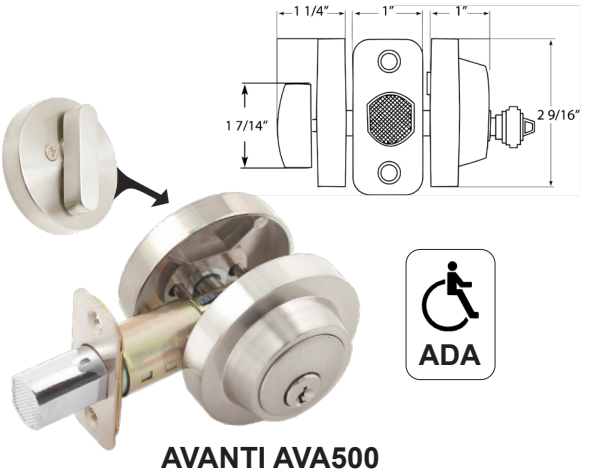
VANGUARD SERIES LEVERSETS & DEADBOLTS



ADA

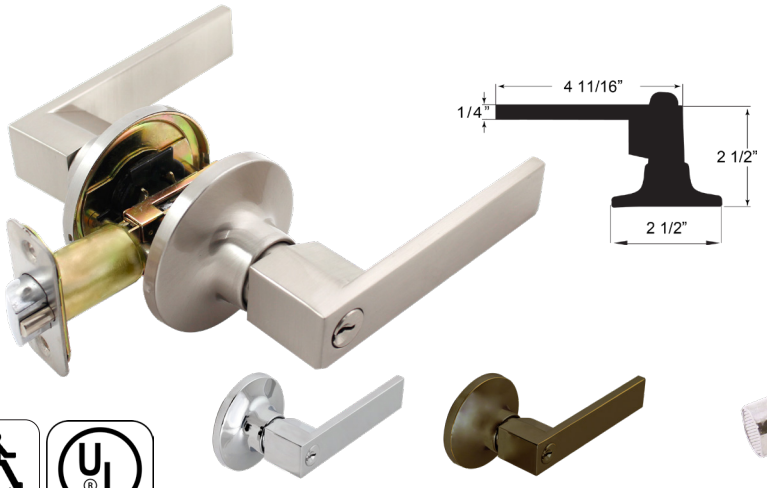
OPTIONAL UL LATCH

NOVUS "NOV" SERIES
NON-HANDED



ADA

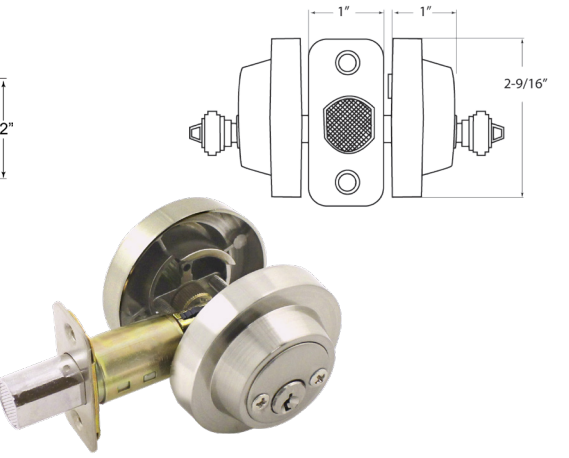
AVANTI AVA500
SINGLE CYLINDER DEADBOLT



ADA

OPTIONAL UL LATCH

MODERNE "MOD" SERIES
NON-HANDED



AVANTI AVA400
DOUBLE CYLINDER DEADBOLT

FEATURES & SPECIFICATIONS

- ANSI Standard A156.2 Leversets and A156.36 Deadbolts, Grade 3
- Kwikset Keyway. Re-keyable for Master and Construction Keying
- Optional Weiser and Schlage "C" Keyway Available
- Optional 3 Hour Fire Rated UL Latch on Entrance and Passage functions only **(ULENTL-5 for Entrance, and ULPASL-7 for Passage)**
- Fits 1 ⅜" to 1 ¾" Wood or Metal doors
- Reversible for Right and Left Handed Doors
- All Metal Body & Cylinder Construction
- Full 1" Throw Deadbolt with Hardened Steel Pin to Prevent Saw Cutting
- Deadbolt Comes with 2 ⅜" or 2 ¾" Adjustable Backset, Size 1" x 2 ¼" Round Corner Standard; Square Corner Option and Drive-in Latch bolt Also Available on Special Factory Order
- Optional 1 ¼" x 3 ⅝" Security Strike with 3" Screws Also Available
- Lever Comes with Round Corner Full Lip Strike
- Lever Comes with **6-way** 2 ⅜" or 2 ¾" Adjustable Backset Convertible to Drive-In, Size 1" x 2 ¼" Round Corner Standard
- Square Corner Option also Available on Special Factory Order
- Easy Installation

FINISHES

- US15 - Satin Nickel
- US11P - Venetian Bronze
- US3 - Polished Brass
- US5 - Antique Brass
- US26D - Satin Chrome
- US26 - Polished Chrome
- US15A - Antique Nickel
- **Refer to price list for stock finishes**
- Other finishes available upon request based on quantity with factory lead time

FUNCTIONS

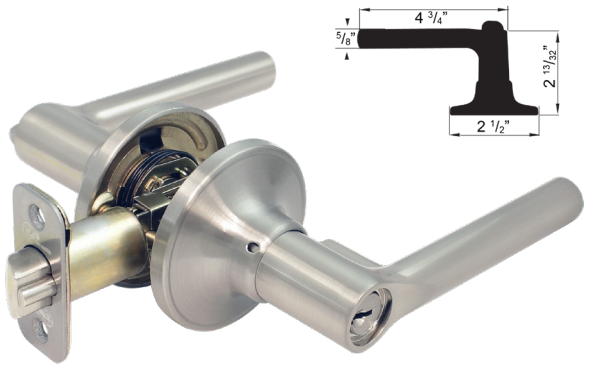
00 - Entry (turn button)
05 - Storeroom (vestibule)
20 - Privacy (bed & bath, turn button)
30 - Passage (hall & closet)
40 - Active Dummy

5 Year Finish Warranty
25 Year Mechanical Warranty

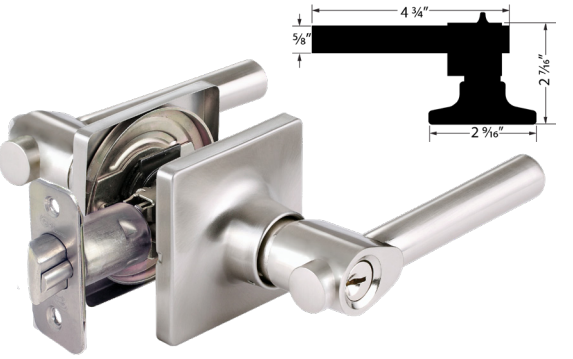
HERITAGE SERIES LEVERSETS

OPTIONAL UL LATCH

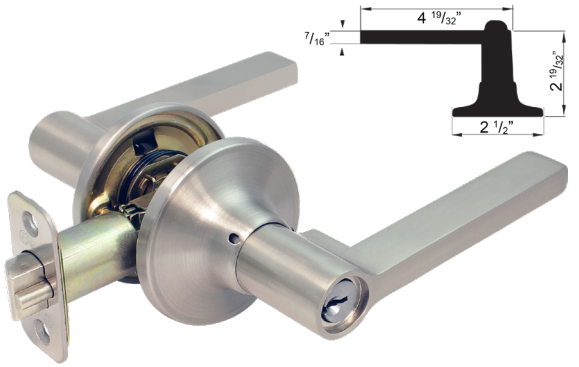
ADA



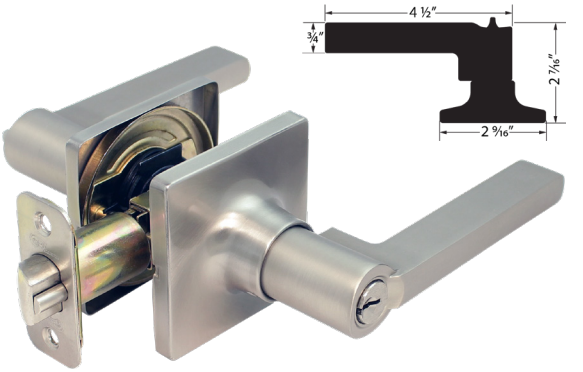
AZURE "AZU" SERIES
(NON-HANDED)



DELAWARE "DEL" SERIES
(NON-HANDED)



ALLURE "ALL" SERIES
(NON-HANDED)



MEMPHIS "MEM" SERIES
(NON-HANDED)

FEATURES & SPECIFICATIONS

- ANSI Standard A156.2 Grade 3
- Keyed Entry with Lever / Lever for Exterior & interior
- Kwikset Keyway; Re-keyable for Master and Construction Keying
- Optional Weiser and Schlage "C" Keyway Available
- Brass and Stainless Steel Trims; Levers are Plated
- 2 ⅜" or 2 ¾" Adjustable Backset, Size 1" x 2 ¼" Round Corner Standard; Square Corner Option and Drive-In Latch bolt also Available on Special Factory Order.
- Optional 3 Hour Fire Rated UL Latch on Entrance and Passage functions only **(ULENTL-5 for Entrance, and ULPASL-7 for Passage)**
- Reversible for Right and Left Handed Doors
- Round Corner Full Lip Strike is Standard
- Fits 1 ⅜" to 1 ¾" Wood or Metal Doors

5 Year Finish Warranty
25 Year Mechanical Warranty

FINISHES

- US1 - Flat Black
- US3 - Bright Brass
- US5 - Antique Brass
- US15 - Satin Nickel
- US15A - Antique Nickel
- US11P - Venetian Bronze
- US26D - Satin Chrome
- US26 - Polished Chrome
- **Refer to pricelist for stock finishes**

FUNCTIONS

00 - Entry (Turn Button)
05 - Storeroom (Vestibule)
20 - Privacy (Bed & Bath, Turn Button)
30 - Passage (Hall & Closet)
40 - Active Dummy

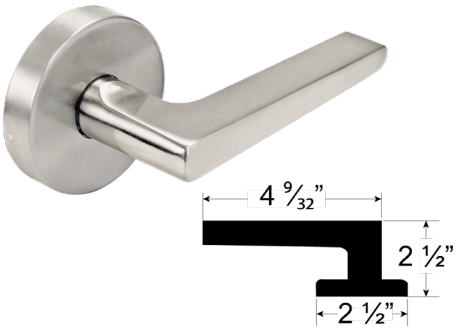
CONTEMPORARY SERIES LEVERSETS & DEADBOLTS

ADA

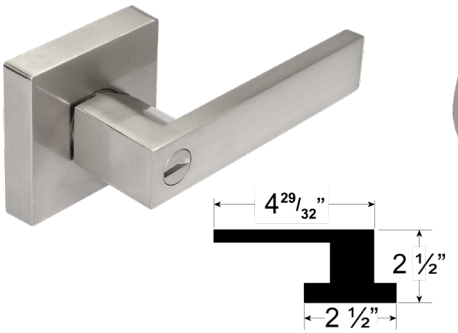
Grade 3

ANSI Standard A156.2 Leversets, ANSI Standard A156.36 Deadbolt

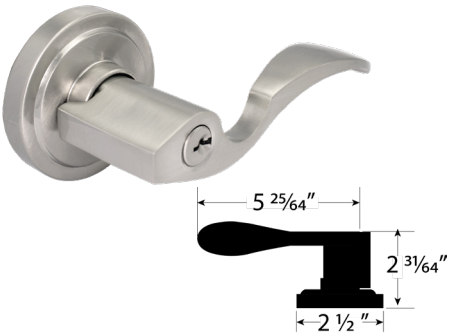
5 Year Finish Warranty
25 Year Mechanical Warranty



***ATLAS DESIGN**
"ATL" SERIES

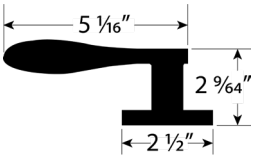


HOLLAND DESIGN
"HOL" SERIES



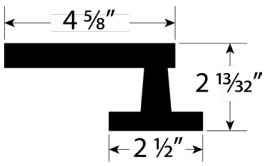
JUPITER DESIGN
"JUP" SERIES





***PHOENIX DESIGN**
"PHO" SERIES



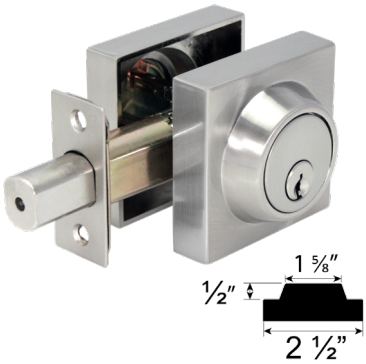


***VANITY DESIGN**
"VAN" SERIES

	00-ENTRANCE *(Turn Button)*	20-PRIVACY *(Push Button)*	30-PASSAGE	40-DUMMY
*ATL		●	●	●
HOL	●	●	●	●
JUP	●	●	●	●
*PHO	●	●	●	●
*VAN		●	●	●

****Auto-Release for immediate egress on privacy functions.***

- Kwikset 5-Pin Keyway.
  Re-keyable for Master and construction keying
- Fits 1 ⅜" to 1 ¾" Thick Doors (wood and metal doors)
- Adjustable steel 2 ⅜" or 2 ¾" backset,
  Size 1" x 2 ¼" Round Corner (Standard)
- Square Corner Option and Drive-In Latch bolt
  also Available on Special Factory Order
- Round Corner Full Lip Strike: 1 ¾" x 2 ¼", Optional T-Strike
- 1" Bore Diameter for Latch, 2 ⅛" Diameter for Lock Housing
- Keyed Entry Comes with Lever / Lever for Exterior and Interior
- Easy Installation
- Available in architectural finishes
  US3 (Bright Brass), **US5** (Antique Brass), **US15** (Satin Nickel),
  US15A (Antique Nickel), **US10B** (Oil Rubbed Bronze),
  US26D (Satin Chrome), **US26** (Polished Chrome).
  Refer to price list for stock finishes.



ESQUIRE DESIGN
"ESQ" SERIES
(Non-Handed)



Inside

- Single Cylinder Deadbolt **(ESQ-101)**
  Double Cylinder Deadbolt **(ESQ-102)**
- Kwikset 5-Pin Keyway. Re-keyable for Master and construction keying
- Adjustable latch bolt 2 ⅜" or 2 ¾"
- 1" x 1 ¼", face plate round corner
- Security Strike: 1 ¾" x 2 ¼", ¼" Radius
- Available in architechtural finishes **US3**, **US5**, **US15**, **US15A**, **US10B**, **US26D**, **US26**. ***Refer to price list for stock finishes.***

SUMMIT SERIES LEVERSETS

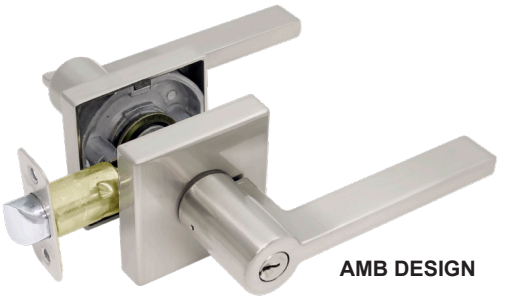
ADA

Grade 3

ANSI Standard A156.2 Leversets
with Push Button Locking Mechanism and Auto Release Feature on Privacy Function

5 Year Finish Warranty
25 Year Mechanical Warranty

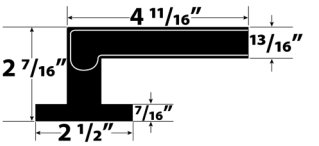
- Fits 1 ⅜" to 1 ¾" Thick Doors (wood and metal doors)
- Adjustable steel 2 ⅜" or 2 ¾" backset, Size 1" x 2 ¼" Round Corner Standard
- Square Corner Option and Drive-In Latch bolt **(4DRIVP2-2)** also available on Special Factory Order
- Round Corner Full Lip Strike: 1 ¾" x 2 ¼", Optional T-Strike
- 1" Bore Diameter for Latch, 2 ⅛" Diameter for Lock Housing
- Easy Installation
- Available in architectural finishes **US1** (Black), **US3** (Bright Brass), **US5** (Antique Brass), **US15** (Satin Nickel), **US15A** (Antique Nickel), **US10B** (Oil Rubbed Bronze), **US26D** (Satin Chrome), **US26** (Polished Chrome). ***Refer to price list for stock finishes.***



AMB DESIGN

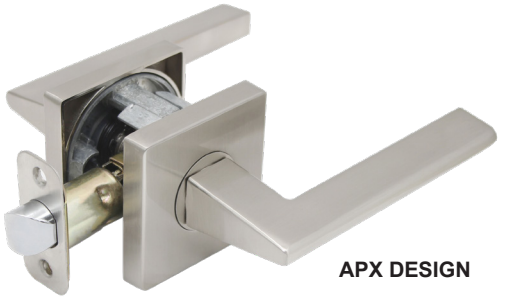


AMB-R DESIGN



AMBER "AMB" SERIES *(Non-Handed)*

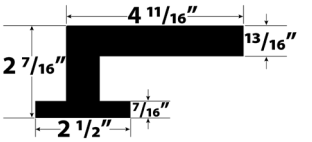
- **Functions:**
  00 - Entrance (**Turn Button**), 20 - Privacy (Push Button),
  30 - Passage (Hall and Closet), 40 - Dummy
- Tubular body, **Concealed screws**
- Kwikset 5-Pin Keyway.
  Re-keyable for Master and construction keying
- Square Rose is Standard. Round Rose option in Privacy, Passage, and Dummy functions only.



APX DESIGN

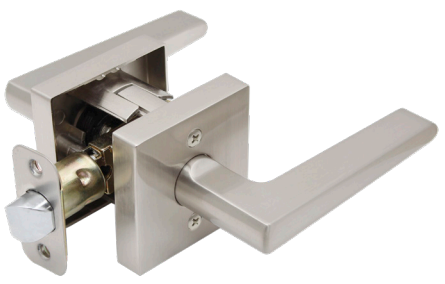


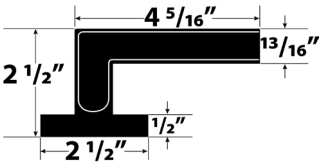
APX-R DESIGN



APEX "APX" SERIES *(Non- Handed)*

- **Functions:**
  20 - Privacy (Push Button),
  30 - Passage (Hall and Closet), 40 - Dummy
- Tubular body, **Concealed screws**
- Square Rose is Standard. Round Rose option in Privacy, Passage, and Dummy functions only.





ARGO "ARG" SERIES
(Non- Handed)

- **Functions:**
  20 - Privacy (Push Button),
  30 - Passage (Hall and Closet),
  40 - Dummy
- Tubular body, **Exposed screws**
- Square Rose is Standard

LEGACY SERIES LEVERSETS
WITH PUSH BUTTON LOCKING MECHANISM

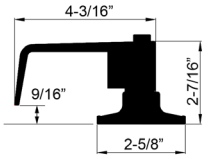
MEETS *The Buy American Act*

OPTIONAL UL LATCH

ADA

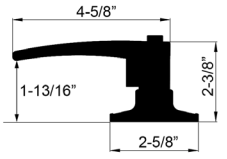


CABERNET "CAB" SERIES



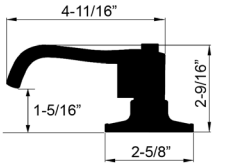


ZULATTI "ZUL" SERIES



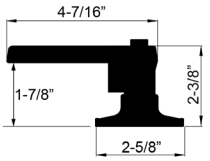


DUCATI "DUC" SERIES



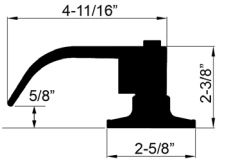


VIARGENTO "VIA" SERIES (HANDED)



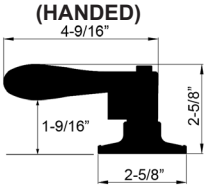


DENMARK "DEN" SERIES





NAPA "NAP" SERIES (HANDED)



FEATURES & SPECIFICATIONS

- Meets ADA requirements. Specially designed for Barrier Free Applications
- Keyed entry with lever / lever for exterior & interior
- Kwikset keyway. Re-keyable for master and construction keying
- Weiser and Schlage "C" keyway available
- Brass and stainless steel trims. Levers are plated
- **Handed, Reversible levers for Napa & Viargento Series Only**
- **Screw Guiding Posts for easy screw alignment and tightening making installation fast and easy**
- **Push button release on entrance & privacy from inside by turning lever**
- **2 ⅜" or 2 ¾" 4-way adjustable backset, size 1" x 2 ¼" round corner standard, convertible to drive in latch.**
  Square corner face plate and 5" round corner backsets optional
- Optional 3 Hour Fire Rated UL Listed Latch **(ULLGEN Series)**
- ANSI Standard A156.2 Grade 3
- Fits 1 ⅜" to 1 ¾" wood or metal doors
- Round corner full lip strike is standard

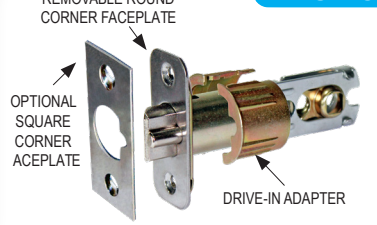
FINISHES

- US15 - Satin Nickel
- US11P - Venetian Bronze
- US3 - Polished Brass
- US5 - Antique Brass
- US26D - Satin Chrome
- US26 - Polished Chrome
- US15A - Antique Nickel
- **Refer to price list for stock finishes**
- Other finishes available upon request based on quantity with factory lead time

FUNCTIONS

00 - Entry (Push Button)
20 - Privacy (Bed & Bath, Push Button)
30 - Passage (Hall & Closet)
40 - Dummy
05 - Storeroom (Vestibule)

SPECIAL FEATURES



4-WAY LATCH



SCREW GUIDE POST



PUSH BUTTON

CLIPPER SERIES DEADBOLTS
TO BE USED WITH LEGACY SERIES LEVERSETS

MEETS *The Buy American Act*

OPTIONAL UL LATCH

ADA



CLP500
SINGLE CYLINDER DEADBOLT



CLP400
DOUBLE CYLINDER DEADBOLT



CLP801
ONE-SIDED DEADBOLT WITH PLATE



CLP701
ONE-SIDED DEADBOLT

FEATURES & SPECIFICATIONS

- ANSI Standard A156.36, Grade 3
- Meets ADA Requirements. Specially Designed for Barrier Free Applications
- Kwikset Keyway. Re-keyable for Master and Construction Keying
- Weiser and Schlage “C” Keyway Available
- Optional 3 Hour Fire Rated UL Listed Latch **(ULLGEN Series)**
- Reversible for Right and Left Handed Doors
- Full 1” Throw Deadbolt with Hardened Steel Pin to Prevent Saw Cutting
- **2 ⅜” or 2 ¾” 4-way Adjustable Backset, Size 1” x 2 ¼” Round Corner Standard, Convertible to Drive-In latch. Square Corner Face Plate and 5” Round Corner Backsets Optional**
- All Metal Body & Cylinder Construction
- Fits 1 ⅜” to 1 ¾” wood or metal doors
- 1” x 2 ¼” Square Corner Strike Standard, Optional Round Corner Full Lip Strike. Optional 1 ¼” x 3 ⅝” Security Strike with 3” Screws also Available
- Easy installation

FINISHES

- US15 - Satin Nickel
- US11P - Venetian Bronze
- US3 - Polished Brass
- US5 - Antique Brass
- US26D - Satin Chrome
- US26 - Polished Chrome
- US15A - Antique Nickel
- **Refer to price list for stock finishes**
- Other finishes available upon request based on quantity with factory lead time

SPECIAL FEATURE



4-WAY ADJUSTABLE BACKSET

ITALIA SERIES

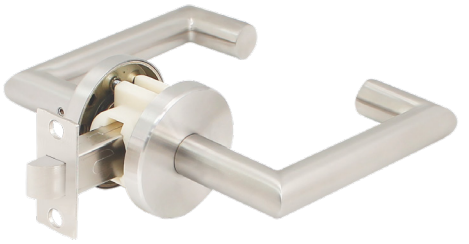
STAINLESS STEEL LEVERSETS, KNOBSETS, ESCUTCHEON, DEADBOLTS
ANSI STANDARD A156.2, GRADE 3 (Optional Grade 2)
LEVERS / KNOBS COMPATIBLE WITH NM SERIES GRADE 1 MORTISE LOCKS



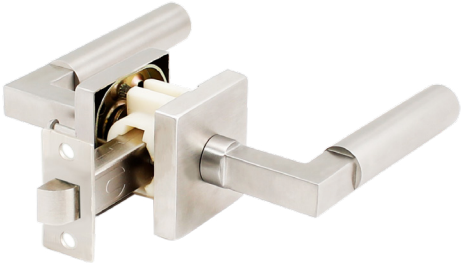
ESCUTCHEON



MORTISE LOCK



LEVERSETS

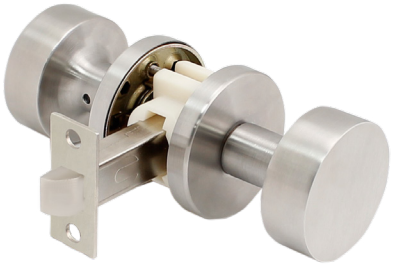


DEADBOLTS

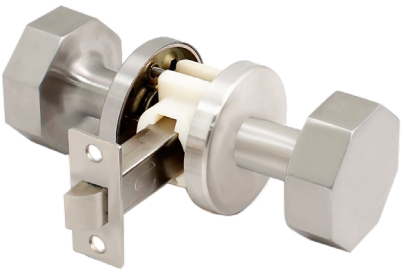




KNOBSETS







ITALIA SERIES

DESIGN YOUR OWN 95
LEVER DESIGN 96
LEVER / KNOB DESIGN 97
ROSE DESIGN 97
HOW TO ORDER 97
TUBULAR LATCH SET 98
TUBULAR ENTRY SET 98
ROSE AND ESCUTCHEON DESIGN 99
DOOR PREPARATION 99
NM SERIES MORTISE LOCK 100
LATCHES 101
STRIKES 101
DEADBOLTS 102
DOOR PREPARATION DEADBOLT 102
EXPLODED DIAGRAM - ROSE WITH TUBULAR LATCH 103
EXPLODED DIAGRAM - ROSE WITH NM SERIES MORTISE LOCK 103
EXPLODED DIAGRAM - ESCUTCHEON WITH TUBULAR LATCH 104
EXPLODED DIAGRAM - SINGLE CYLINDER WITH DEADBOLT 105
EXPLODED DIAGRAM - DOUBLE CYLINDER WITH DEADBOLT 105
CARE AND MAINTENANCE 106
PRODUCT WARRANTY 106

ITALIA SERIES
DESIGN YOUR OWN

DESIGN YOUR OWN

1. CHOOSE A ROSE TYPE
2. SELECT LEVER OR KNOB
3. SPECIFY A FUNCTION
4. SPECIFY LATCH

ROSE Designs

ESCUTCHEON



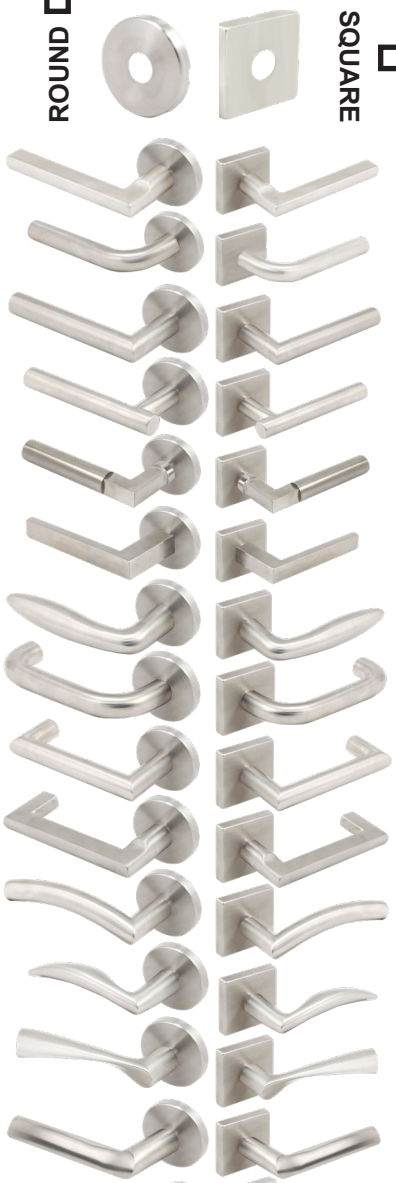
FUNCTIONS



ENTRANCE
PRIVACY
PASSAGE
DUMMY

ROUND
SQUARE

LEVERS



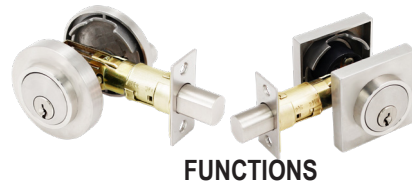
KNOBS



LEVERS
KNOBS

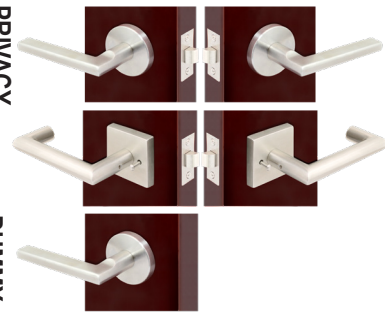
DEADBOLTS

SINGLE / DOUBLE CYLINDERS



FUNCTIONS

PRIVACY
PASSAGE
DUMMY



LATCHES

BACKSETS

2 ¾ (70)



GRADE 2 ADJUSTABLE



2 ⅜ (60)

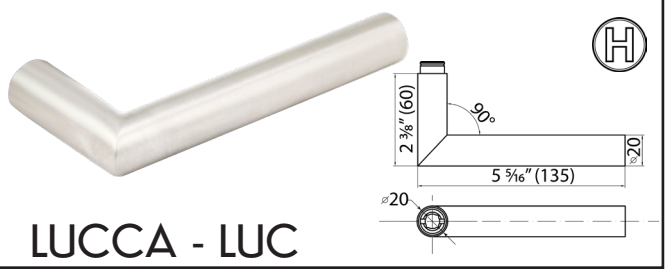


MORTISE

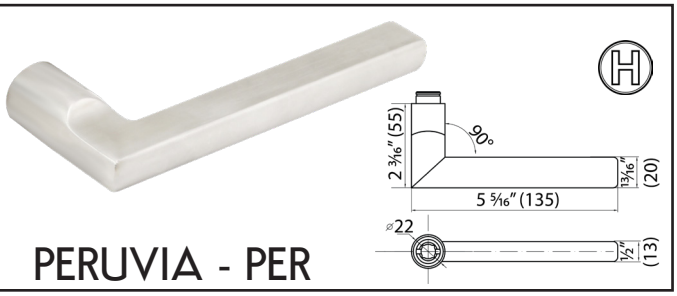


HANDED - HANDED (H) - HOLLOW (S) - SOLID

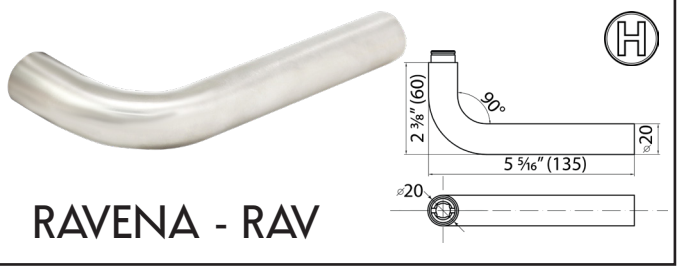
LUCCA - LUC



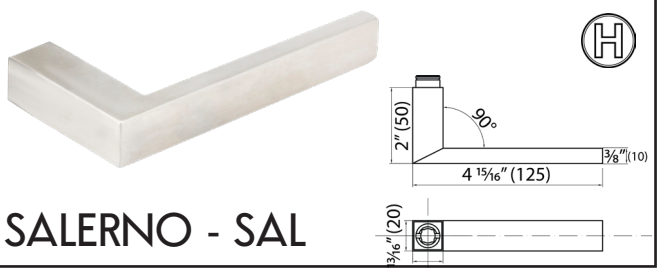
PERUVIA - PER



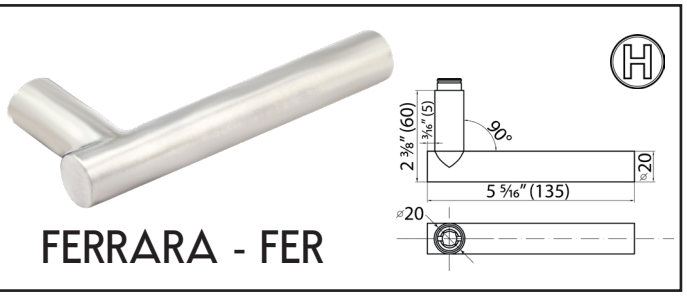
RAVENA - RAV



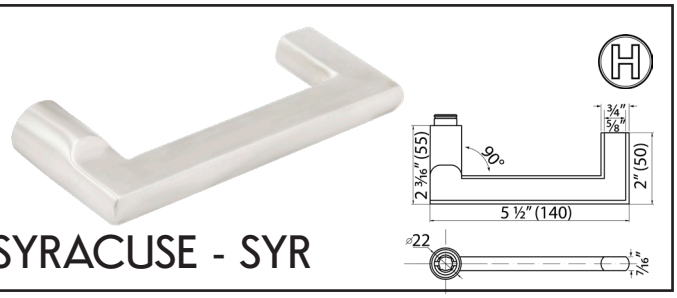
SALERNO - SAL



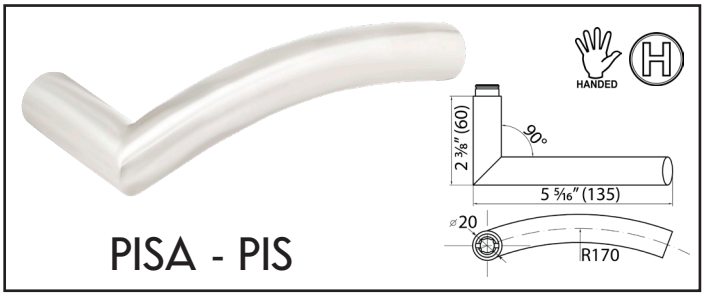
FERRARA - FER



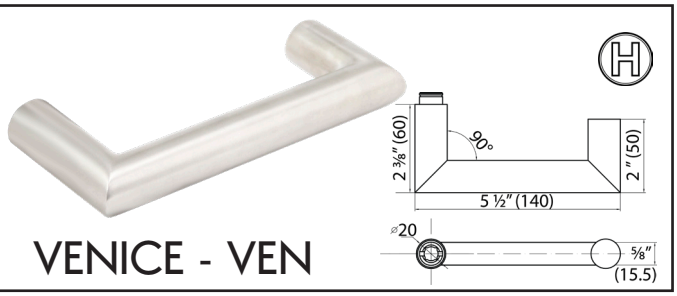
SYRACUSE - SYR



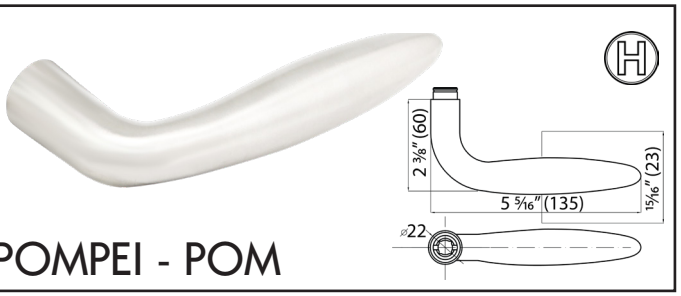
PISA - PIS



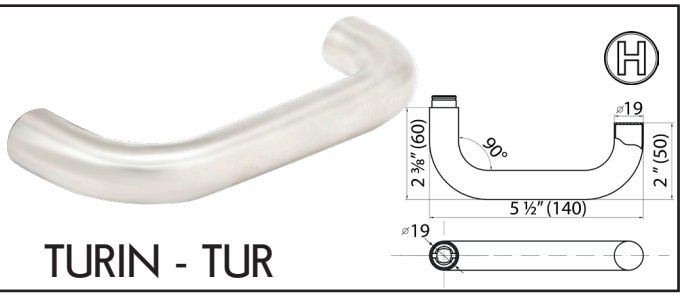
VENICE - VEN



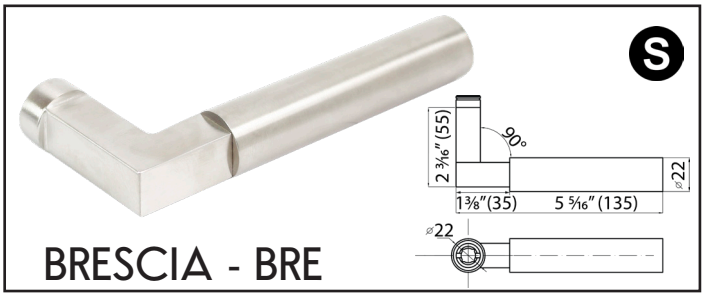
POMPEI - POM



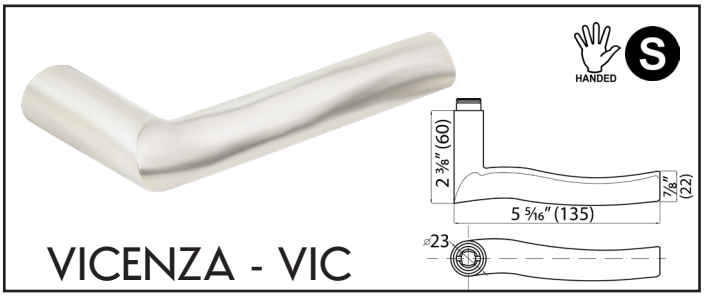
TURIN - TUR



BRESCIA - BRE



VICENZA - VIC

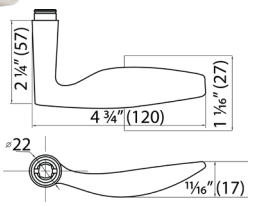


LEVER / KNOB DESIGNS

HANDED - HANDED (H) - HOLLOW S - SOLID

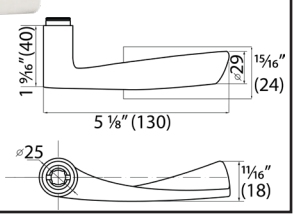
SIENA - SIE





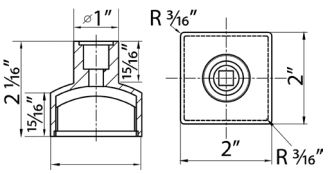
LIVORNO - LIV





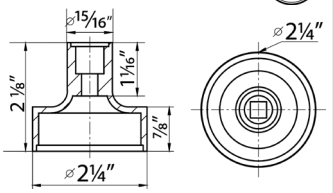
PADERNO - PAD





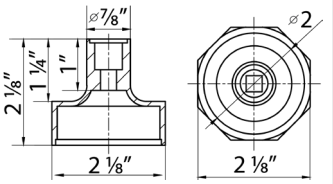
PALERMO - PAL





PAVIA - PAV

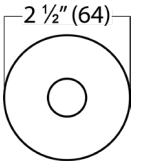


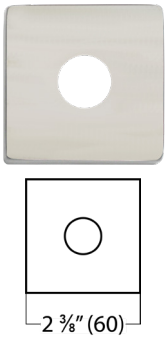


GIRO - G



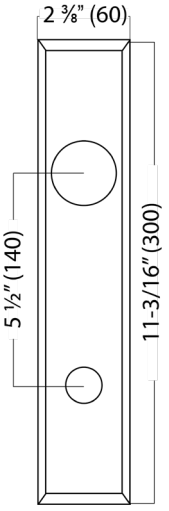
QUADRO - Q





SCUDO - S





HOW TO ORDER

NOTE:
Standard Backset is 2 3/8"

Entrance Function is only available for SCUDO rose design (escutcheon).

Privacy Function for SCUDO rose specify handing.

HOW TO ORDER

DDD-FFB-R[H] US32[X]

DESIGN (ddd)	FUNCTION (FF)	BACKSET (b)	ROSE (R)	HANDING (H)	FINISH (US32X)
See Lever / Knob Designs	00 - Entrance 20 - Privacy 30 - Passage 40 - Single Dummy	8 - 2 3/8" 4 - 2 3/4" 2 - Grade 2 (4-way) 2H - Gr 2 (L/R) 2V - Gr 2 (LHR/RHR)	G - Giro Q - Quadro S - Scudo	L - Left Hand R - Right Hand	US32D - Satin SS US32 - Polished SS US1 - Black

For Example: To order Privacy function Left Handed, SIENA lever design with QUADRO style rose and Grade 2 4-way backset in US32D finish:

ORDER PART# : SIE-202-QL US32D

TUBULAR LATCH SET

APPLICATION

For residential and commercial interior doors with privacy, passage and dummy function

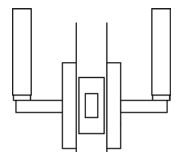
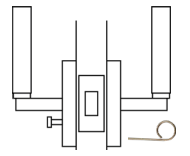
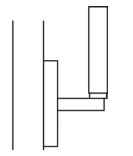
MATERIAL

Stainless Steel Levers, Knobs and Rose

SPECIFICATIONS

- Door thickness: 1 ⅜" (35) to 1 ¾" (44)
- Latch Backset: 2 ⅜" (60) standard, 2 ¾" (70) optional
- Grade 2 Latch: CTG2 Adjustable 2 ⅜" (60) and 2 ¾" (70) (optional)
- Handing: Most lever designs are non-handed, Handed designs are marked accordingly. Specify handing upon ordering
- Latch Faceplate: 1" x 2 ¼" (25 x 57) square corner
- Emergency Pin: Available as standard for privacy function
- Strike: **FLS** Full Lip Strike 1" x 2 ¼", ¼" round corner (standard)
  TS T-Strike 1 ⅛" x 2" square corner (standard)
  ASA478 US32D ANSI Strike 4 ⅞" x 1 ¼" (optional)

FUNCTION: NON-KEYED

	**Passage** Inside and Outside levers always unlocked
	**Privacy** Privacy pin from inside, locks the lever. Turning inside lever releases pin or by emergency release pin
	**Dummy** Left or right lever are always inactive







TUBULAR ENTRY SET

APPLICATION

For residential and commercial exterior and interior doors with entrance, privacy, passage and dummy function

MATERIAL

Stainless Steel Levers, Knobs and Escutcheons

SPECIFICATIONS

- Door thickness: 1 9/16" (40) - 2 (50)
- Latch Backset: 2 ⅜" (60) standard
  2 ¾" (70) optional
- Handing: Field reversible for passage and privacy function
- Latch Faceplate: 1" x 2 ¼" (25 x 57) square corner
- Strike: **FLS** Full Lip Strike 1" x 2 ¼", ¼" round corner (standard)
  TS T-Strike 1 ⅛" x 2" square corner (standard)
  ASA478 US32D ANSI Strike 4 ⅞" x 1 ¼" (optional)

Entrance Function

- Cylinder and Keys: Schlage C Keyway
  Cylinder 5-pin with 2 keys
  Keying service available
- Deadbolt:
  Latch Bolt: Grade 1, 4-way Drive-In, Brass bolt
  Adjustable 2 ⅜" (60) and 2 ¾" (70)
  Deadbolt Strike: 1 ⅛" x 2 ¾" (29 x 70) square corner standard

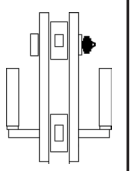
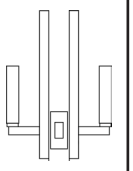
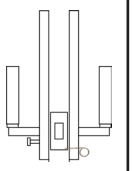
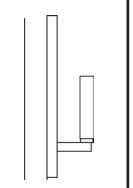
Privacy Function

- Emergency Pin: Available as standard for privacy function

Grade 2 Latch Upgrade

- Available for Entrance, Privacy and Passage functions of lever / knob

FUNCTION: KEYED AND NON-KEYED

	**Entrance** Key outside and thumb-turn inside locks or unlocks cylinder. Inside and outside levers always unlocked
	**Passage** Inside and Outside levers always unlocked
	**Privacy** Privacy pin from inside, locks the lever. Turning inside lever releases pin or by emergency release pin outside. ***Specify Handing*** when ordering.
	**Dummy** Left or right lever are always inactive





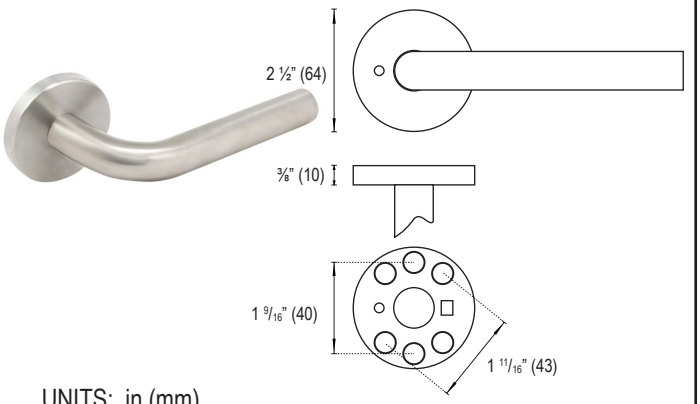




ROSE AND ESCUTCHEON DESIGN

GIRO ROSE

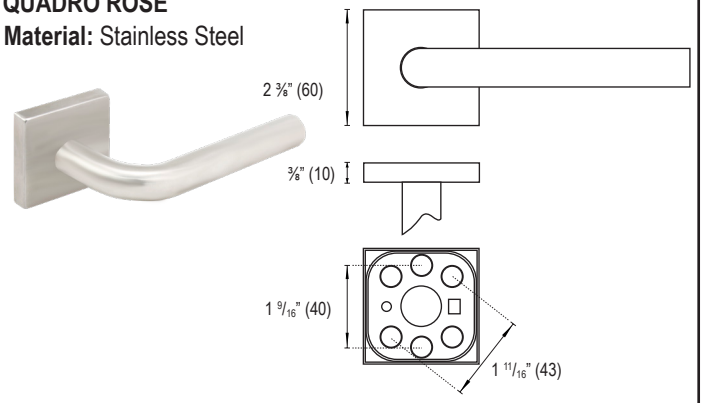
Material: Stainless Steel



UNITS: in (mm)

QUADRO ROSE

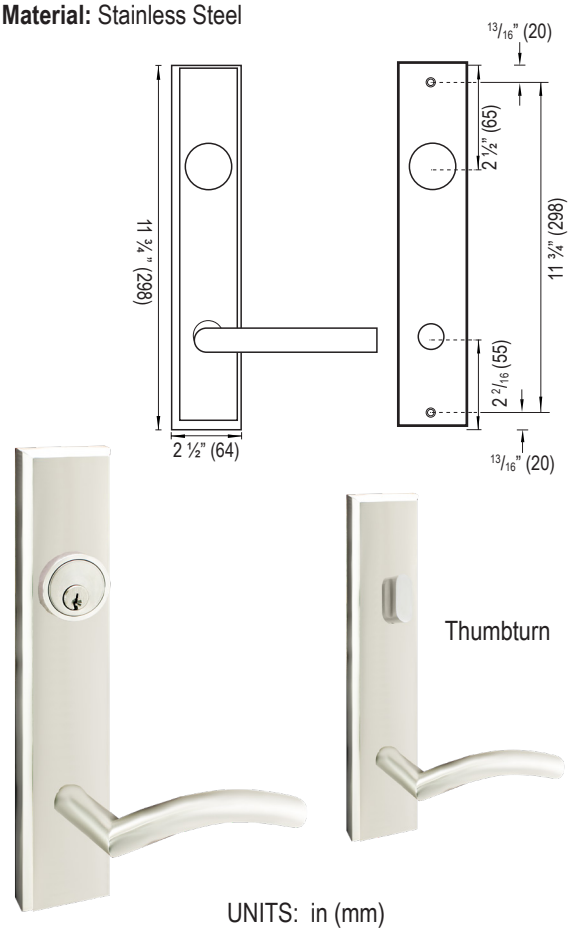
Material: Stainless Steel



UNITS: in (mm)

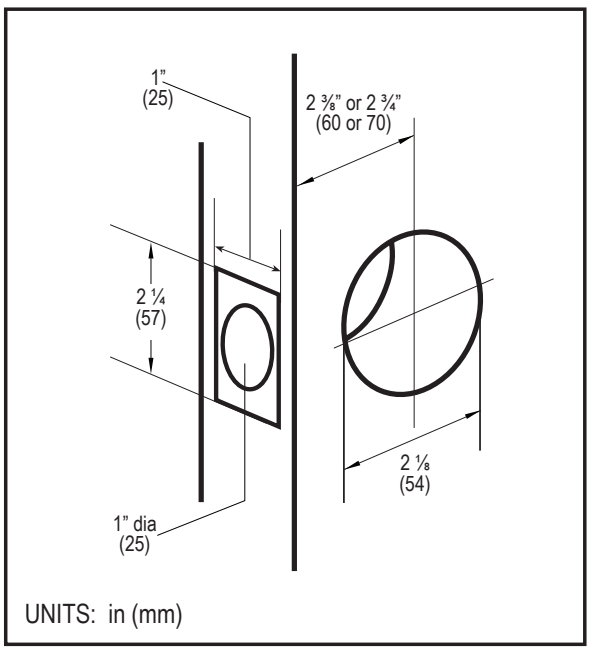
SCUDO ESCUTCHEON

Material: Stainless Steel



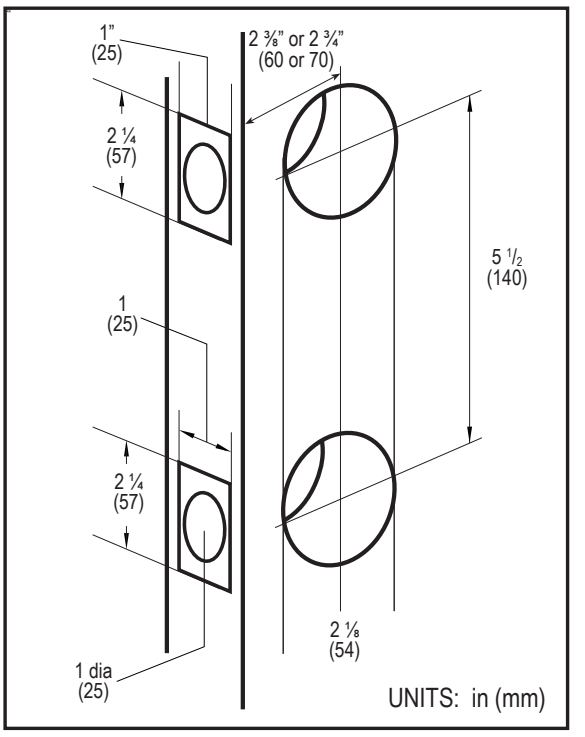
UNITS: in (mm)

DOOR PREPARATION



UNITS: in (mm)

ROSE

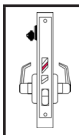
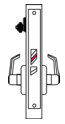
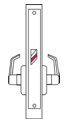
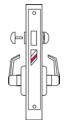
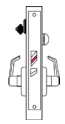
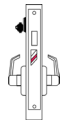
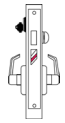


UNITS: in (mm)

ESCUTCHEON

CAL-ROYAL PRODUCTS, INC. USA



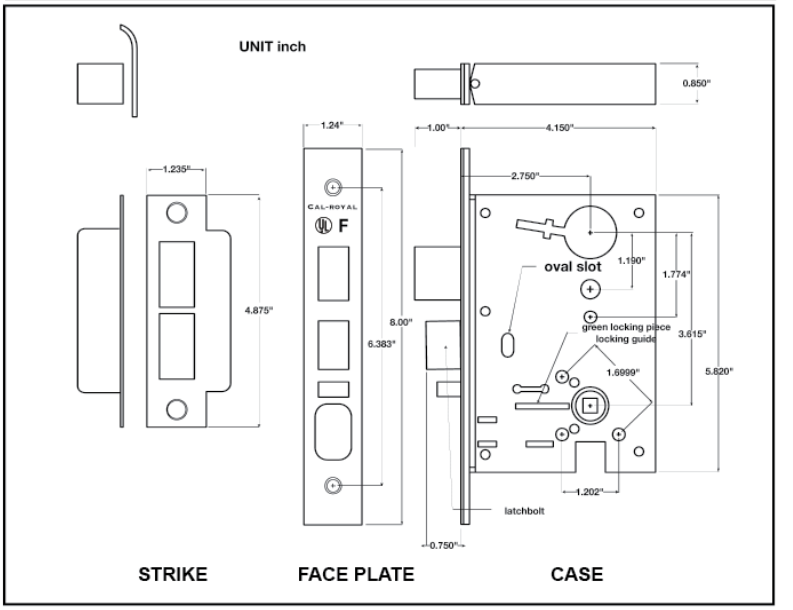
	MODEL	ANSI	AVAILABLE FUNCTIONS
	NM8050	**F04**	Office / Entrance
	NM8070	**F05**	Classroom
	NM8080	**F07**	Storeroom
	NM8453	**F20**	Entrance
	NM8010	**F01**	Passage
	NM8440	**F19**	Privacy with Deadbolt
	NM8456	**F13**	Corridor / Exit
	NM8465	**---**	Closet / Storeroom with Deadbolt
	NM8473	**F21**	Dormitory / Bedroom

Other functions available with factory lead time and subject to minimum order

NM SERIES GRADE 1 MORTISE LOCK

FEATURES & SPECIFICATIONS

For Doors.....	1 ¼"
Backset.....	2 ¾"
Lockcase.....	Heavy gauge zinc chromate steel
Front.....	Heavy gauge steel 8" x 1 ¼" x $^{3}/_{32}$". Accommodates flat doors and doors beveled ⅛" in 2"
Armored Front.....	Wrought brass attached by machine screws to lock case front
Deadbolt.....	1" throw, brass chrome-plated with hardened steel rollers
Guard-bolt.....	Extruded brass, chrome plated
Stop-works.....	Rocker type, brass, chrome-plated
Strikes.....	Brass, non-handed curve strike 4 ⅞" x ¼". Curved-up strike available upon request
Handing.....	Handed. Easily field-reversible
Trim.....	See Lever / Knob Designs, Giro / Quadro rose pages
Cylinder.....	As specified
Keyway.....	As specified
Finishes.....	As specified
UL Listing.....	UL Listed "A" Label (3 hours), for use on fire doors, single or pair of doors. "F" mark stamped on strike
ANSI.....	Lock body conforms to Federal specification Type 86; and to all dimensional and operational performances of ANSI A156.13, Series 1000 Grade 1, exceeds 1,000,000 cycles



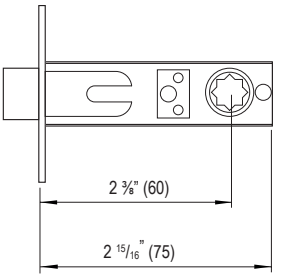
HOW TO ORDER:

MODEL NUMBER	+ HANDING	+ LEVER DESIGN	+ ROSE DESIGN	+ FINISH

REFER TO PAGES 96-97 FOR ROSE AND LEVER DESIGNS

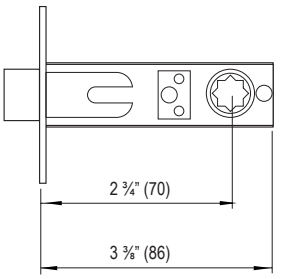
LATCHES





CTPAS238 *(Passage)*
CTPRI238 *(Privacy)*
45 Degree Latch Retraction
(Grade 3)
Backset: 2 ⅜" (60)
Function: Passage, Privacy
Faceplate: 1" x 2 ¼" (25 x 57)
Material: Stainless Steel

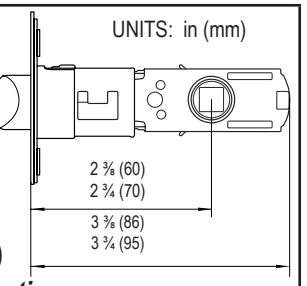




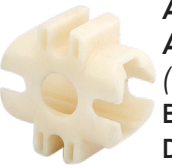
CTPAS234 *(Passage)*
CTPRI234 *(Privacy)*
45 Degree Latch Retraction
(Grade 3)
Backset: 2 ¾" (70)
Function: Passage, Privacy
Faceplate: 1" x 2 ¼" (25 x 57)
Material: Stainless Steel

UNITS: in (mm)





G2PAS *(Passage)*
G2PRILR *(Privacy LR)*
G2PRIIO *(Privacy LHR)*
45 Degree Latch Retraction
(Grade 2)
Backset: Adjustable 2 ⅜" (60) and 2 ¾" (70)
Function: Passage, Privacy
Faceplate: 1" x 2 ¼", Stainless Steel
Material: Stainless Steel Latch



APS PVC
Anti-Pry Shield (PVC)
(Optional)
Backset: 2 ⅜" (60) standard, 2 ¾" (70) optional
Door Thickness: 1 ⅜" (35) and 1 ¾" (44)
Material: Heat Resistant PVC

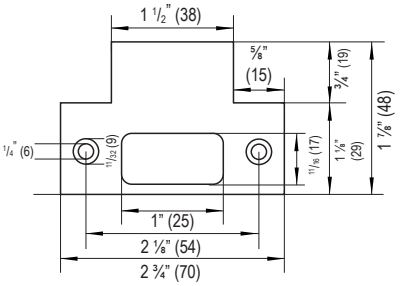


APS ZINC
Anti-Pry Shield (Zinc Alloy)
(Optional)
Backset: 2 ⅜" (60) standard, 2 ¾" (70) optional
Door Thickness: 1 ⅜" (35) and 1 ¾" (44)
Material: Zinc Alloy

STRIKES

All latches come with both T-Strike and Full-lip Strike standard

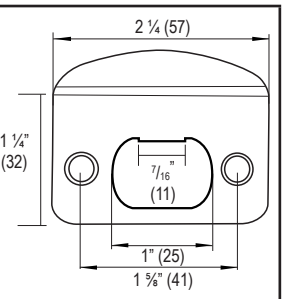




TS
T-Strike
1 ⅛" x 2 ¾", with lip 1 ½" x ½"

UNITS: in (mm)



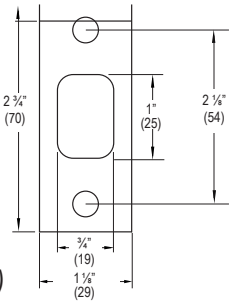


FLS
Full-lip Strike ¼" Corner
1 ¾" x 2 ¼"

UNITS: in (mm)



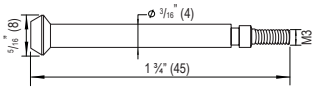




T2STRK
Deadbolt Strike ⅛" Corner
(with reinforcement plate and dust box)
1 ⅛" x 2 ¾" (29 x 70)

UNITS: in (mm)





CTPRIPIN
Privacy Pin
Comes with all privacy latches

UNITS: in (mm)



ALLENKEY
Allen Key
Comes with all locksets



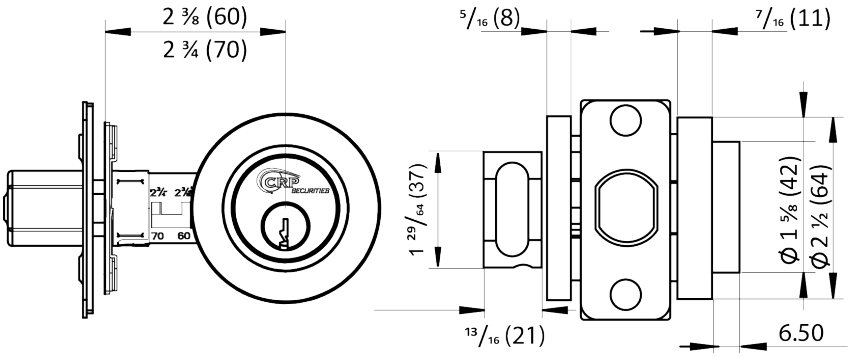
EMRELPIN
Emergency Release Pin
Comes with all privacy latches

RND-500 (round rose)
SQR-500 (square rose)
Single Cylinder Deadbolt





Thumbturn



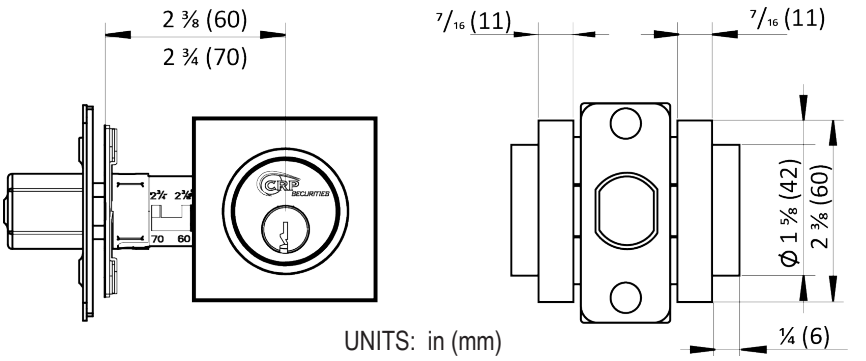
UNITS: in (mm)

RND-400 (round rose)
SQR-400 (square rose)
Double Cylinder Deadbolt





Thumbturn



UNITS: in (mm)

APPLICATION

For residential and commercial exterior and interior doors

MATERIAL

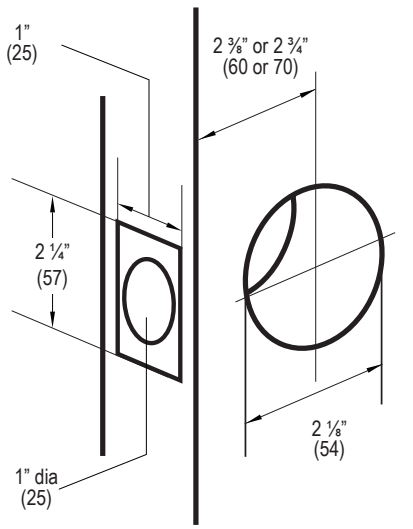
Stainless Steel

SPECIFICATIONS

- Latch Bolt: Grade 1, 4-way Drive-In, Brass, Satin Nickel bolt
- Latch Backset: Adjustable 2 ⅜ (60) and 2 ¾ (70)
- Handing: Non-Handed
- Latch Faceplate: 1" x 2 ¼" (25 x 57)
- Deadbolt Strike: 1 ⅛" x 2 ¾" (29 x 70) square corner (standard)
- Security Strike: 1 ⅛" x 2 ¾" x 3/32" (29 x 70 x 2) (standard)
- Cylinder and Keys: Schlage C Keyway, Cylinder 5-pin with 2 keys
  Keying service available

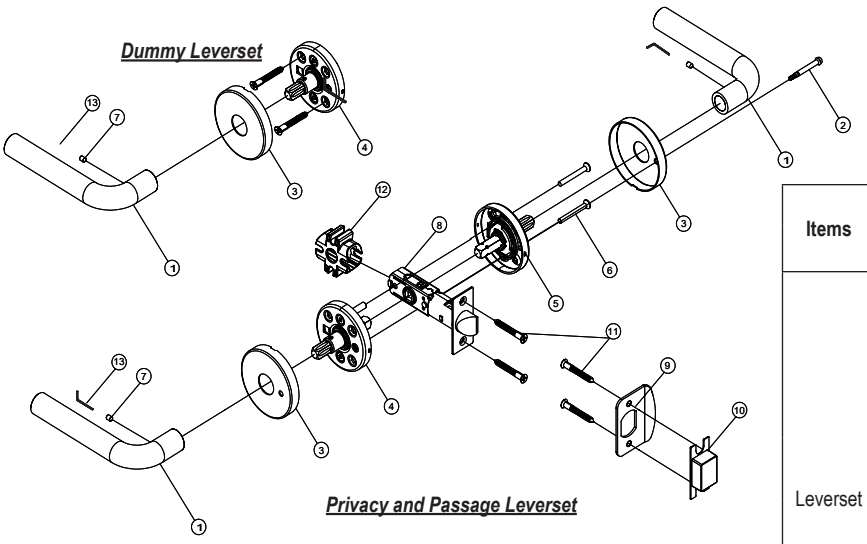
MODEL	DESCRIPTION	DOOR THICKNESS
RND-508	SINGLE CYLINDER ROUND ROSE	1 ⅜" (35) - 1 ¾" (45)
RND-504		1 ¾" (45) - 2" (50)
SQR-508	SINGLE CYLINDER SQUARE ROSE	1 ⅜" (35) - 1 ¾" (45)
SQR-504		1 ¾" (45) - 2" (50)
RND-404	DOUBLE CYLINDER ROUND ROSE	1 ¾" (45) - 2" (50)
SQR-404	DOUBLE CYLINDER SQUARE ROSE	1 ¾" (45) - 2" (50)

DOOR PREPARATION



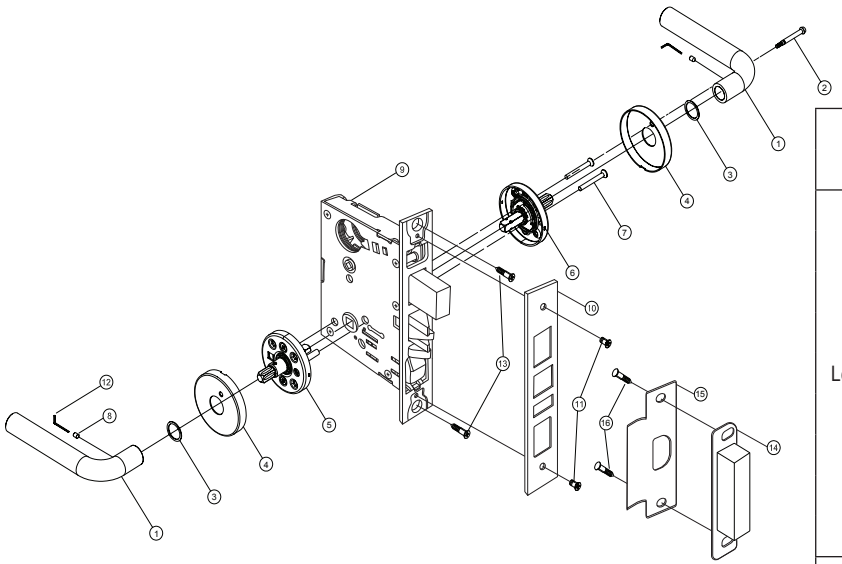
UNITS: in (mm)

EXPLODED DIAGRAM ROSE WITH TUBULAR LATCH



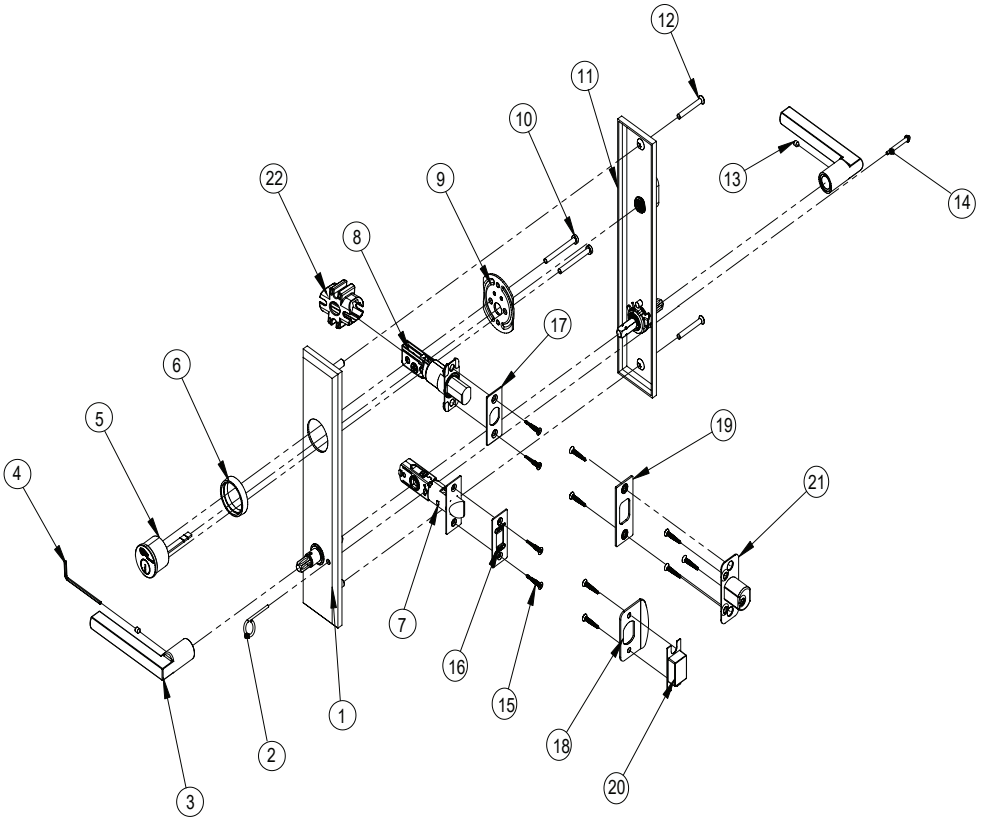
Items	No.	Parts Description	Function		
			Privacy	Passage	Dummy
Leverset	1	Outside / Inside Lever / Knob	2 ea	2 ea	1 ea
	2	Privacy Pin	1 ea	—	—
	3	Giro / Quadro Outside / Inside Rose Cover	2 ea	2 ea	1 ea
	4	Giro / Quadro Outside Inner Rose	1 ea	1 ea	—
	5	Giro / Quadro Inside Inner Rose	1 ea	1 ea	1 ea
	6	8U32*40 Screw	2 ea	2 ea	—
	7	M5x6 Set Screws	2 ea	2 ea	1 ea
	-	4*25 Wood Screw	—	—	4 ea
	13	Hex Key	1 ea	1 ea	1 ea
Locks	8	Tubular Latch	1 ea	1 ea	—
	9	Tubular Latch Striking Plate	1 ea	1 ea	—
	10	Tubular Latch Dust Box	1 ea	1 ea	—
	11	8U32x25 Combination Screws / 3.5x20 Wood Screws	4 ea	4 ea	—
	12	Anti-Pry Shield	1 ea	1 ea	—

EXPLODED DIAGRAM ROSE WITH NM SERIES MORTISE LOCKS



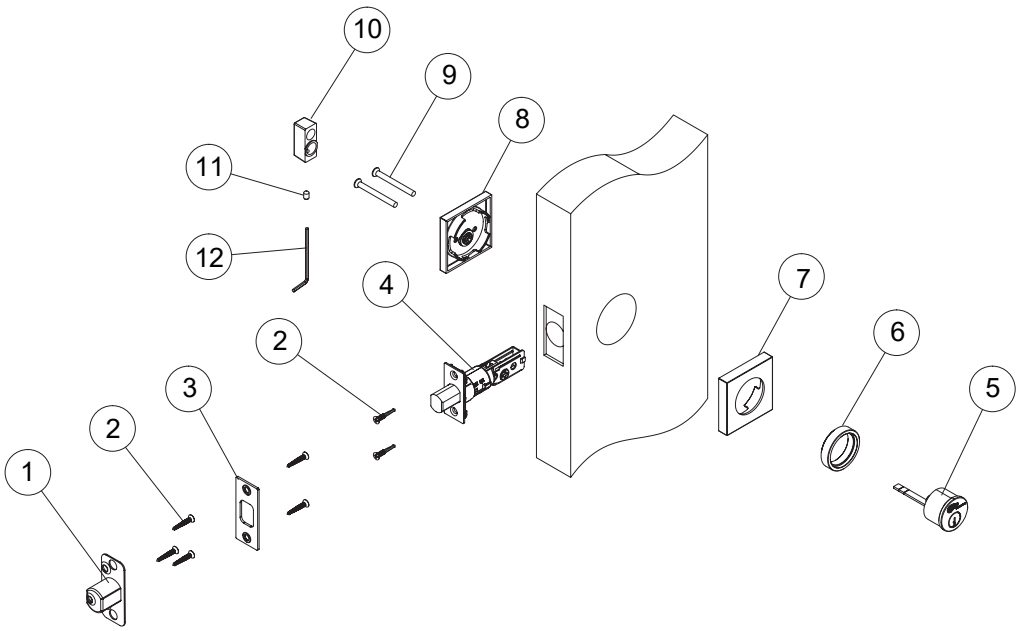
Items	No.	Parts Description	Function
			Moritse
Leverset	1	Outside / Inside Lever / Knob	2 ea
	2	Privacy Pin	1 ea
	3	Giro / Quadro Outside / Inside Rose Cover	2 ea
	4	Giro / Quadro Outside Inner Rose	1 ea
	5	Giro / Quadro Inside Inner Rose	1 ea
	6	8U32*40 Screw	2 ea
	7	M5x6 Set Screws	2 ea
	-	4*25 Wood Screw	—
	12	Hex Key	1 ea
	9	Mortise Lock body	1 ea
	10	Mortise Lock Face Plate	1 ea
	11	Face Plate screws with Mortise Lock	2 ea
	13	Mortise Lock Body screws	2 ea

EXPLODED DIAGRAM ESCUTCHEON WITH TUBULAR LATCH



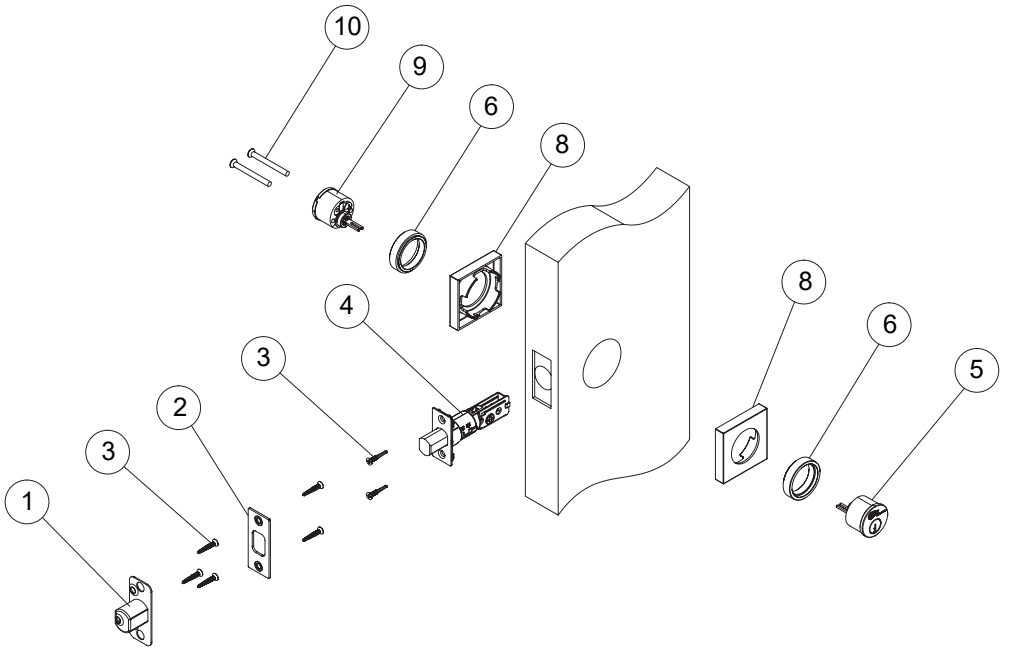
Items	No.	Parts Description	Function			
			Entrance	Privacy	Passage	Dummy
Escutcheon Parts	1	Front Plate	1 ea	1 ea	1 ea	—
	2	Privacy Push Pin Release	—	1 ea	—	—
	3	Lever	2 ea	2 ea	2 ea	1 ea
	4	Hex Key	1 ea	1 ea	1 ea	1 ea
	5	Cylinder	1 ea	—	—	—
	6	Cylinder Ring	1 ea	—	—	—
	9	Cylinder Protective Plate	1 ea	—	—	—
	10	M5 x 50 Screws	2 ea	—	—	—
	11	Back Plate	1 ea	1 ea	1 ea	1 ea
	12	M6 x 40 Screws / 5*38 Wood Screws	2 ea	2 ea	2 ea	2 ea
	13	M5x6 Set Screws	2 ea	2 ea	2 ea	1 ea
	14	Privacy Pin	—	1 ea	—	—
Locks	7	Tubular Latch	1 ea	1 ea	1 ea	—
	8	Deadbolt	1 ea	—	—	—
	15	8U32x25 Combination Screws / 3.5x20 Wood Screws	8 ea	4 ea	4 ea	—
	16	Tubular Latch Striking Plate	1 ea	1 ea	1 ea	—
	17	Deadbolt Face Plate	1 ea	1 ea	1 ea	1 ea
	18	Tabular Latch Striking Plate	1 ea	1 ea	1 ea	—
	19	Deadbolt Striking Plate	1 ea	—	—	—
	20	Tubular Latch Dust Box	1 ea	1 ea	1 ea	—
	21	Deadbolt Dust Box	1 ea	—	—	—
	22	Anti-Pry Shield	1 ea	1 ea	1 ea	—

EXPLODED DIAGRAM SINGLE CYLINDER WITH DEADBOLT



Part List
1. Deadbolt Dust Box
2. 5 x 76 Screws (2 ea)
3. Deadbolt Striking Plate
4. Deadbolt
5. Outside Cylinder w/ Tailpiece
6. Cylinder Ring
7. Outside Cylinder Escutcheon
8. Inside Deadbolt Escutcheon
9. M5 x 65 Screw (2 ea)
10. Thumbturn
11. M5 x 6 Set Screw
12. Hex Key

EXPLODED DIAGRAM DOUBLE CYLINDER WITH DEADBOLT



Part List
1. Deadbolt Dust Box
2. 5 x 76 Screws (2 ea)
3. Deadbolt Striking Plate
4. Deadbolt
5. Outside Cylinder w/ Tailpiece
6. Cylinder Ring
7. Outside Cylinder Escutcheon
8. Inside Deadbolt Escutcheon
9. Inside Cylinder w/ Tailpiece
10. M5 x 6 Set Screw

CARE AND MAINTENANCE

MAINTENANCE

All Cal-Royal Locksets were designed and manufactured to be maintenance-free under normal operating conditions and environments. Exposure to extremely heavy traffic and / or particularly dusty and dirty environmental conditions, however, may eventually cause unsatisfactory operation due to slow-moving parts or sticking cylinders. In this case, it may be necessary to clean and re-lubricate the lockset to maintain optimum performance.

Locksets

- To clean the lockset mechanism, use a non-corrosive substance or a penetrating or solvent type lubricant to loosen sticking components, then lubricate with lithium grease, silicone or teflon based lubricant
- Do not use lubricant in cylinder (oil or aerosol type)

Cylinders

- When a key becomes “sticky” in a cylinder, you may sprinkle a small amount of graphite onto the key and then insert the key inside the cylinder
- To free up sticking cylinders, lubricate with graphite or a non-oily lubricant (such as Lock-EZE)
- Do not use petroleum-based lubricants in the cylinder keyway. WD-40 or oil will collect dirt over time, and a liquid might even freeze in the lock if weather is cold enough. Graphite is the good choice, the powdered version of molybdenum disulfide would work as well
- Do not use lubricant in cylinder (oil or aerosol type)

STAINLESS STEEL - CARE & MAINTENANCE GUIDE

Stainless steel is a durable material which improves longevity and minimal wear. Exterior use, coastal areas and other corrosive environments may result in pitting, surface rust, and tarnishing.

The main difference between a stainless steel and carbon steel is the amount of chromium present. Carbon steel rusts immediately when exposed to air and moisture. It may take longer for stainless steel to corrode, but it will definitely do if not properly maintained.

We recommend cleaning with available commercial cleansing agents. Avoid using steel wool, steel brushes or similar accessories when cleaning as these harm the protective surface and rust may arise from the abrasion.

Some commercial products are also available that provides a non-stick protective coating that seals the surface, allowing for easier cleaning and maintenance like:

- EnduroShield Stainless Steel Coating
- Sprayon Stainless Steel Protective Coating
- ProtectaClear, by Everbrite

NOTE: Cal-Royal does not sell these products.

PRODUCT WARRANTY

MERCHANDISE WARRANTY

Goods are warranted against defects in manufacture for one year. The company makes no other warranty, and all implied warranties including any warranty of merchantability or fitness for a particular purpose are limited to the duration of the expressed warranty period as set forth above.

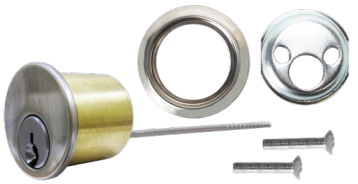
The company’s maximum liability hereunder is limited to the purchase price of the products, in no event shall the company be liable for any consequential, indirect, incidental or special damages of any nature arising from the sale or use of this product, whether in contract, tort, strict liability or otherwise.

Products will not be accepted for repair or replacement under this warranty unless we have given prior authorization for their return. Upon receipt of products returned for repair or replacement we will determine whether products qualify for repair or replacement under this warranty; if they do not, we will notify our customer of estimated costs of repair or replacement involved and will obtain authorization prior to proceeding. We have no liability to pay any costs of repair performed by anyone other than us, unless in each instance we have given prior written approval of such repair in which case we will pay what we consider to be the reasonable cost thereof.

Replacement Cylinders

Features:

- Made to Original Manufacturers' Keying Specifications
- Can be keyed with original pins
- All Cylinders drilled for 6-Pins
- Packed with appropriate accessories

KEY-IN-KNOB / LEVER & DEADBOLT CYLINDER (Packed with tailpiece assortment pack)				
ILLUSTRATION	ITEM#	DESCRIPTION	KEYED	FINISH
	KKARA-4	6-Pin Arrow "A"	5-Pin	US26D
	KKC59-4	6-Pin Corbin 60 Russwin 59	5-Pin	
	KKCL4-4	6-Pin Corbin L1 thru L4	6-Pin	
	KKKW5-4	6-Pin Kwikset	5-Pin	
	KKR-D1-4	6-Pin Russwin D-1 thru 4	6-Pin	
	KKSCC-4	6-Pin Schlage "C"	6-Pin	
	KKSCE-4	6-Pin Schlage "E"	6-Pin	
	KKSCF-4	6-Pin Schlage "F"	6-Pin	
	KKSCP-4	6-Pin Schlage C-K	5-Pin	
	KKSLA-4	6-Pin Sargent "LA" thru "LC"	6-Pin	
	KKSRA-4	6-Pin Sargent "RA"	6-Pin	
	KKWFE-4	6-Pin Weiser / Falcon "E"	5-Pin	
	KKYA8-4	6-Pin Yale 8 (E1R)	5-Pin	
	KKYGA-4	6-Pin Yale "GA"	6-Pin	
1-1/4" MORTISE CYLINDERS (Packed with Adams Rite and Yale Cams)				
	KMARA-4	6-Pin Arrow "A"	5-Pin	US26D
	KMC59-4	6-Pin Corbin 60 Russwin 59	5-Pin	
	KMCL4-4	6-Pin Corbin L1 thru L4	6-Pin	
	KMKW5-4	6-Pin Kwikset	5-Pin	
	KMRD1-4	6-Pin Russwin D-1 thru 4	6-Pin	
	KMSCC-4	6-Pin Schlage "C"	6-Pin	
	KMSCE-4	6-Pin Schlage "E"	6-Pin	
	KMSCF-4	6-Pin Schlage "F"	6-Pin	
	KMSCP-4	6-Pin Schlage C-K	5-Pin	
	KMSLA-4	6-Pin Sargent "LA" thru "LC"	6-Pin	
	KMSRA-4	6-Pin Sargent "RA"	6-Pin	
	KMWFE-4	6-Pin Weiser / Falcon "E"	5-Pin	
	KMYA8-4	6-Pin Yale 8 (E1R)	5-Pin	
	KMYGA-4	6-Pin Yale "GA"	6-Pin	
RIM CYLINDERS				
	KR-AR-A	Arrow "A"	5-Pin	US26D
	KR-C-59	Corbin 60 Russwin 59	5-Pin	
	KR-C-L4	Corbin L1 thru L4	6-Pin	
	KR-KW-5	Kwikset	5-Pin	
	KR-R-D1	Russwin D-1 thru 4	6-Pin	
	KR-SC-C	Schlage "C"	6-Pin	
	KR-SC-E	Schlage "E"	6-Pin	
	KR-SC-F	Schlage "F"	6-Pin	
	KR-SC-P	Schlage C-K	5-Pin	
	KR-S-LA	Sargent "LA" thru "LC"	6-Pin	
	KR-S-RA	Sargent "RA"	6-Pin	
	KR-WF-E	Weiser / Falcon "E"	5-Pin	
	KR-YA-8	Yale 8 (E1R)	5-Pin	
	KR-Y-GA	Yale "GA"	6-Pin	

6 PIN SCHLAGE "C" KEYWAY MORTISE AND RIM CYLINDERS

ILLUSTRATION	ITEM NO	DESCRIPTION	FINISH
 MCCR1814 MCCR3812	CX96RIM	6-Pin SCHLAGE "C" keyway 1 ⅛" Rim Cylinder with mounting plate & screws	US26D, US10B, 3
	AMORTCYL118	6-Pin SCHLAGE "C" Keyway Mortise Cylinder 1 ⅛" length, with Adams Rite Cam	
	AMORTCYL114	6-Pin SCHLAGE "C" Keyway Mortise Cylinder 1 ¼" length, with Adams Rite Cam	
	CMORTCYL118	6-Pin SCHLAGE "C" Keyway Mortise Cylinder 1 ⅛" length, with CLOVER LEAF cam	
	CMORTCYL114	6-Pin SCHLAGE "C" Keyway Mortise Cylinder 1 ¼" length, with CLOVER LEAF cam	
	THMBMORT100	1" Mortise Cylinder with Thumbturn	
	BLNKMORT100	1" Blank Mortise Cylinder	

6 PIN SCHLAGE "C" KEYWAY EUROPEAN PROFILE MORTISE CYLINDERS

ILLUSTRATION	ITEM NO	DESCRIPTION	FINISH
 SINGLE CYLINDER; DOUBLE CYLINDER; SINGLE CYLINDER WITH TURN; BATHROOM CYLINDER	KE-SCC-S-A	Single Cylinder 45mm Schlage "C", 6-pin rekeyable	US15
	KE-SCC-D-C	Double Cylinder 60mm Schlage "C", 6-pin rekeyable	
	KE-SCC-D-D	Double Cylinder 70mm Schlage "C", 6-pin rekeyable	
	KE-SCC-C-C	Single Cylinder with turn 60mm Schlage "C", 6-pin rekeyable	
	KE-SCC-C-D	Single Cylinder with turn 70mm Schlage "C", 6-pin rekeyable	
	KE-P-C	Bathroom Cylinder 60mm	
	KE-P-D	Bathroom Cylinder 70mm	

MORTISE CYLINDER ACCESSORIES

ILLUSTRATION	ITEM NO	DESCRIPTION	FINISH
 CGR175 MCRC-250	MCCR1814	Mortise Cylinder Compression Ring ⅛" to ¼"	US26D, US10B, 3
	MCCR3812	Mortise Cylinder Compression Ring ⅜" to ½"	
	CGR175	Cylinder Guard Ring 1 ¾" base and ½" projection with Wave Washer and Spacing Collar	US26D, US10B, US3, 4
	MCRC-250	Free-Spinning Cylinder Guard Ring ¼"	US3, 15, US26D, US10B

STANDARD MORTISE CAMS



KC-C1 ADAMS RITE	KC-C3 YALE	KC-C4 RUSSWIN	KC-C5 NM SERIES	KC-C8 SCHLAGE L	KC-C9 SARGENT	KC-S1 ADAMS RITE	KC-S3 YALE MORTISE	KC-S4 RUSSWIN	KC-S5 FALCON	KC-S6 CRP PANIC TRIM	KC-S7 SC SERIES	KC-S9 SARGENT

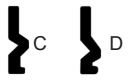
Best / Falcon 6 & 7 Pin Small Format Interchangeable Cores and Key Blanks (SFIC) Key Sections (A, B, C, D, E, F, G, H, J, K, L, M, Q, TB)

***All above Keyways in stock for immediate shipment**

Features:

- Operates on **Best / Falcon small format interchangeable cores** locksets, deadbolts, rim and mortise cylinders
- Operates on all of Cal-Royal's keyed locksets prepared for small format

Best/ Falcon A, B, C, D, E, F, G, H, J, K, L, M, Q, TB Keyways

BEST / FALCON 6 & 7 PIN SMALL FORMAT INTERCHANGEABLE CORES & KEY BLANK					
ILLUSTRATION	KEY SECTIONS	UNCOMBINATED	MASTER KEYED	KEY BLANKS	FINISH
 6 PIN MASTER KEYED	 A B	*6PUC A (6-Pins)	6PCCA-MK (6-Pins)	KBSF-A	US26D, US4
		*7PUC A (7-Pins)	7PCC A-MK (7-Pins)	KBSF-A	
		7PUC B (7-Pins)	7PCC B-MK (7-Pins)	KBSF-B	
 6 PIN UNCOMBINATED	 C D	7PUC C (7-Pins)	7PCC C-MK (7-Pins)	KBSF-C	
		7PUC D (7-Pins)	7PCC D-MK (7-Pins)	KBSF-D	
 7 PIN MASTER KEYED	 E F	7PUC E (7-Pins)	7PCC E-MK (7-Pins)	KBSF-E	
		7PUC F (7-Pins)	7PCC F-MK (7-Pins)	KBSF-F	
 7 PIN UNCOMBINATED	 G H	7PUC G (7-Pins)	7PCC G-MK (7-Pins)	KBSF-G	
		7PUC H (7-Pins)	7PCC H-MK (7-Pins)	KBSF-H	
	 J K L	7PUC J (7-Pins)	7PCC J-MK (7-Pins)	KBSF-J	
		7PUC K (7-Pins)	7PCC K-MK (7-Pins)	KBSF-K	
		7PUC L (7-Pins)	7PCC L-MK (7-Pins)	KBSF-L	
	 M Q TB	7PUC M (7-Pins)	7PCC M-MK (7-Pins)	KBSF-M	
		7PUC Q (7-Pins)	7PCC Q-MK (7-Pins)	KBSF-Q	
		7PUC TB (7-Pins)	7PCC TB-MK (7-Pins)	KBSF-TB	

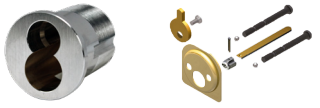
 ICPTT	6PCC-KD	Best, Falcon and Arrow Small Format. 6-Pin Interchangeable Core, Rim and Mortise Cylinder.	US26D, US4
	7PCC-KD	Best, Falcon and Arrow Small Format. 7-Pin Interchangeable Core, Rim and Mortise Cylinder.	
	ICCC	Temporary 6-Pin construction cores	
	ICCC7	Temporary 7-Pin construction cores	
	ICPTT	Plastic thumbturns available for non-secured areas	YELLOW

BEST, FALCON AND ARROW 6 / 7 PIN SMALL FORMAT INTERCHANGEABLE CORE MORTISE AND RIM CYLINDER			
	308-602	Best, Falcon and Arrow 6 / 7-Pin Small Format Interchangeable Core Rim Cylinder with mounting plate & screws	US26D, US10B, US3
	307-601	Best, Falcon and Arrow 6 / 7-Pin Small Format Interchangeable Core Mortise Cylinder with Adams Rite Cam, 1 ¼" length	
	ICH961387	Best, Falcon and Arrow 6 / 7-Pin Small Format Interchangeable Core Mortise Cylinder, Cloverleaf Cam 1 ¼" length, To be used with Cal-Royal NM Series Mortise locks	

Large Format 6 Pin Interchangeable Core and Housing (LFIC)

Features:

- Operates on all Schlage, Sargent LA-LB-LC, Russwin D1-D2-D3-D4, Yale GA large format interchangeable cores locksets, deadbolts, rim and mortise cylinders.

LARGE FORMAT 6 PIN INTERCHANGEABLE CORE CYLINDERS			
ILLUSTRATION	ITEM#	DESCRIPTION	FINISH
  KL-LAD-SA  KL-RD1-CR  KL-YGA-YA	3000 ICC	6-Pin “C” keyway combinated **SCHLAGE** large format IC core cylinder KA# 111111 with “C” key blanks	US26D, 4
	4000ICCK	6-Pin “C-K” keyway combinated **SCHLAGE** large format IC core cylinder KA# 111111 with “E” key blanks	
	5000ICE	6-Pin “E” keyway combinated **SCHLAGE** large format IC core cylinder KA# 111111 with “E” key blanks	
	1000ICC	6-Pin “C” keyway combinated **SCHLAGE** large format IC core cylinder KD and MK	
	2000 ICC	Temporary 6-Pin Construction Cores (Keyed Alike) will be charged on a separate memo billing for 6 months. On return to the factory credit will be issued.	
	KL-LAD-SA	**SARGENT** LA-LB-LC LFIC 6-Pin Uncombinated	
	KL-RD1-CR	**RUSSWIN / CORBIN** D1-D2-D3-D4 LFIC 6-Pin Uncombinated	
	KL-YGA-YA	**YALE** GA LFIC 6-Pin Uncombinated	
LARGE FORMAT 6 PIN INTERCHANGEABLE CORE MORTISE AND RIM CYLINDER HOUSING			
	6000ICMA	**SCHLAGE** Large format Interchangeable Core Mortise cylinder housing with Adams Rite Cam 1 ½” long	US26D, US10B, 3
	7000ICMC	**SCHLAGE** Large format Interchangeable Core Mortise cylinder housing with Cloverleaf Cam 1½” long. To be used with Cal-Royal NM Series Mortise locks. Can also be used with Cal-Royal SC Series Mortise locks (with CAMSCHL-7 Schlage Cam).	
	8000 ICRIM	**SCHLAGE** Large format Interchangeable Core rim cylinder housing with mounting plate and screw	
	KM-LFH-SA	**SARGENT** Large format Interchangeable Core Mortise cylinder housing with Adams Rite Cam 1 ½” long. Optional rim pack, **26D only (See Price Book page L122)**	
	KM-LFH-CR	**CORBIN/RUSSWIN** Large format Interchangeable Core Mortise cylinder housing with Adams Rite Cam 1 ½” long. Optional rim pack, **26D only (See Price Book page L122)**	
	KM-LFH-YA	**YALE** Large format Interchangeable Core Mortise cylinder housing with Adams Rite Cam 1 ½” long. Optional rim pack, **26D only (See Price Book page L122)**	

RESTRICTED KEY CONTROL USING CONVENTIONAL REPLACEMENT CYLINDERS (TIER 3)

Tier 3 Conventional Replacement Cylinders

Provide restricted key control by utilizing the HSK **Patented** key system, without the cost of anti pick drill and bump features. Tier 3 cylinders can be incorporated into HSK Tier 1 & 2 Master Key and Key systems. HSK Tier 1 & 2 keys will work in Tier 3 cylinders however Tier 3 keys will not work in Tier 1 & 2 HSK Cylinders. Tier 3 keys are covered under our patented key system.

Tier 2 High Security Cylinders

Have anti-pick, anti-drill and anti-bump features without the UL 437 Certification. See HSK Section.

Tier 1 (UL 437) High Security Cylinders

Have anti pick, anti drill and anti bump features incorporated and have the UL 437 Certification. See HSK Section.

RESTRICTED KEY CONTROL REPLACEMENT CYLINDERS

KEY-IN-KNOB-LEVER CYLINDERS



KKCRL-6

Key-In-Knob / Lever Replacement Cylinder
6-Pin “0 Bitted”
Includes:
- Standard Key / Lever Tailpiece (other tailpieces available)
- 2 keys (See Note B)

SMALL FORMAT IC CYLINDERS



7PUCCRS

Uncombinated Small Format Interchangeable Core Conventional SFIC, 7-Pin

- Does not include keys
  See Note C

MORTISE CYLINDERS



KMCRL-4

1 ¼” 6-Pin “0 Bitted” Mortise Cylinder.
- Cylinder comes with Adams Rite Cam - other cams are available as HSK.
- 2 keys
- Optional Rim Conversion Package Available
  See Note B & Note E

SINGLE CYLINDER DEADBOLT KITS



KKCRLSD-6

Single Cylinder Deadbolt Replacement Cylinder
6-Pin “0 Bitted”
Includes:
- 2 keys (See Note B)

DOUBLE CYLINDER DEADBOLT KITS



KKCRLDD-6

Double Cylinder Deadbolt Replacement Cylinder (2 required) 6-Pin “0 Bitted”
Includes:
- 2 keys (See Note B)

MORTISE / RIM COMBO CYLINDER KITS



KRCRL-6

1 ¼”, 6-Pin “0 Bitted” Mortise Cylinder w/ Rim Conversion Package
Cylinder comes with Adams Rite Cam
Includes:
- 2 keys (See Note B)

KEY BLANKS



KBCRL-6
Key blanks for use with Full Size replacement cylinders

KBCRS-7
Key blanks for use with 7PUCCRS Small Format Interchangeable Cores.

NOTES

Notes

a. HSK Tier 1 and 2 Keys will operate with Tier 3 Replacement Cylinders, however the Tier 3 keys will not operate in the Tier 1 and Tier 2 High Security Cylinders.
b. Pinning on Full Size Cylinders (CRL) is the same as Schlage, Pins, Depths & Spacing. No special pinning kits required. For pin spacing, use Scorpion HPC CX5 Card.
See page 112 for Scorpion Card.
c. Pinning on SFIC Cores (7PUC) is the same as Best, Falcon, Pins and Depth. No special pinning kits required.
d. Cutting keys will have to be done on code machines or duplicators. These keys cannot be cut on punches.
e. Tier 1, 2 & 3 Mortise Cylinders use the same Cams. To order other cams see HSK Cam Sheet.
f. Optional Rim Pack is also sold separately. Part # is “**Rim Pack**.” (Converts Mortise Cylinder to Rim Cylinder)

The CRP Securities High Security Key (HSK) **Patented** System utilizes the innovative Sidebar technology to bring superior and manageable Key Control. Together with distinct keyways and controlled means of key blank distribution, the Sidebar offers a superior level of Key Control Management. Keys can be cut on any standard duplicating and code cutting machines. All cylinders can be master keyed (MK), keyed-alike (KA) and keyed-different (KD). Schlage pins and depths for spacing use HPC CX5 Scorpion Card. On SFIC Cards use Best, Falcon, Pins, Depths and Spacing.

The HSK **Patented** System is designed for use in institutions, schools, hospitals, banks and all commercial and residential applications. The Sidebar series keyway is a proprietary design that is distributed in a controlled manner. Card control is implemented which requires authorized signature for valid duplication. We offer a cost-effective level of security comparable to other expensive high security control systems.

Maximum pick resistance is assured in HSK Systems with the utilization of anti-picking side pins and random mushroom top pins secured by cap screws. Standard cylinders are equipped with 2 hardened steel pins (up to 10 for UL-Listed) in the cylinder plug face for the ultimate in drill resistance. This protects the top and bottom pins and the sidebar from drilling attack.

MEETS
The Buy American Act

EXCLUSIVE SIDE BAR TECHNOLOGY

Unique floating side bar pins
Exclusive Keyways
Patented Cylinder and Key

Pick-Resistant Spool Pins
Anti-Drill Hardened Steel Pins
Hardened Silver Nickel Side Bar

KEY-IN-KNOB-LEVER CYLINDERS



KIKL5 / KIKL6
Deadbolt/Knob/Lever,
5-Pin and 6-Pin, Universal tailpieces for locksets and deadbolts

ULKIKL
ANSI/BHMA A156.30 Certified
UL 437- Listed for 6-Pin, Universal tailpieces for locksets and deadbolts

SMALL FORMAT IC CYLINDERS



SFIC7
Small Format, 7-Pin

ANSFIC7
ANSI/BHMA A156.30 Certified
Small Format, 7-Pin

LARGE FORMAT IC CYLINDERS



LFIC6
Schlage Large Format 6-Pin

ULLFIC6
ANSI/BHMA A156.30 Certified
UL 437- Listed
Schlage Large Format 6-Pin

MORTISE / RIM COMBO CYLINDERS



MRC118 - 1 ⅛", 6-Pin

ULMRC118
ANSI/BHMA A156.30 Certified
UL 437- Listed, 1 ⅛", 6-Pin

MRC114 - 1 ¼", 6-Pin

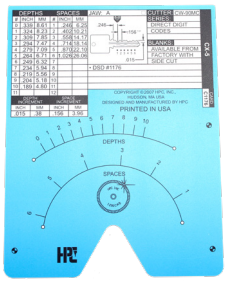
ULMRC114
ANSI/BHMA A156.30 Certified
UL 437- Listed, 1 ¼", 6-Pin

Optional Keyed Different (KD), Keyed Alike (KA), Master Keyed (MK) and 0-bitted (0B)

KEY BLANKS AND CONTROL KEYS



KBL6 - 6-Pin Key Blank,
Standard & Large Format
KBLSF7 - 7-Pin Small Format Key Blank (SFIC)
KCK6 - 6-Pin Large Format IC control key (LFIC)



HPC CX5
Scorpion Card

SFIC HOUSING



MRCSFIC-1-H
ANSI/BHMA A156.30 Certified
Small Format IC Housing for SFIC7 and ULSFIC7

LFIC HOUSING



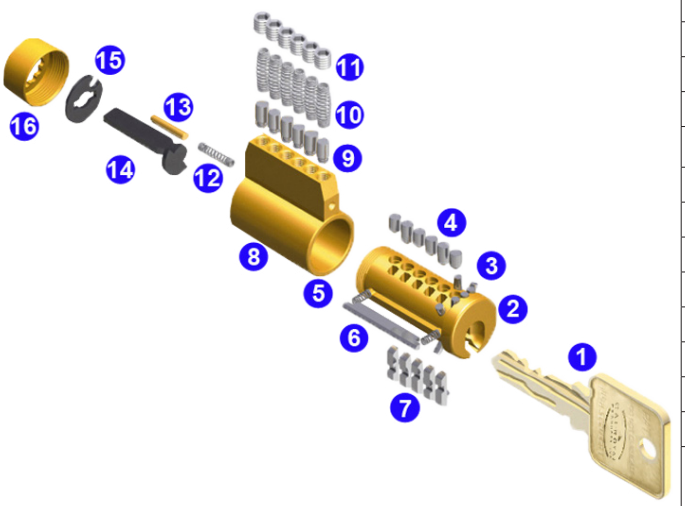
MRCLFIC-2-H
Large Format IC Housing
For Schlage Large Format IC LFIC6 and ULLFIC6

KEY-IN-KNOB / LEVER (KIKL)

MEETS
The Buy American Act

- ANSI / BHMA A156.30 Certified
- UL 437 – Listed
- Retrofits all CRP-Securities cylindrical locksets and deadbolts including other popular brand names
- Unique floating sidebar pins
- Patented Cylinder plug and Key
- Exclusive Keyways
- Pick-Resistant Spool Pins
- Hardened Silver Nickel Side Bar
- 0-Bitted or Keyed Different
- Anti-Drill Hardened Steel Pins (2 – Standard, 9 – UL)
- Comes standard with different tailpieces for universal application and 2 keys

ITEM CODE	DESCRIPTION
KIKL5	Universal 5-Pin Grade 3 Key-In-Knob-Lever Cylinder
KIKL6	Universal 6-Pin Key-In-Knob-Lever Cylinder
ULKIKL6	UL 437- Listed Universal 6-Pin Key-In-Knob-Lever Cylinder



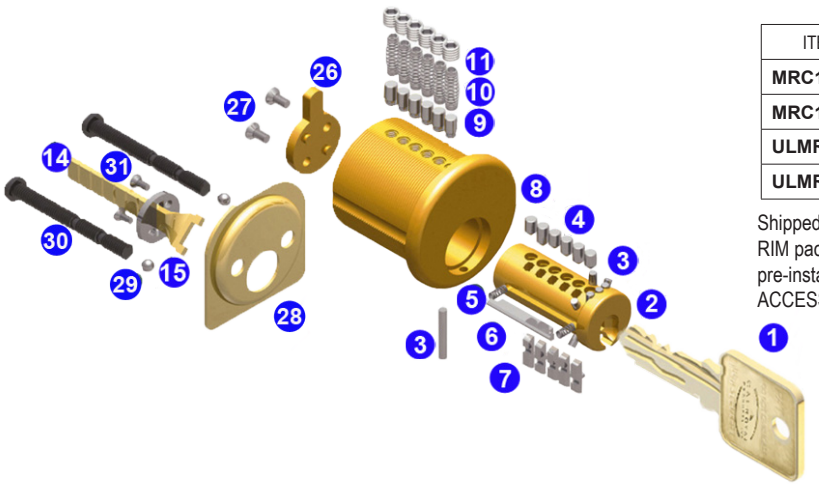
PART NO	PARTS DESCRIPTION	QTY KIKL	QTY MRCC	PART NO	PARTS DESCRIPTION	QTY MRCC
1	Key	2	2	17	Cylinder Cover	-
2	Plug	1	1	18	Sleeve	-
3	Anti-Drill Pin	*	*	19	Snap Ring	-
4	Bottom Pin	6	6	20	Plug Control Pin	-
5	Sidebar Pin	2	2	21	Pin Cover	-
6	Sidebar	1	1	22	Operation Hang Pin	-
7	Side Pin	5***	5	23	Cylinder Control Pin	-
8	Cylinder Housing	1	1	24	Operation Pin Spring	-
9	Top Pin	6**	6	25	Operation Spring	-
10	Top Pin Spring	6**	6	26	Cam	1
11	Cap Set Screw	6**	6	27	Cam Screw	1
12	Screw Cap Spring	1	-	28	Plate	1
13	Screw Cap Pin	1	-	29	Steel Ball	2
14	Tail Piece	9	1	30	Bolt	2
15	Washer	1	1	31	Screw	2
16	Screw Cap	2				

* Number of Anti-Drill Pins dependent on cylinder type (2 for Standard, 9 for UL)
** 5 for KIKL5
*** 4 for KIKL5

MORTISE-RIM COMBO CYLINDER (MRCC)

MEETS
The Buy American Act

- ANSI / BHMA A156.30 Certified
- UL 437 – Listed
- 1 ⅛" and 1 ¼" Mortise and Rim combination saves stocking space and inventory
- Hardened Silver Nickel Side Bar
- Pick-Resistant Spool Pins
- Cylinder rings available for 1" cylinder requirements using MRCC114 or MRC118
- Unique floating sidebar pins
- Exclusive Keyways
- 0-Bitted or Keyed Different
- Anti-Drill Hardened Steel Pins
- (3 – Standard, 10 – UL)
- Comes standard with 2 keys
- Patented Cylinder and Key



ITEM CODE	DESCRIPTION
MRC114	6-Pin 1 ¼" Mortise-Rim Combination Cylinder
MRC118	6-Pin 1 ⅛" Mortise-Rim Combination Cylinder
ULMRC114	UL 437 - Listed 6-Pin 1 ¼" Mortise-Rim Combination Cylinder
ULMRC118	UL 437 - Listed 6-Pin 1 ⅛" Mortise-Rim Combination Cylinder

Shipped as a mortise cylinder this is convertible to a RIM cylinder with the standard RIM pack included with the 1 ¼" and 1 ⅛" mortise cylinder. An "Adams Rite" cam is pre-installed on all mortise cylinders. Other cam options are available in the KITS & ACCESSORIES section.

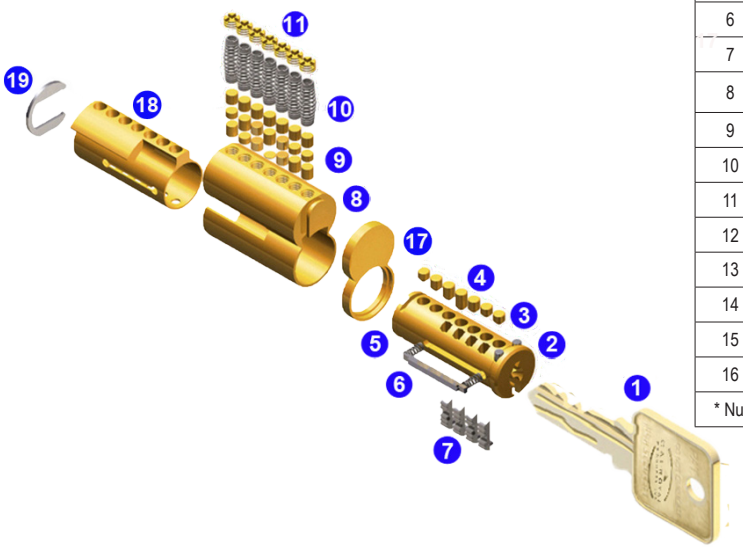
SMALL FORMAT INTERCHANGEABLE CORE (SFIC) CYLINDERS

MEETS
The Buy American Act

The Small Format Interchangeable Core (SFIC) cylinders are comparable to other popular SFIC in the market such as "BEST" when it comes to functionality, but with the added security of the sidebar mechanism. The location of the sidebar mechanism is inside the plug of the core, so there is no need to dismantle it to combine or pin the cylinder.

- ANSI / BHMA A156.30 Certified
- Retrofits all CRP-Securities cylindrical locksets and deadbolts including other popular brand names
- Unique floating sidebar pins
- Patented Cylinder and Key
- Exclusive Keyways
- Pick-Resistant Spool Pins
- Hardened Silver Nickel Side Bar
- 0-Bitted or Keyed Different
- Anti-Drill Hardened Steel Pins
- (2 – Standard, 4 – UL)
- Comes standard with 2 keys

ITEM CODE	DESCRIPTION
SFIC7	7-Pin Small Format Interchangeable Core Cylinder
ANSFIC7	ANSI / BHMA A156.30 Certified 7-Pin Small Format Interchangeable Core Cylinder



PART NO	PARTS DESCRIPTION	QTY SFIC	QTY LFIC	PART NO	PARTS DESCRIPTION	QTY SFIC	QTY LFIC
1	Key	2	2	17	Cylinder Cover	1	1
2	Plug	1	1	18	Sleeve	1	-
3	Anti-Drill Pin	*	*	19	Snap Ring	1	-
4	Bottom Pin	7	6	20	Plug Control Pin	-	1
5	Side Bar Pin	2	2	21	Pin Cover	-	1
6	Side Bar	1	1	22	Operation Hang Pin	-	1
7	Side Pin	4	5	23	Cylinder Control Pin	-	1
8	Cylinder Housing	1	1	24	Operation Pin Spring	-	1
9	Top Pin	21	6	25	Operation Spring	-	1
10	Top Pin Spring	7	6	26	Cam	-	-
11	Cap Set Screw	7	-	27	Cam Screw	-	-
12	Screw Cap Spring	-	1	28	Plate	-	-
13	Screw Cap Pin	-	1	29	Steel Ball	-	-
14	Tail Piece	-	-	30	Bolt	-	-
15	Washer	-	-	31	Screw	-	-
16	Screw Cap	-	1				

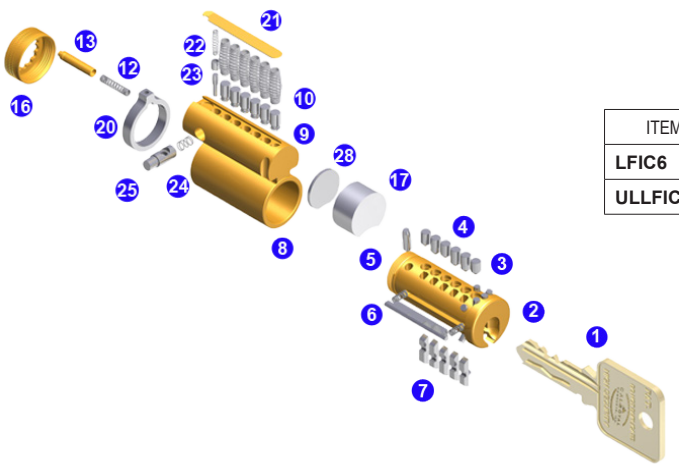
* Number of Anti-Drill Pins dependent on cylinder type (2 for Standard, 4 for UL)

LARGE FORMAT INTERCHANGEABLE CORE (LFIC) CYLINDERS

MEETS
The Buy American Act

The Large Format Interchangeable Core (LFIC) cylinders are configured as "Schlage" format. It comes in a 6-Pin configuration.

- UL 437 – Listed
- Retrofits all CRP-Securities cylindrical locksets and deadbolts including other popular brand names
- Hardened Silver Nickel Side Bar
- Exclusive Keyways
- Pick-Resistant Spool Pins
- Patented Cylinder and Key
- Unique floating side bar pins
- 0-Bitted or Keyed Different
- Anti-Drill Hardened Steel Pins
- (2 – Standard, 9 – UL)
- Comes standard with 2 keys



ITEM CODE	DESCRIPTION
LFIC6	6-Pin Schlage Large Format Interchangeable Core Cylinder
ULLFIC6	UL 437 - Listed 6-Pin Schalge Large Format Interchangeable Core Cylinder

SMALL FORMAT AND LARGE FORMAT INTERCHANGEABLE CORE CYLINDER HOUSING

MEETS
The Buy American Act



MRCSFIC-1-H
ANSI/BHMA A156.30 Certified
Small Format IC Housing
for SFIC7 and ULSFIC7



MRCLFIC-2-H
Large Format IC Housing
for Schlage LFIC6 and ULSFIC7

HSCRB800 AND HSCRB700 SERIES GRADE 1 HEAVY DUTY HIGH SECURITY DEADBOLT

MEETS
The Buy American Act

- Commercial and Residential Application
- Meets ADA requirements specially designed for Barrier Free Application
- Exceeds BHMA / ANSI A156.36, Grade 1 requirements
- ADA Ergonomic Thumbturn
- Available as Single or Double Cylinder
- Free turning, wrench-resistant tapered cylinder ring
- 1" (25mm) throw high-strength steel alloy deadbolt with anti-saw
- Steel mounting plate
- TRIM: Wrought Brass or Stainless Steel
- FACE PLATE: Standard 2 ¼" X 1 ⅛"
- DOOR RANGES: Adjustable 1 ⅜" (40mm) to 2" (51mm) door thickness
- BORE DIAMETER: 1" for latch, 2 ⅛" for lock housing
- STRIKE: ⅛" X 2 ¾" square corner
- Extra security 1" throw bolt with ¼" free spinning anti-cut through pin
- 2 pcs x 3" screws with wood frame reinforcer greatly strengthens door frames



HSCRB800
SINGLE CYLINDER DEADBOLT



HSCRB700
DOUBLE CYLINDER DEADBOLT

ALSO AVAILABLE FOR GRADE 2 DEADBOLT CYLINDERS



HSULT360



HSULT362



HSCB160



HSCB162

KEY BLANKS AND CONTROL KEYS

ITEM CODE	DESCRIPTION
KBL5	5-Pin key blank
KBL6	6-Pin key blank
KBLSF7	7-Pin Small Format IC key blank
KCK6	6-Pin Large Format IC control key



MEETS
The Buy American Act



SHTOOL
SFIC Housing Shear Tool

ACCESSORIES

MORTISE AND KIKL COMPONENTS (UL - LISTED)

	ULCAMADAM-1	ULCAMYALE-2	ULCAMYALE-2A	ULCAMRUSS-3	ULCAMFLCN-4	ULCAMSCHL-7	ULCAMSGNT-8	ULMSHRMTPIN	ALLNSCRW-SS
									
SSBPIN0	**SSBPIN1**	**SSBPIN2**	**SSBPIN3**	**SSBPIN4**	**SSBPIN5**	**SSBPIN6**	**SSBPIN7**	**SSBPIN8**	**SSBPIN9**
									

MORTISE AND KIKL COMPONENTS (NON-UL)

SPIN1	SPIN2	SPIN3	SPIN4	SIDEBAR-1	SIDEBARSPRING	LZTPSD-01	LZTPDD-01	LZTPDD-02
								
KIKLZTP-01	**KIKLZTP-02**	**KIKLZTP-03**	**KIKLZTP-04**	**KIKLZTP-05**	**KIKLZTP-06**	**TPWASHER**	**MSHRMTPIN**	
								
KIKLCAP-01	**KIKLCAP-02**	**KIKPIN**	**KIKPINSPRING**	**RIMPACK**	**ALLNSCRW-BLK**	**KIKSPRING**	**MRTPINSPRING**	
								
CAMADAM-1	**CAMYALE-2**	**CAMYALE-2A**	**CAMRUSS-3**	**CAMFLCN-4**	**CAMSCHL-7**	**CAMSGNT-8**	**CAMSCREW**	

LFIC COMPONENTS

LFCAMADAM-1	LFCAMYALE-2	LFCAMYALE-2A	LFCAMRUSS-3	LFCAMFLCN-4	LFCAMSCHL-7	LFCAMSCRW

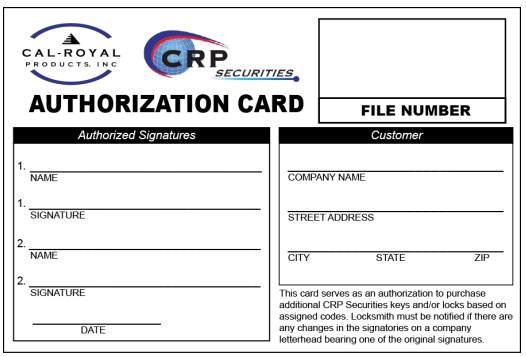
SFIC COMPONENTS

SFICWPIN1	SFICSPIN2	SFICSPIN3	SFICSIDEBAR	SFICSBSPR	SFICCCLIP	SFICALLNSCRW	SFICSPR

CONTROLLED KEY DUPLICATION AND DISTRIBUTION

High Security key control is a must. Each cylinder comes with duplicate keys, registration card and authorization card. Dealers agree to keep accurate and responsible keying records in accordance with CRP Securities' recording procedures and agree to maintain a key cutting log in which Dealers will enter for each key that it cuts: the date of the key duplication, the name of the person operating the machine, the number of duplicate keys cut, the name of the person to whom the duplicate key is delivered or, if mis-cut, the fact will be recorded and the mis-cut blank will be stored in inventory until it can be counted by CRP Securities personnel and the remaining number of CRP High Security key blanks in Dealer's inventory.

These are just some of the procedures that are enforced to ensure and maintain the high level of security provided by CRP High Security Key System.


CAL-ROYAL PRODUCTS, INC.
CRP SECURITIES

AUTHORIZATION CARD

FILE NUMBER

Authorized Signatures

1. NAME
1. SIGNATURE
2. NAME
2. SIGNATURE

DATE

Customer

COMPANY NAME

STREET ADDRESS

CITY STATE ZIP

This card serves as an authorization to purchase additional CRP Securities keys and/or locks based on assigned codes. Locksmith must be notified if there are any changes in the signatories on a company letterhead bearing one of the original signatures.





The specified Locksmith hereby authorizes its officers, employees, and agents to accept the authorized signatures appearing on the reverse side of this card to avail of services and products from CRP Securities of sensitive character such as Master Keys, Restricted Keys, Locks, etc. It is the Locksmith's responsibility to extend only under an admissible decision that an authenticated signature on any order in such events has been made by the individual whose signature is the above-mentioned authorized signature.

KEY CUTTING LOG SHEET

DATE	REGISTRATION #	CUSTOMER NAME	COMPANY	DUPLICATE QTY.	KEY SERIAL #(S)	MACHINE OPERATOR	REMARKS

CRP COMBINATION "COMBI" KEY CONTROL CYLINDER PROGRAM

COMBI is a new key system developed by Cal-Royal Products, Inc. and CRP Securities to resolve key systems using different lock manufacturers' products to work together. Using patented keyway design, it allows for existing keying systems of different lock manufacturers to be integrated into one keyway, while maintaining existing hierarchy of key control and key combinations.

CRP COMBI CYLINDER PROGRAM

KEY-IN-KNOB-LEVER CYLINDERS



KK-COS-NS

Key-In-Knob / Lever Replacement Cylinder
6-Pin "0-bitted"
Includes:
- Standard Key / Lever Tailpiece (other tailpieces available)
- 2 keys
- See Note A below for pinning info

SMALL FORMAT IC CYLINDERS



6PUC0-COS

Uncombinated Small Format Interchangeable Core Conventional SFIC, 6-Pin

- Does not include keys
  See Note B below for pinning info

MORTISE CYLINDERS



KM-COS-4

1 ¼" 6-Pin "0-bitted" Mortise Cylinder.

- Cylinder comes with Adams Rite Cam - other cams are available as HSK.
- 2 keys
- Optional Rim Conversion Package Available
- See Note A below for pinning info

LARGE FORMAT INTERCHANGEABLE CORES

SCHLAGE



KL-COS-SC

Schlage Large Format
6-Pin "0-bitted"
Includes:
- 2 keys
- See Note A below for pinning info

YALE



KL-COS-YA

Yale Large Format
6-Pin "0-bitted"
Includes:
- 2 keys
- See Note A below for pinning info

SARGENT



KL-COS-SA

Sargent Large Format
6-Pin "0-bitted"
Includes:
- 2 keys
- See Note A below for pinning info

CORBIN/RUSSWIN



KL-COS-CR

Corbin / Russwin Large Format
6-Pin "0-bitted"
Includes:
- 2 keys
- See Note A below for pinning info

EUROPEAN PROFILE CYLINDERS

HALF CYLINDER



KE-COS-S

- 1 ¾" (45mm) length, 6-Pin standard
- Base material: Brass

Includes:
- 2 keys
- See Note A below for pinning info

DOUBLE CYLINDER



KE-COS-D

- 2 ¾" (70mm) length, 6-Pin standard
- Base material: Brass

Includes:
- 2 keys
- See Note A below for pinning info

CYLINDER X THUMBTURN



KE-COS-C

- 2 ¾" (70mm) length, 6-Pin standard
- Base material: Brass

Includes:
- 2 keys
- See Note A below for pinning info

NOTES

A. Use Combi C2 or C4 full size pins for all COMBI Cylinders **except** SFIC. See page 119.

B. Keys must be cut on code machine with Best, Falcon, Depths and Spacing. Keys cannot be punched.



CRP COMBI PINNING KITS

COMBI C2 / C4 Full Size Pinning Kit
DUAL COMBI A2 / A4 / C2 / C4 Small Format & Full Size Pinning Kit

ACCESSORIES

A2 SFIC PINS	A4 SFIC PINS	C2 FULL SIZE PINS	C4 FULL SIZE PINS
(2-19) Master Pins	**(1-11) Master Pins**	**(2-9) Master Pins**	**(1-5) Master Pins**
• KP-I-2M • KP-I-3M • KP-I-4M • KP-I-5M • KP-I-6M • KP-I-7M • KP-I-8M • KP-I-9M • KP-I-10M • KP-I-11M • KP-I-12M • KP-I-13M • KP-I-14M • KP-I-15M • KP-I-16M • KP-I-17M • KP-I-18M • KP-I-19M	• KP-I4-1M • KP-I4-2M • KP-I4-3M • KP-I4-4M • KP-I4-5M • KP-I4-6M • KP-I4-8M • KP-I4-9M • KP-I4-10M • KP-I4-11M	• KP-C2-2M • KP-C2-3M • KP-C2-4M • KP-C2-5M • KP-C2-6M • KP-C2-7M • KP-C2-8M • KP-C2-9M	• KP-C4-1M • KP-C4-2M • KP-C4-3M • KP-C4-4M • KP-C4-5M
(0-9) Bottom Pins	**(0-5) Bottom Pins**	**(0-9) Bottom Pins**	**(0-5) Bottom Pins**
• KP-I-0B • KP-I-1B • KP-I-2B • KP-I-3B • KP-I-4B • KP-I-5B • KP-I-6B • KP-I-7B • KP-I-8B • KP-I-9B	• KP-I4-0B • KP-I4-1B • KP-I4-2B • KP-I4-3B • KP-I4-4B • KP-I4-5B	• KP-C2-0B • KP-C2-1B • KP-C2-2B • KP-C2-3B • KP-C2-4B • KP-C2-5B • KP-C2-6B • KP-C2-7B • KP-C2-8B • KP-C2-9B	• KP-C4-0B • KP-C4-1B • KP-C4-2B • KP-C4-3B • KP-C4-4B • KP-C4-5B
KP-I • SFIC pins for keying (same as BEST A2)	**KP-I4** • SFIC pins for keying (same as BEST A4)	**KP-C2** • Full size pins C2 large diameter cylinders	**KP-C4** • Full size pins C4 large format diameter cylinders

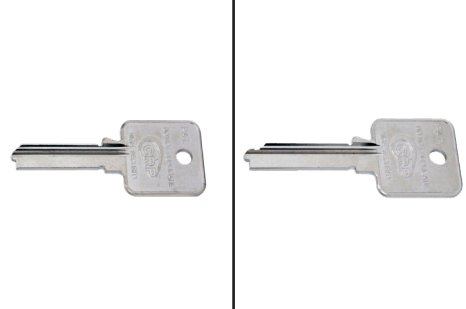
PARTS KIT FOR KK-COS-NS



KT-H-PK

- KIKLCAP-01
- KIKLCAP-02
- LZTPSD-01
- LZTPDD-01
- LZTPDD-02
- TPWASHER
- KIKLZTP-01
- KIKLZTP-02
- KIKLZTP-03
- KIKLZTP-04
- KIKLZTP-05
- KIKLZTP-06

KEYS



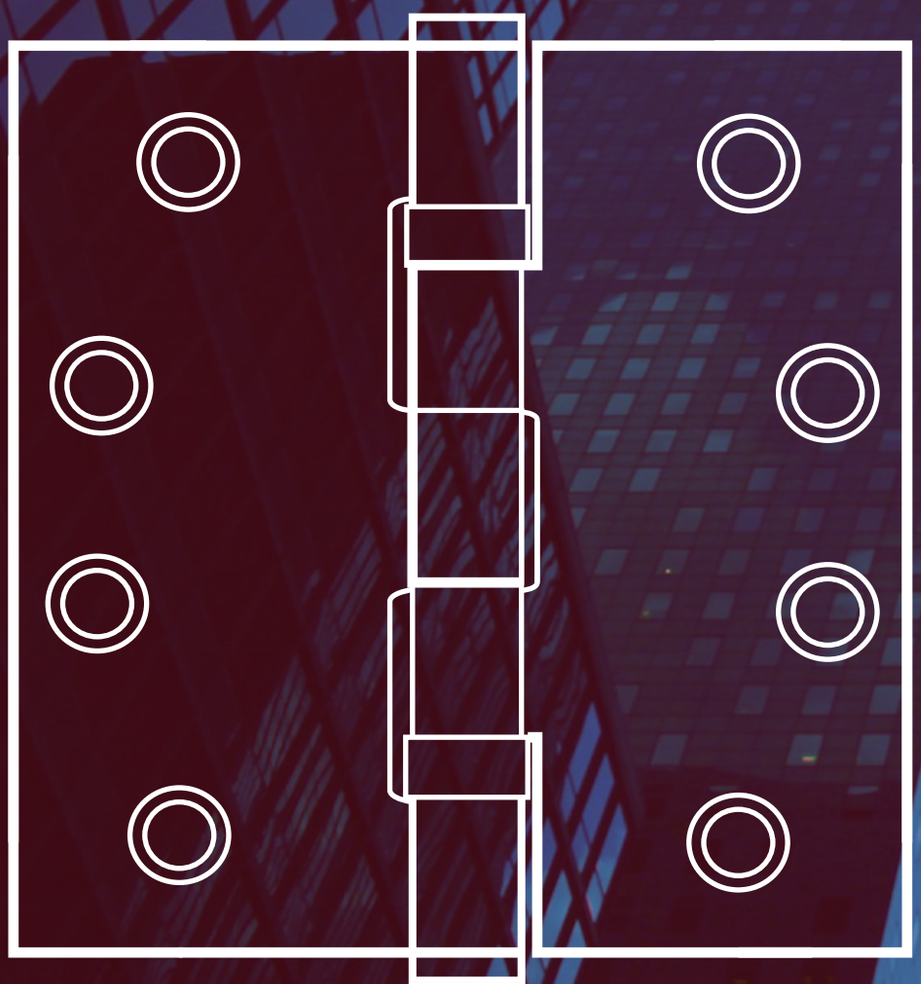
KBCOS6
COMBI 6-Pin key blank

COSCK
COMBI 6-Pin Large Format IC control key

CAL-ROYAL PRODUCTS, INC. USA

CRP SECURITIES USA

HINGES




CAL-ROYAL
PRODUCTS, INC.
USA
CRP
G
SECURITIES
USA
LIFETIME
WARRANTY
BHMA
CERTIFIED
Be Safe. Be Secure. Look for the Mark.
(800) 876-9258 | www.cal-royal.com | SEPT 2020

TABLE OF CONTENTS

I. BASIC INFORMATION
- Types of Hinges 2
- Determining the Number of Hinges Needed 2
- Determining the Height of Hinges Needed 2
- Determining the Width of Hinges Needed 2
- Determining Handing 3
- Guidelines for Frequency of Door Usage 3
- Minimum Architectural Hinge Requirements 3
- Type of Materials 3
- Guidelines for Estimating Door Weight 4
- Types of Finishes 4
- Anti-Rust Finishes 4
- Electrified Hinges 4

II. COMMERCIAL HINGES
- Heavy Weight ● Four Ball Bearing 5
- Standard Weight ● Two Ball Bearing 5-6
- Standard Weight ● Plain Bearing 5-6

III. MADE IN TAIWAN HINGES THAT MEET THE BUY AMERICAN ACT
- Standard Weight ● Two Ball Bearing 5
- Heavy Weight ● Four Ball Bearing 5

IV. SPECIALTY HINGES
CONCEALED BALL BEARING
- Standard Weight ● Ball Bearing 6
- Heavy Weight ● Ball Bearing 6

FULL SURFACE TYPE
- Standard Weight ● Ball Bearing 6

HALF MORTISE TYPE
- Standard Weight ● Ball Bearing 6

HALF SURFACE TYPE
- Standard Weight ● Ball Bearing 7

SWING CLEAR
- Standard Weight ● Two Ball Bearing 7
- Heavy Weight ● Four Ball Bearing 7

HOSPITAL TIP
- Standard Weight ● Two Ball Bearing 7
- Heavy Weight ● Four Ball Bearing 7

WIDE THROW HINGES
- Standard Weight ● Two Ball Bearing 7

V. SPRING HINGES
- Commercial 8
- Combination 8
- Residential 8

VI. EXTRUDED SOLID BRASS HINGES
- Full Mortise Type ● Two Ball Bearing 9
- Full Mortise Type ● Plain Bearing 9

VII. CASTLEGATE COMBINATION HINGES 9

VIII. RESIDENTIAL HINGES
- Two Ball Bearing ● 5 Knuckles 9
- Plain Bearing 9-10
- Benchmark ● Timely, Reddi Frame 10
- Plain Bearing ● Stainless Steel, Square Corner 11
- Plain Bearing ● Square Barrel 11

IX. PARLIAMENT HINGES
- Full Mortise Type ● Plain Bearing 11

X. SOLID BRASS CABINET HINGES 11

XI. REINFORCING PIVOT HINGES 11

XII. HINGE SCREWS 12

XIII. STEEL, BRASS & STAINLESS STEEL TYPE HINGES 13

XIV. INTERTEK CERTIFICATION 14

XV. BHMA CERTIFIED WITH LIFETIME WARRANTY HINGES
- Standard Weight ● Plain Bearing 15
- Standard Weight ● Ball Bearing 15
- Heavy Weight ● Ball Bearing 16
- Heavy Weight ● Concealed Ball Bearing 17
- Standard Weight ● Concealed Ball Bearing 17

XVI. GEARED ALUMINUM CONTINUOUS HINGES
- Basic Information 20
- Full Concealed Mortised Models 21, 23
- Full Surface Models 22, 24
- Half Surface Models 22, 25
- Electrification 26

XVII. 3D INVISIBLE HINGES
- (UL Listed) 3D Adjustable Hinge 28-29
- 3D Adjustable Hinge 30-31
- Accessories 32-34

XVIII. OFFSET & INTERMEDIATE PIVOT HINGES
- General Information 36
- Intermediate Offset Pivot 37
- Electrified Intermediate Offset Pivot 37
- Top & Bottom Offset Pivot 38

CAL-ROYAL
PRODUCTS, INC.

Lifetime Warranty on Commercial Grade Hinges

BHMA CERTIFIED

CAL-ROYAL'S complete line of Commercial, Residential and Continuous Gear Hinges offer unsurpassed value, quality and service. Engineered to meet or exceed industry standards that customers have come to expect.

GENERAL INFORMATION

ANSI Products Standards
CAL-ROYAL HINGES complies with ANSI A156.1 (Butts and Hinges), A156.7 (Template hinge dimensions), A156.17 (Self Closing Hinges and Pivots), A156.18 (materials and Finishes).
Plain Bearing Standard Weight
For Standard weight doors receiving low frequency service. Template hinges are furnished with all machine and wood screws.

Ball Bearing Standard Weight
For Standard weight doors receiving average frequency service. Template hinges are furnished with all machine and wood screws.

Ball Bearing Heavy Weight
For Heavy Doors (such as entrance and corridors) or doors receiving high frequency service. Inner edges are beveled to conform the shape of barrel and to make close fitting joints. Heavy weight template hinges are equipped with all machine and one half wood screws.

Half Surface
One leaf is mortised in the frame and the other is surface applied to the face of the door (wood door with wood frame or metal core door with hollow metal frame).

Half Mortise
One leaf is mortised in the door and the other is surface applied to the frame (hollow metal door with channel iron frame).

Swing Clear
For use where conditions require a completely clear opening when door is opened to 90º angle. Inner edges of leaves are beveled to conform to shape of barrel and to make close fitting joints. Phillips head threaded plug permits hinge to be reversed to suit application.

Full Mortise
Both leaves are mortised. One leaf in the door and one leaf in the frame (wood door or hollow metal door with wood or hollow metal frame).

Full Surface
Both leaves are applied to the surface, one to the door and the other to the frame (metal core door or hollow metal door with channel iron frame).

Materials and Finishes
Wrought Steel: Satin finishes or highly polished and plated. All plated finishes have a clear baked finish.

Wrought Stainless Steel:
Satin finish non-ferrous, non-corrosive grade 304.

Stock Finishes: Refer to our price list for stock finishes. Materials such as solid brass are available on request. Prefix SB before part #.

Tips
Button: All hinges have flat button tip, except concealed ball bearing hinges which are flush.

Non-removable Pins: Removable threaded set screw in barrel prevent pin from being removed when door is closed. Available on all hinges. Use N.R.P. for ordering.

Special Pins: Solid brass pins, stainless steel pins and Hospital Tips are available on request. Decorative tips are also available on 4 ½" x 4 ½", 4" x 4", 3 ½" x 3½" commercial hinges and 4" x 4" and 3½" x 3½" residential hinges. Add BT (Ball Tip), ST (Steeple Tip) before part number for specification. Other Size Hinge tips also available based on factory order.

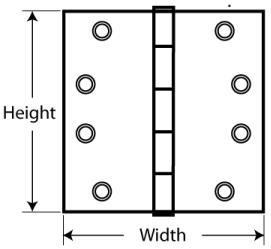


Packaging
All hinges are individually wrapped to protect the finish. Commercial grade hinges are packed 3 pieces per inner box with all machine and all wood screws. Residential hinges are packed one pair per box, bulk assembled or unassembled. Spring hinges are packed 2 pieces per box. Refer to price list for carton quantities.

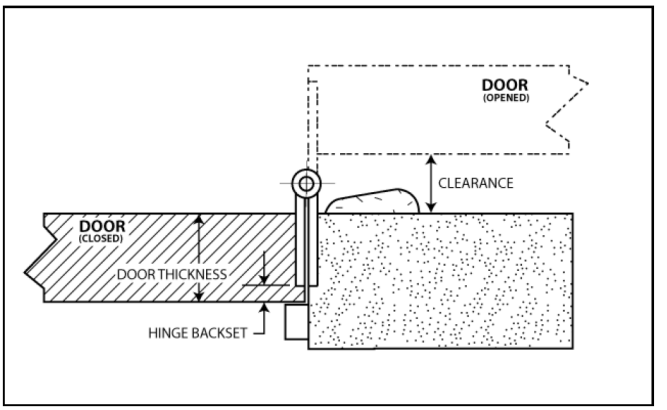
BASIC INFORMATION

Types of Hinges:

Full Mortise – Both leaves are mortised. One leaf on the frame and one on the door.
Half Mortise – One leaf is mortised in the door and the other is surface applied to the frame.
Full Surface – Both leaves are applied to the surface. One to the door and the other to the frame which may be a metal core door or hollow metal door with channel iron frame.
Half Surface – One leaf is mortised to the frame and the other is surface applied to the face of the door which may be a wood door with wood frame or a metal core door with hollow metal frame.
Hinge Size Configuration - Hinges are measured by its height and its width. The first dimension is the height and the second is the width. Width is measured when the hinge is in the open position as shown in the figure below



Determining the width of hinges needed:



WIDTH = DT – HB x 2 + CR

DT - DOOR THICKNESS
HB - HINGE BACKSET
CR - CLEARANCE REQUIRED

If the result of the formula above would correspond to a non standard hinge, then go to the next larger hinge width.

Determining the number of hinges needed:

Generally there should be 1 hinge for every 30" of door height. Refer to table below for quick reference.

HEIGHT OF DOOR	NUMBER OF HINGES
60" or below	2
61" – 90"	3
91" – 120"	4

Determining the height of hinges needed:

GUIDELINES FOR HINGE HEIGHT SELECTION			
DOOR WEIGHT, lbs.	DOOR WIDTH	DOOR THICKNESS	FULL MORTISE HINGE HEIGHT
75	32"	1 ⅜"	3 ½"
	36"	1 ⅜"	4"
150	32"	1 ⅜"	4"
	36"	1 ⅜"	4"
150	32"	1 ¾"	4 ½"
	36"	1 ¾"	4 ½"
175	32"	1 ⅜"	5"
	36"	1 ⅜"	5"
175	36"	1 ¾"	5"
	48"	1 ¾"	5"
230	36"	1 ⅜"	6"
	48"	1 ⅜"	6"
230	36"	1 ¾"	6"
	48"	1 ¾"	6"

RECOMMENDED HINGE BACKSET:

For doors 2 ¼" thick and below, ¼" (6.4 mm) backset is recommended.
For doors over 2 ¼", ⅜" (9.5 mm) backset is recommended.

Selecting the Proper weight and Bearing Type:

Standard Weight - Plain Bearing
Standard Weight - Ball Bearing, Concealed bearing
Heavy Weight - Ball Bearing, Concealed bearing

Considerations in determining Weight and Bearing type:

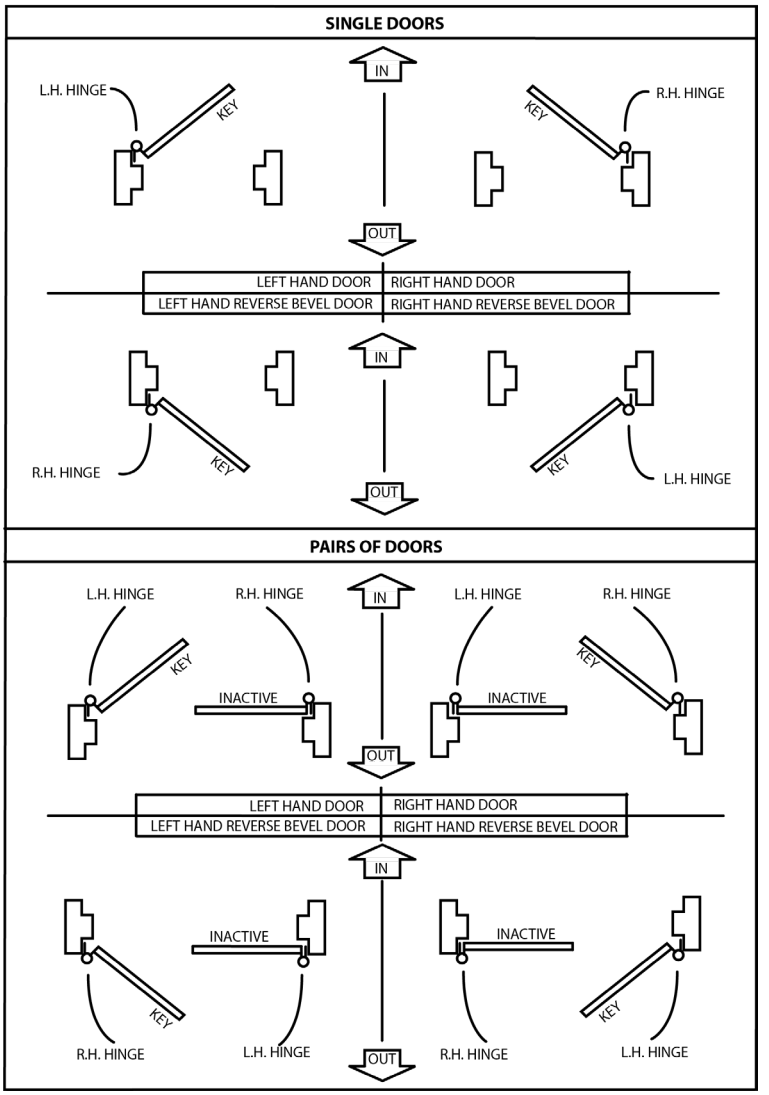
1) Weight of Door
2) Frequency of Use
3) Frame
4) Door Hardware

- Always use ball bearing or concealed bearing hinges for doors with door closers and in all fire rated openings. Heavy Weight doors and high frequency doors should use heavy weight ball bearing or concealed bearing hinges.
- Use ball bearing or concealed bearing hinge with spring hinges.

BASIC INFORMATION

Determining handing:

Some hinge applications require correct hinge handing. It is therefore necessary to distinguish what type of hinge handing a particular application may require. Shown in the illustration below, the suffix L.H. (left hand) and R.H. (right hand) would classify their handing.



The hand of a hinge is determined from the outside of the door to which it is applied. This is usually the keyed side. When standing outside, if the door opens away to the right, it requires a right–hand hinge also referred to as RH. If it opens away to the left, then it requires a left-hand hinge also termed as LH.

When standing outside, if the door opens towards the right, it requires a left-hand hinge, also referred to as right hand reverse bevel or RHRB. If it opens towards the left, it will require a right-hand hinge, also referred to as left hand reversed bevel or LHRB.

Guidelines for Frequency of Door Usage:

BUILD TYPE	DAILY USAGE	YEARLY USAGE	HINGE TYPE
High Frequency/ Heavy Weight Door			*Heavy Weight*
Large Department Store Entrance	5,000	1,825,000	
Hospital Corridor and Surgical Doors	5,000	1,825,000	
Large Office Building Entrance	4,000	1,460,000	
School Entrance	1,250	356,200	
School Toilet Door	1,250	356,200	
Office Stairwell	500	182,500	
Office Building Toilet Door	400	118,000	
Medium Frequency/ Medium Weight Door			*Standard Weight*
School Corridor Door	100	36,500	
Hospital Consultation Rooms	100	36,500	
Office Building Corridor Door	80	15,000	
Store Toilet Door	60	15,000	
Storage Room	50	18,250	
Low Frequency/ Light Weight Door			*Plain bearing*
Residential Entrance	30	10,950	
Interior Residential	20	7,300	

Minimum Architectural Hinge Requirements:

Grade 1:	2,500,000	Heavy Weight Ball and Concealed Bearing
Grade 2:	1,500,000	Standard Weight Ball & Concealed Bearing
Grade 3:	350,000	Light Weight Plain Bearing

Type of materials:

Steel – Durable, has great strength but is highly corrosive. Rusting will result if the material is used in an uncontrolled environment, like places near the sea where the atmosphere is salty. Steel is best to use in a stable contained surroundings such as inside a building where the temperature and humidity are controlled. Steel hinges can be used on listed fire rated or labeled door openings.

Stainless Steel – This material is also durable and has great strength, but does not corrode like steel. This is best to use on highly corrosive areas. A 316 grade stainless steel or clear coat over 304L is recommended. Stainless steel can also be polished to a satin or bright finish. Stainless steel hinges can also be used on listed fire rated or labeled door openings.

Brass – Like stainless steel, brass is also non-corrosive and rust resistant. And although brass has less strength compared to steel and stainless steel, it is very decorative. It is often used in applications where appearance is taken into consideration over strength as it can be polished and plated in various finishes. But due to its low melting point, brass may not be used on listed fire rated door openings.

BASIC INFORMATION

Guidelines for Estimating Door Weight:

(Weight in Pounds per Square Foot)

DOOR THICKNESS	1 ⅜"	1 ¾"	2"	2 ¼"	2 ½"
Material					
Hollow Metal 18 gauge	4.3	4.6			
Hollow Metal 16 gauge	5.4	5.8			
Hollow Metal 15 gauge	6.2	6.5			
Hollow Metal 14 gauge	7.0	7.3			
Hollow Metal 13 gauge	8.3	8.7			
Hollow Metal 12 gauge	9.9	10.2			
Hollow Metal 11 gauge	11.2	11.6			
Hollow Metal 10 gauge	12.8	13.0			
Ash	4.5	5.3	6.0	6.8	7.5
Birch	3.8	4.3	5.0	5.6	6.3
Fir	3.0	3.5	4.0	4.5	5.0
Mahogany	4.5	5.3	6.0	6.8	7.5
Oak	6.0	7.3	8.0	9.0	10.0
White Pine	3.0	3.5	4.0	4.0	5.0
Mineral Core		4.0			

Types of Finishes:

All steel and brass material hinges can be plated to match the available finishes that are listed in the American National Standards Institute or ANSI, standard ANSI/BHMA A156.18 Materials and Finishes.

Anti-rust finishes:

When using steel based materials hinges, special finishing procedures can be done which will improve and add protection to the product. A nickel undercoat may be applied prior to plating. But although this will give added protection and make it rust resistant, it is still not considered rust proof. Stainless steel or brass which is a non-ferrous material may be used if a true rust-resisting hinge is needed.

OUR SEAL OF QUALITY



ALL HINGES ARE STAMPED WITH CRP LOGO. ALSO AVAILABLE W/O LOGO. PREFIX "UN" WHEN ORDERING. REFER TO PRICE LIST FOR STOCK ITEMS.

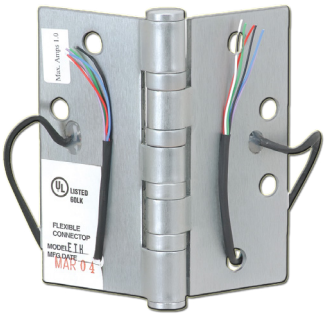
Electrified Hinges:

The Electrified Hinge made door wiring easy, safe and reliable. Power can now be transferred from the frame into the door either exposed or concealed.

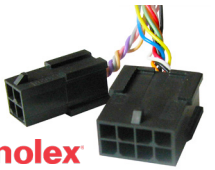
With the introduction of electrified hinges, we are now able to monitor the position of the door, transfer power and incorporate both functions into a single hinge. More so, we now have the ability to electrify other hardware items such as exit devices and electrified locks.

Full mortise hinges are highly recommended for modification purposes. However, monitoring can be supplied on a half surface hinge if the need arises. It is also recommended that the Center Hinge Location be used with all electrically modified hinges.

The maximum voltage that is allowed in electrified hinges is 48 volts. Higher voltage is not allowed because of potential dangers. The current (amperes) should also be taken into consideration.



FOR QUICK CONNECT OPTION ON 8-WIRE & 12-WIRE ELECTRIFICATION, PREFIX "ELQC" BEFORE ITEM #.



MICRO-FIT 3.0™ INTERCONNECT SYSTEM AVAILABLE TO RETROFIT COMMON QUICK CONNECTION SYSTEMS SUCH AS ELECTROLYNX® OR ALLEGION CONNECT®.

4-, 6- and 8-wire available on all standard weight, heavy weight and concealed ball bearing hinges in all sizes. Specify Hinge.

ENERGY TRANSFER HINGES FOR CYLINDRICAL LOCKS, MORTISE LOCKS AND PANIC TRIMS

Prefix **ELE** + (***No. of wires***) before **ITEM #**

ELE4: 4 Wires - 26 gauge - 1A@24V (per pair)
ELE6: 6 Wires - 28 gauge - 1A@24V (per pair)
ELE8: 8 Wires - 28 gauge - 1A@24V (per pair) - **ELQC8:** (For QC Option)
ELE12: 12 Wires - 28 gauge - 1A@24V (per pair) - **ELQC12:** (For QC Option)

ENERGY TRANSFER HINGES FOR ELECTRIFIED PANIC BAR (ELR)

Prefix **ELELR** + (***No. of wires***) before **ITEM #**

ELELR4: 2 Wire -18 gauge, 5A (16A in-rush for 300 ms.) + **2 Wire** -26 gauge
ELELR6: 2 Wire -18 gauge, 5A (16A in-rush for 300 ms.) + **4 Wire** -28 gauge
ELELR8: 2 Wire -18 gauge, 5A (16A in-rush for 300 ms.) + **6 Wire** -28 gauge
ELELR12: 2 Wire -18 gauge, 5A (16A in-rush for 300 ms.) + **10 Wire** -28 gauge

***Each 18 AWG wire is rated 24 Volts AC/DC at 5 amps max. continuous, or 16 amps max. current with 300 msec. minimum "off" time between pulses, for 10 seconds*

NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.



FULL MORTISE TYPE HINGES
Heavy Weight ● Four Ball Bearing ● Template

ITEM #	SIZE	GAUGE
BB5500	5" x 5"	.190
BB5210	5 x 4 ½"	.190
BB5254	5" x 4"	.190
BB5200	4 ½" x 4 ½"	.180
BB52454	4 ½" x 4"	.180
BBRC5835	3 ½" x 3 ½"	.123

Size: Maximum of 8" x 8" available upon request		Material: Steel, Stainless Steel, Brass	
Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	24
½" x 12 – 24	1" x 12		





FULL MORTISE TYPE HINGES
Standard Weight ● Two Ball Bearing ● Template

Two Ball Bearing, ¼" Radius Round Corner

ITEM #	SIZE	GAUGE
RCBB31 **N.R.P.**	4 ½" x 4 ½"	.134

Two Ball Bearing, ⅛" Radius Round Corner

RCBB454 **N.R.P.**	4 ½" x 4"	.190

Two Ball Bearing, Square Corner

BB55	5" x 5"	.146
BB545	5 x 4 ½"	.146
BB54	5" x 4"	.146
BB31	4 ½" x 4 ½"	.134
BB454	4 ½" x 4"	.134
BBSC56	4" x 4"	.130
BBSC77*	3 ½" x 3 ½"	.123
BBSC33*	3" x 3"	.123

Size: Maximum of 6" x 6" available upon request		Material: Steel, Stainless Steel, Brass	
Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	48
½" x 12 - 24	1 ¼" x 12		

*Supplied with ½" x 10-24 machine screws and 1 x 9 wood screws, 2 pieces/inner box 100 pieces/carton



MADE IN TAIWAN HINGES THAT MEET THE BUY AMERICAN ACT
Full Mortise Type

Two Ball Bearing ● Standard Weight

ITEM #	SIZE	GAUGE
TABB31	4 ½" x 4 ½"	.134
TABB545	5" x 4 ½"	.146

Four Ball Bearing ● Heavy Weight

TABB5200	4 ½" x 4 ½"	.180

Material: Steel, Stainless Steel			
Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	48
½" x 12 - 24	1 ¼" x 12		



FULL MORTISE TYPE HINGES
Standard Weight ● Plain Bearing ● Template

ITEM #	SIZE	GAUGE
TBH55	5" x 5"	.146
TBH30	4 ½" x 4 ½"	.134
TBH454	4 ½" x 4"	.134
TBHSC55	4" x 4"	.130
TBHSC77*	3 ½" x 3 ½	.123
TBHSC33*	3" x 3"	.123

Size: Maximum of 6" x 6" available upon request		Material: Steel, Stainless Steel, Brass	
Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	48
½" x 12 - 24	1 ¼" x 12		

*Supplied with ½" x 10-24 machine screws and 1 x 9 wood screws, 2 pieces/inner box 100 pieces/carton

NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.



FULL MORTISE TYPE HINGES • Standard Weight • Template

¼" Radius • Plain Bearing

ITEM #	SIZE	GAUGE
TBHRC44	4" x 4"	.130
TBHRC66*	3 ½" x 3 ½"	.123
⅝" Radius • Plain Bearing • Non Template		
TBHRC5844	4" x 4"	.130
¼" Radius • Two Ball Bearing		
BBRC45	4" x 4"	.130
⅝" Radius • Two Ball Bearing • Non Template		
BBRC5844	4" x 4"	.130
BBRC5835	3 ½" x 3 ½"	.123

Material: Steel, Stainless Steel, Brass

Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	48
½" x 12 – 24	1" x 12		

* Supplied with ½" x 10-24 machine screws and 1" x 9 wood screws, 2 pieces/inner box 100 pieces/carton



CONCEALED BALL BEARING HINGES • Full Mortise Type • Template

Standard Weight Hinges

ITEM #	SIZE	GAUGE
BB2255	5" x 5"	.145
BB2200	4 ½" x 4 ½"	.134
BB22454	4 ½" x 4"	.134
Heavy Weight Hinges		
BB7755	5" x 5"	.190
BB3300	4 ½" x 4 ½"	.190
BB1000	4 ½" x 4"	.190

Special sizes available upon request — Material: Steel, Stainless Steel, Brass

Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	24
½" x 12 - 24	1 ¼" x 12		



FULL SURFACE TYPE HINGES
Standard Weight Ball Bearing • Template

ITEM #	SIZE	GAUGE
FSHBB45 **N.R.P.**	4 ½"	.134

Non-Removable Pin — Material: Steel, Stainless Steel

Size of FH Screws		Pieces Per Box	Pieces Per Carton
Jamb	Door	3	24
½" x 12 – 24OH	2 x ¼" – 20 OH		



HALF MORTISE TYPE HINGES
Standard Weight • Ball Bearing • Template

ITEM #	SIZE	GAUGE
HMBB4100 **N.R.P.**	4 ½"	.134

Size: Available up to 5" upon request — Material: Steel, Stainless Steel Non-Removable Pin

Size of FH Screws		Pieces Per Box	Pieces Per Carton
Jamb	Wood	3	48
½" x 12 - 24OH	½" x 12 - 24MS		
	1 ¼" x 12WS		

NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.



HALF SURFACE TYPE • Standard Weight Hinges • Ball Bearing • Template

ITEM #	SIZE	GAUGE
HSBB4900 N.R.P.	4 ½"	.134

Size: Available up to 5" upon request	Material: Steel, Stainless Steel Non-Removable Pin

Size of FH Screws		Pieces Per Box	Pieces Per Carton
Jamb	Door	3	48
½" x 12 – 24 FH	2 " x ¼ - 20 OS		



SWING CLEAR • Full Mortise Type • Ball Bearing • Template

Two Ball Bearing, Standard Weight, ⅝" Radius Round Corner

ITEM #	SIZE	GAUGE
BB40058	4"	.130
BB35058	3 ½"	.123
Two Ball Bearing,Standard Weight, Square Corner		
BB600	4 ½"	.134
BB400	4"	.130
BB350	3 ½"	.123

Hinge Size	Size of Screws		Pieces Per Box	Pieces Per Carton
	Machine	Wood	2	50
3 ½"	10-24 x ½	10 x 1 F.H.		
4"	12-24 x ½	12 x 1 F.H.		

Four Ball Bearing, Heavy Weight Hinges

BB800	4 ½"	.190

Size: Available up to 5" upon request	Material: Steel, Stainless Steel

Hinge Size	Size of FH Screws		Pieces Per Box	Pieces Per Carton
	Jamb	Door	3	24
4 ½"	½" x 12 - 24	½" x 12 – 24MS 1 ¼" x 12WS		



HOSPITAL TIP
Full Mortise Type • Ball Bearing • Template

Two Ball Bearing, Standard Weight

ITEM #	SIZE	GAUGE
HOSBB31 **N.R.P.**	4 ½" x 4 ½"	.134
Four Ball Bearing, Heavy Weight		
HOSBB5200 **N.R.P.**	4 ½" x 4 ½"	.180
HOSBB5210 **N.R.P.**	5" x 4 ½"	.190

Size: Maximum of 6" x 6" available upon request	Material: Steel, Stainless Steel

Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	48
½" x 12 – 24	1 ¼" x 12		



WIDE THROW HINGES
Full Mortise Type • Standard Weight • Two Ball Bearing • Template

ITEM #	SIZE	GAUGE
WTHBB456	4 ½" x 6"	.134

Size: Maximum of 6" x 6" available upon request	Material: Steel, Stainless Steel

Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	3	48
½" x 12 - 24	1 ¼" x 12		

NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.



SPRING HINGES (Commercial)
Full Mortise Type • Template • Single Acting

ITEM #	SIZE	GAUGE
NEWSH140	4 ½" x 4 ½"	.134
NEWSH454	4 ½" x 4"	.134

Size: 4" x 4" and 3 ½" x 3 ½", available upon request		Material: Steel, Stainless Steel	
Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	2	48
½" x 12 - 24	1 ¼" x 12		



1 set per inner box

COMBINATION HINGES • Full Mortise Type
Set of 2 pcs Spring Hinges (NEWSH140) and 1 pc 2-Ball Bearing Hinges (BB31)

ITEM #	SIZE	GAUGE
BB14031 (SOLD per set)	4 ½" x 4 ½" (2 pcs) Spring Hinges	.134
	4 ½" x 4 ½" (1 pc) 2-Ball Bearing Hinge	.134

Material: Steel, Stainless Steel			
Size of FH Screws		Set Per Box	Sets Per Carton
Machine	Wood	1	16
½" x 12 - 24	1 ¼" x 12		





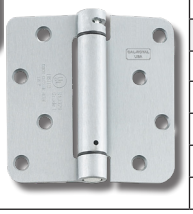
SPRING HINGES (RESIDENTIAL)
Full Mortise Type Template • Single Acting

Round Corner, ¼" Radius (Template)

ITEM #	SIZE	GAUGE
NEWSH44R	4" x 4"	.110
NEWSH35R	3 ½" x 3 ½"	.110
Round Corner, ⅝" Radius (4"x 4" Non Template)		
NEWSH4458R	4" x 4"	.110
NEWSH3558R	3 ½" x 3 ½"	.110
Square Corner, (Template)		
NEWSCSH35	3 ½" x 3 ½"	.110

Material: Steel, Stainless Steel, Brass			
Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	2	48
½" x 12 – 24 w/ #10 Head (4"x4")	1" x 10		
½" x 10 – 24 w/ #10 Head (3½"x 3½")	1" x 10		





Castlegate Combination Square-Round Corner

CSH4458RSRLH (Left Hand)	4" x 4"		.110
CSH4458RSRRH (Right Hand)	4" x 4"		.110
Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	2	48
½" x 10 - 24 w/ #10 Head	1" x 10		
Benchmark Round Corner, ⅝" Radius			
NBENSH4458R	4" x 4"		.110
Material: Steel, Stainless Steel			
Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	2	48
½" x 12 - 24 w/ #10 Head	1" x 10		

NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.





BL ST AC UR

EXTRUDED SOLID BRASS HINGES
Full Mortise Type • Two Ball Bearing • Template

LIFE TIME FINISH

ITEM #	SIZE	GAUGE
LIFSBBH45	4 ½" x 4 ½"	.134
LIFSBBH44	4" x 4"	.130
LIFSBBH35	3 ½" x 3 ½"	.123

STANDARD FINISH

SBBH45	4 ½" x 4 ½"	.134
SBBH44	4" x 4"	.130
SBBH35	3 ½" x 3 ½"	.123

Full Mortise Type • Plain Bearing • Template

STANDARD FINISH

SBH45	4 ½" x 4 ½"	.134
SBH44	4" x 4"	.130
SBH35	3 ½" x 3 ½"	.123

Material: Steel, Stainless Steel, Brass

DECORATIVE TIPS FOR EXTRUDED HINGES (BRASS)

	Unit Ea Per Hinge
Ball Tip (BL), Steeple Tip (ST), Acorn Tip (AC), Urn Tip (UR)	1

Size of Wood Screws		Pieces Per Box	Pieces Per Carton
	3 ½" - 1" x 10		
	4" – 1" x 12	2	60
	4 ½" – 1 ¼" x 12		



CASTLEGATE COMBINATION SQUARE-ROUND CORNER PLAIN BEARING HINGES

ITEM #	SIZE	GAUGE
CAS44R (Right Hand)	4" x 4"	.098
CAS44L (Left Hand)	4" x 4"	.098

Material: Steel, Stainless Steel

Size of Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood		
½" x 12 - 24 w/ #10 Head	1" x 9	2	48



RESIDENTIAL WEIGHT HINGES
Full Mortise Type • Two Ball Bearing • 5 Knuckles

¼" Radius

ITEM #	SIZE	GAUGE
BBRH60	4" x 4"	.097
BBRH61	3 ½" x 3 ½"	.085

⅝" Radius

BBRH40	4" x 4"	.097
BBRH35	3 ½" x 3 ½"	.085

4" x 4" Non Template Type, 3 ½" x 3 ½" Template Type		Material: Steel, Stainless Steel, Brass	
Size of Wood Screws		Pieces Per Box	Pieces Per Carton
4" x 4"	1" x 9	2, Assembled	100
3 ½" x 3 ½"	¾" x 9		



RESIDENTIAL WEIGHT HINGES
Full Mortise Type • Plain Bearing • 5 Knuckles

¼" Radius

ITEM #	SIZE	GAUGE
RH60	4" x 4"	.097
RH60-349*		
RH61	3 ½" x 3 ½"	.085

⅝" Radius

RH40	4" x 4"	.097
RH35	3 ½" x 3 ½"	.085
10RH35*		

Square Corner

RH91	4" x 4"	.097
RH90	3 ½" x 3 ½"	.085
RH33	3" x 3"	.085

4" x 4" Non Template Type, 3 ½" x 3 ½" Template Type		Material: Steel, Stainless Steel, Brass	
Size of Wood Screws		Pieces Per Box	Pieces Per Carton
4" x 4", **3 ½" x 3 ½"***	1" x 9	2, Assembled	100
3 ½" x 3 ½", **4" x 4"***	¾" x 9	100, Unassembled	

NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.



RESIDENTIAL WEIGHT HINGES
Benchmark • Hole Pattern • Bulk Assembled

⅝" Radius

ITEM #	SIZE	GAUGE
BENRH40B	4" x 4"	.085

Material: Steel, Stainless Steel

Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood		
½" x 10-24 per hinge (4)	¾" x #10 (3), #10 x 2" (1)	---	100



RESIDENTIAL WEIGHT HINGES
Full Mortise Type • Plain Bearing • 6 Knuckles • Bulk Unassembled

⅝" Radius

UARH356	3 ½" x 3 ½"	.085

Material: Steel, Stainless Steel, Brass

4" x 4" Non Template Type, 3 ½" x 3 ½" Template Type

Size of Wood Screws		Pieces Per Box	Pieces Per Carton
3 ½" x 3 ½"	¾" x 9	---	100



TIMELY, REDDI FRAME

RESIDENTIAL WEIGHT HINGES
Plain Bearing • Template

¼" Radius

ITEM #	SIZE	GAUGE
TBHRC33	4" x 4"	.097

For use on Metal Frames and Wood Doors

Material: Steel, Stainless Steel, Brass

Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood		
½" x 12 - 24 with #10 Head	1" x 10	3	48



TIMELY, REDDI FRAME

RESIDENTIAL WEIGHT HINGES
Plain Bearing • Template

¼" Radius

ITEM #	SIZE	GAUGE
TBHRC45	3 ½" x 3 ½"	.085

For use on Metal Frames and Wood Doors

Material: Steel, Stainless Steel, Brass

Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood		
½" x 10 - 24 with #9 Head	¾" x 9	2	100

NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.



RESIDENTIAL STAINLESS STEEL HINGES, SQUARE CORNER
Full Mortise Type • Residential Weight • Plain Bearing

ITEM #	SIZE	GAUGE
LTBHSC55	4" x 4"	.080
LTBHSC77	3 ½" x 3 ½"	.080
LTBHSC33	3" x 3"	.080

Material: Stainless Steel

Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	2	100
N/A	¾" x 9		

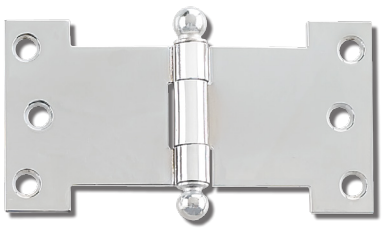


RESIDENTIAL HEAVY WEIGHT SQUARE BARREL HINGES
Full Mortise Type • Plain Bearing • Template

ITEM #	SIZE	GAUGE
SQH-45	4 ½" x 4 ½"	.180
SQH-44	4" x 4"	.180
SQH-35	3 ½" x 3 ½"	.180

Material: Brass

			Pieces Per Box	Pieces Per Carton
Size of Wood Screws	4 ½" x 4 ½"	1 ¼" x 12	2	48
	4" x 4"			
	3 ½" x 3 ½"	1" x 10		

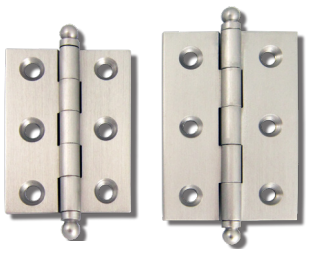


PARLIAMENT HINGES
Full Mortise Type • Plain Bearing • Template

ITEM #	SIZE	GAUGE
PARH458C	4 ⅝" x 2 ½"	.093
PARH4B	4" x 2 ½"	.093
PARH3A	3" x 2 ¼"	.093

Material: Brass

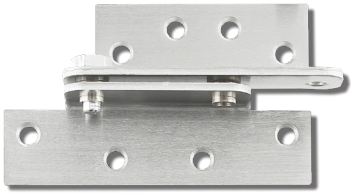
Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	2	100
N/A	¾" x 9		



SOLID BRASS CABINET HINGES

ITEM #	SIZE	GAUGE
CABH-2015	2" x 1 ½"	.084
CABH-2517	2 ½" x 1 ½"	.084

Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	25	250
N/A	¾" x 6		



REINFORCING PIVOT HINGES

ITEM #	SIZE	GAUGE
RPH45	4 ½"	.187
RPH45SHIM	⅛" Shim plate for RPH45 (Used for doors with ⅛" Reveal)	

Material: Steel

Size of FH Screws		Pieces Per Box	Pieces Per Carton
Machine	Wood	2	100
½" x 10 - 24	¾" x 10		

NOTE: All hinges are sold with a minimum order quantity (MOQ) equal to or exactly divisible by the inner box quantity specified in the catalog or price book.

HINGE SCREWS

STEEL SCREWS FOR CONTRACT GRADE SIZE 4", 4.5" and 5"

	ITEM #	FINISH
	**MACHINE ½" x 12-24 FPHM**	
	MSC1224	USP, US26D, US10A, US10B, US10, US4, US3, US26, DURO, US32D
	**WOOD 1 ¼" x 12 FPHW**	
	WSC11412	USP, US26D, US10A, US10B, US10, US4, US3, US26, DURO, US32D
	**WOOD 1" x 12 FPHW**	
	WSC11299	USP, US26D, US10A, US10B, US10, US4, US3, US26, US15, DURO

STEEL SCREWS FOR RESIDENTIAL HINGES (4" x 4" and 3 ½" x 3 ½")

	**WOOD 1" x 9 with flycut (4" x 4" size hinge)**	
	TWSC19	US26D, US10A, US4, US3, US26
	**WOOD ¾" x 9 with flycut (3 ½" x 3 ½" size hinge)**	
	RESWC349	US26D, US10A, US4, US3, US26

STEEL SCREWS FOR TBHRC33 AND TBHRC45, 4" x 4" and 3 ½" x 3 ½" TIMELY HINGES, 4" x 4" and 3 ½" x 3 ½" SPRING HINGES, 3 ½" x 3 ½" CONTRACT GRADE HINGES

	**MACHINE ½" x 12-24 with #10 head FPHM (4" x 4" size hinge, ¼" radius)**	
	TMC1224	USP, US26D, US10A, US4, US3, US26, US28, US15, US10B, DURO
	**MACHINE ½" x 10-24 with #10 head FPHM (4" x 4" Size Hinge, ⅝" radius)**	
	TMC10244458R	USP, US26D, US10A, US4, US3, US26, US10B, DURO
	**WOOD 1" x 10 FPHW (4" x 4" size hinge)**	
	TWSC110	USP, US26D, US10A, US4, US3, US26, US15, US10B, US15A, USP, DURO
	**MACHINE ½" x 10-24 No. 9 HEAD FPHM (3 ½" x 3 ½" size hinge)**	
	TMC121024	USP, US26D, US10A, US4, US3, US26, US10B, US32D, DURO
	**WOOD ¾" x 9 FPHW (3 ½" x 3 ½" size hinge)**	
	RESWC349	USP, US26D, US10A, US4, US3, US26, US28, US10B, US15, US15A, DURO

ARCHITECTURAL HINGES

TYPE	CAL-ROYAL	ANSI	HAGER	STANLEY	MCKINNEY	PBB
Steel / Stainless 2 Ball Bearings	BB55 5" x 5" BB545 5" x 4 ½" BB54 5" x 4" BB31 4 ½" x 4 ½" BB454 4 ½" x 4" BBSC56 4" x 4" BBRC45 4" x 4" (¼" Rad.) BBSC77 3 ½" x 3 ½" Stainless Steel, add 32D after part#	A8112 A5112 (Stainless Steel)	BB1279 BB1191 (Stainless Steel)	FBB179 FBB191 (Stainless Steel)	TB2714 TB2314 (Stainless Steel)	BB81 BB51 (Stainless Steel)
Steel / Stainless Plain Bearing	TBH30 4 ½" x 4 ½" TBH454 4 ½" x 4" TBHSC55 4" x 4" TBHRC44 4" x 4" (¼" Rad.) TBHSC77 3 ½" x 3 ½" TBHRC66 3 ½" x 3 ½" (¼" Rad.) Stainless Steel, add 32D after part#	A8133 A5133 (Stainless Steel)	1279 1191 (Stainless Steel)	F179 F191 (Stainless Steel)	T2714 T2314 (Stainless Steel)	PB81 PB51 (Stainless Steel)
Brass, 2 Ball Bearings	SBBB31 4 ½" x 4 ½"	A2112	BB1191	FBB191	TB2314	BB21
Brass, Plain Bearing	SBTBH30 4 ½" x 4 ½"	A2133	1191	F191	T2314	PB21
Steel, Half Mortise, 2 Ball Bearings	HMBB4100 4 ½" Stainless Steel, add 32D after part#	A8212	BB1129	FBB167	TB2774	BB82
Steel, Half Surface, 2 Ball Bearings	HSBB4900 4 ½" Stainless Steel, add 32D after part#	A8412	BB1173	FBB173	TB2772	BB84
Steel, Swing Clear, 2 Ball Bearings	BB600 4 ½"	A8122	BB1260	FBB248	TB2895	SC81
Steel, Bearing Concealed	BB2200 4 ½" x 4 ½" Stainless Steel, add 32D after part#	A8112	BB700	CB1900	TA714	CB81
"UL" Spring Hinge, Commercial	NEWSH140 4 ½" x 4 ½" NEWSH454 4 ½" x 4" Stainless Steel, add 32D after part#	K8107-1F	1250	2060	1502	SP81
"UL" Spring Hinge, Commercial / Residential	NEWSH4458R 4" x 4", (⅝" Rad.) NEWSH44R 4" x 4", (¼" Rad.) NEWSH35R 3 ½" x 3 ½" (¼" Rad.) NEWSH3558R 3 ½" x 3 ½" (⅝" Rad.)	K81071 F	1251	2060	1502	RS81
Steel, 4 Ball Bearings, Heavy Gauge	BB5210 5" x 4 ½" BB5254 5" x 4" BB5200 4 ½" x 4 ½" BB52454 4 ½" x 4" Stainless Steel, add 32D after part#	A8111 A5111 (Stainless Steel)	BB1168 BB1199 (Stainless Steel)	FBB168 FBB199 (Stainless Steel)	T4B3786 T4B3386 (Stainless Steel)	4B81 4B51 (Stainless Steel)

◊◊◊ All hinges above are available in steel, brass and stainless steel. Brass base prefix "SB" before part #. Stainless steel add US32D after part #. Consult factory for more information on hinge comparisons not shown.

CAL-ROYAL PRODUCTS, INC.

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A156.1-2016 - Butts and Hinges
COMMERCIAL GRADE 1 HINGES

ANSI TYPE	HINGE TYPE	GRADE	CAL-ROYAL PART #
A5112	4 ½" X 4 ½" FULL MORTISE / 2 BALL BEARING	2	BB31
A5112	4 ½" X 4" FULL MORTISE / 2 BALL BEARING	2	BB454
A5111	4 ½" X 4 ½" FULL MORTISE/ 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB5200
A5111	4 ½" X 4" FULL MORTISE / 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB52454
A5111	5" X 5" FULL MORTISE / 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB5500
A5111	5" X 4 ½" FULL MORTISE / 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB5210
A8112	4 ½" X 4 ½" FULL MORTISE / 2 BALL BEARING	2	BB31
A8112	4 ½" X 4 ½" FULL MORTISE / 2 BALL BEARING	2	BB454
A8111	4 ½" X 4 ½" FULL MORTISE / 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB5200
A8111	4 ½" X 4" FULL MORTISE / 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB52454
A8111	5" X 5" FULL MORTISE / 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB5500
A8111	5" X 4 ½" FULL MORTISE / 4 BALL BEARING HEAVY WEIGHT HINGE	1	BB5210
A5133	4 ½" X 4 ½" FULL MORTISE / STANDARD WEIGHT, PLAIN BEARING	3	TBH30
A8133	4 ½" X 4 ½" FULL MORTISE / STANDARD WEIGHT, PLAIN BEARING	3	TBH30

NOTES: ALL HINGES ARE STEEL AND ANYTHING THAT IS ORDERED WITH 32D IS STAINLESS STEEL. ALL HINGES ARE ANSI TEMPLATES AND HINGE TESTING CONFORMS TO ANSI A156.1.

CAL-ROYAL PRODUCTS, INC. USA

CRP SECURITIES USA



Five knuckle non-rising removable pin, button tip and plug.

FULL MORTISE TEMPLATE HINGES
Plain Bearing . Standard Weight
Brass ANSI A2133
Stainless Steel ANSI A5133
with stainless steel pin
Steel with steel pin ANSI A8133

Cal-Royal Part #	Size Open (Inches)	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
TBHSC33	3" x 3"	.119	6	½ x 12-24	1 x 9	2 Ea.	100
TBHSC77 TBHRC66 (RC) ¼" Rad	3 ½" x 3 ½"	.119	6	½ x 10-24	1 x 9	2 Ea.	100
TBHSC55 TBHRC44 (RC) ¼" Rad TBHRC5844 (RC) ⅝" Rad	4" x 4"	.129	8	½ x 12-24	1 x 12	3 Ea.	48
TBHSC435	4" x 3 ½"	.119	8	½ x 12-24	1 x 12	3 Ea.	48
TBH30	4 ½" x 4 ½"	.134	8	½ x 12-24	1 ¼ x 12	3 Ea.	48
TBH454	4 ½" x 4"	.134	8	½ x 12-24	1 ¼ x 12	3 Ea.	48
TBH54	5" x 4"	.145	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
TBH545	5" x 4 ½"	.145	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
TBH55	5" x 5"	.145	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
TBH645	6" x 4 ½"	.160	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
TBH65	6" x 5"	.160	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
TBH66	6" x 6"	.160	10	½ x ¼-20	1 ½ x 14	3 Ea.	24

CAL-ROYAL PRODUCTS, INC. Template hinges are manufactured to close tolerances and meet all specifications and requirements set by the American National Standards Institute (ANSI A156.7). **All hinges are ANSI templates. All hinges above are available in steel, brass and stainless steel base. Brass base prefix "SB" before part #. Stainless steel add 32D after part #. All hinges above are packed with all wood and machine screws.**



Five knuckle two ball bearings, non-rising removable pin, button tip and plug.

FULL MORTISE TEMPLATE HINGES
Ball Bearing . Standard Weight
Brass ANSI A2112
Stainless Steel ANSI A5112
with stainless steel pin
Steel with steel pin ANSI A8112

Cal-Royal Part #	Size Open (Inches)	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
BBSC33	3" x 3"	.123	6	½ x 10-24	1 x 9	2 Ea.	100
BBSC77	3 ½" x 3 ½"	.123	6	½ x 10-24	1 x 9	2 Ea.	100
BBRC5835	3 ½" x 3 ½"	.123	6	½ x 10-24	1 x 9	2 Ea.	100
BBSC56 BBRC45 (RC) ¼" Rad BBRC5844 (RC) ⅝" Rad	4" x 4"	.129	8	½ x 12-24	1 x 12	3 Ea.	48
BBSC435	4" x 3½"	.119	8	½ x 12-24	1 x 12	3 Ea.	48
BB454	4 ½" x 4"	.134	8	½ x 12-24	1 ¼ x 12	3 Ea.	48
BB31	4 ½" x 4 ½"	.134	8	½ x 12-24	1 ¼ x 12	3 Ea.	48
BB54	5" x 4"	.145	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB545	5" x 4 ½"	.145	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB55	5" x 5"	.145	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB645	6" x 4 ½"	.160	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
BB65	6" x 5"	.160	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
BB66	6" x 6"	.160	10	½ x ¼-20	1 ½ x 14	3 Ea.	24

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LIFETIME WARRANTY

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FULL MORTISE TEMPLATE HINGES
Ball Bearing . Heavy Weight
Brass ANSI A2111
Stainless Steel ANSI A5111
with stainless steel pin
Steel with steel pin ANSI A8111

Five knuckle four ball bearings, non-rising removable pin, button tip and plug.

Cal-Royal Part #	Size Open (Inches)	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
BB52454	4 ½" x 4"	.180	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB5200	4 ½" x 4 ½"	.180	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB5254	5" x 4"	.190	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB5210	5" x 4 ½"	.190	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB5500	5" x 5"	.190	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB6450	6" x 4 ½"	.190 Stainless Steel .203 Steel & Brass	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
BB6500	6" x 5"	.190 Stainless Steel .203 Steel & Brass	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
BB6600	6" x 6"	.190 Stainless Steel .203 Steel & Brass	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
BB8600	8" x 6"	.190 Stainless Steel .203 Steel & Brass	16	½ x ¼-20	1½ x 14	3 Ea.	12
BB8800	8" x 8"	190 Stainless Steel .203 Steel & Brass	16	½ x ¼-20	1 ½ x 14	3 Ea.	12

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LIFETIME WARRANTY

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CRP SECURITIES USA

CAL-ROYAL PRODUCTS, INC. USA

FULL MORTISE TEMPLATE HINGES
Concealed Ball Bearing . Heavy Weight
Brass ANSI A2111
Stainless Steel ANSI A5111
with stainless steel pin
Steel with steel pin ANSI A8111

Three knuckles with concealed ball bearings, non-rising removable pin, concealed pin head and plug

Cal-Royal Part #	Size Open (Inches)	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
BB1000	4 ½" x 4"	.180	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB3300	4 ½" x 4 ½"	.180	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB7754	5" x 4"	.190	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB77545	5" x 4 ½"	.190	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB7755	5" x 5"	.190	8	½ x 12-24	1 ¼ x 12	3 Ea.	24
BB77645	6" x 4 ½"	.190 Stainless Steel .203 Steel & Brass	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
BB7765	6" x 5"	.190 Stainless Steel .203 Steel & Brass	10	½ x ¼-20	1 ½ x 14	3 Ea.	24
BB7766	6" x 6"	.190 Stainless Steel .203 Steel & Brass	10	½ x ¼-20	1 ½ x 14	3 Ea.	24

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LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

FULL MORTISE TEMPLATE HINGES
Concealed Ball Bearing . Standard Weight
Brass ANSI A2112
Stainless Steel ANSI A5112
with stainless steel pin
Steel with steel pin ANSI A8112

Three knuckles with concealed ball bearings, non-rising removable pin, concealed pin head and plug

Cal-Royal Part #	Size Open (Inches)	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
BB223535	3 ½" x 3 ½"	.119	6	½ x 10-24	1 x 9	2	100
BB224040	4" x 4"	.129	8	½ x 12-24	1 ¼ x 12	3	48
BB22454	4 ½" x 4"	.134	8	½ x 12-24	1 ¼ x 12	3	48
BB2200	4 ½" x 4 ½"	.134	8	½ x 12-24	1 ¼ x 12	3	48
BB2254	5" x 4"	.145	8	½ x 12-24	1 ¼ x 12	3	24
BB22545	5" x 4 ½"	.145	8	½ x 12-24	1 ¼ x 12	3	24
BB2255	5" x 5"	.145	8	½ x 12-24	1 ¼ x 12	3	24

CAL-ROYAL PRODUCTS, INC. Template hinges are manufactured to close tolerances and meet all specifications and requirements set by the American National Standards Institute (ANSI A156.7). **All hinges are ANSI templates. All hinges above are available in steel, brass and stainless steel base. Brass base prefix "SB" before part #. Stainless steel add 32D after part #. All hinges above are packed with all wood and machine screws.**

SPRING HINGE
Full Mortise . Template . Single Acting
Steel ANSI K81071F



NEWSH35R
(3 ½" x 3 ½")



NEWSH4458R
(4" x 4")



NEWSH44R
(4" x 4")



NEWSH140
(4 ½" x 4 ½")

Cal-Royal Part #	Size Open (Inches)	Gauge of Metal	Number of Holes	Machine Screw Size	Wood Screw Size	Inner Box Quantity	Pieces/ Case
NEWSH35R (RC) ¼" Rad	3 ½" x 3 ½"	.115	6	½ x 10-24	1 x 9	2	48
NEWSH3558R (RC) ⅝" Rad	3 ½" x 3 ½"	.115	6	½ x 10-24	1 x 9	2	48
NEWSCSH35	3 ½" x 3 ½"	.115	6	½ x 10-24	1 x 9	2	48
NEWSH44R (RC) ¼" Rad Template	4" x 4"	.115	8	½ x 12-24 with #10 head	1 x 10	2	48
NEWSH4458R (RC) ⅝" Rad Non- Template	4" x 4"	.115	8	½ x 12-24 with #10 head	1 x 10	2	48
NBENSH4458R (RC) ⅝" Rad (Benchmark)	4" x 4"	.115	8	½ x 12-24 with #10 head	1 x 10	2	48
NEWSH454	4 ½" x 4"	.134	8	½ x 12-24	1 ¼ x 12	2	48
NEWSH140	4 ½" x 4 ½"	.134	8	½ x 12-24	1 ¼ x 12	2	48

CAL-ROYAL PRODUCTS, INC. Template hinges are manufactured to close tolerances and meet all specifications and requirements set by the American National Standards Institute (ANSI A156.7). **All hinges are ANSI templates. Hinge testing conforms to ANSI A156.1. All hinges above are available in steel and stainless steel base. Add 32D after part # for stainless steel hinges. All hinges above are packed with all wood and machine screws.**

Maximum Door Sizes & Weights

Size	Recommended Max Door Weight (Lbs)	*Spring Hinges	**Butt Hinges** Labeled Doors Require Ball Bearing Hinges
3 ½" (Full Mortise)	50	2 Ea.	1 Ea.
	70	2 Ea.	1 Ea.
	90	3 Ea.	-----
4" (Full Mortise)	60	2 Ea.	1 Ea.
	85	2 Ea.	1 Ea.
	110	3 Ea.	-----
4 ½" (Full Mortise)	70	2 Ea.	1 Ea.
	115	2 Ea.	1 Ea.
	150	3 Ea.	-----

HINGE SELECTION

***Notes:** Wind conditions, excessive air pressure on one side of opening, or other adverse job conditions may require the use of all spring hinges. For maximum versatility use all spring hinges. U/L listed spring hinges are not available with reverse springs.


CAL-ROYAL
PRODUCTS, INC.
USA
CRPG
SECURITIES
USA
LIFETIME
WARRANTY

Standard Lengths

Cal-Royal continuous hinge length provides for actual threshold clearance, head clearance and door height allowances for carpeting. Other lengths may be ordered as non-standard items. Our standard actual lengths are 83" (7'0" opening), 95" (7'2" to 8'0" opening).

Special Lengths

Special lengths are considered non-standard items and may not be grouped with standard items or other Cal-Royal Products, to achieve a lower discount. Any Changes to the special length products may be subject to charges for work in process. Templates available on request and on website.

Field Modifications

Cal-Royal continuous hinges can be cut in the field, however, any product modifications may void all warranties. If field modifications must be made, cut only the underside or bottom of the hinge.

Standard Finishes

Cal-Royal continuous hinges are available in either Clear Anodized Aluminum (US28) or Dark Bronze Anodized (Duranodic 313 or equivalent). Special finishes are available subject to quantity & factory lead time

Fire Ratings - Underwriters Laboratory Fire Rating			
FIRE RATED CAL-ROYAL	FULL CONCEALED	HALF SURFACE	FULL SURFACE
SURFACE	U/L---FF	U/L---FF	U/L---FF
90 Minute Fire Rated Wood Door x Fire Rated Hollow Metal Frame	* U/L---Stud	U/L---Stud	U/L---Stud
90 Minute Fire Rated Metal Door x Fire Rated Hollow Metal Frame	U/L---FF	U/L---FF	U/L---FF
3 Hour Fire Rated Hollow Metal Door x Fire Rated Hollow Metal Frame	*U/L---Stud	U/L---Stud	U/L---Stud
Maximum Size of Single Rated Door Leaf 4'0" Wide x 10'0" High			
Maximum Rated Opening Size for Single Door 4'0" Wide x 10'0" High			

* Devices for which Studs are required

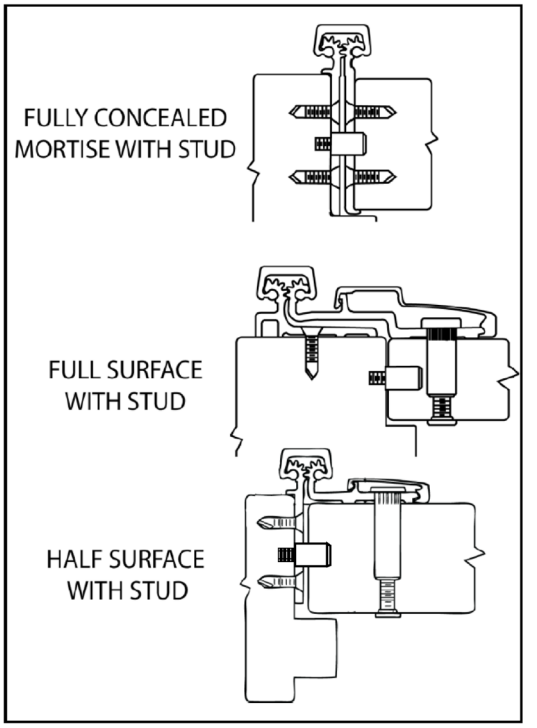
Cal-Royal continuous hinges are approved for use on swing type doors of hollow metal, tinclad, sheet-metal and steel covered composite type rated up to and including 3 hours. Wood composite doors rated up to and including 1½ hours.

Fully Concealed - These models are concealed between the rabbet of the frame and the hinge edge of the door.
Models available: ***CRHD781110, CRHD781120, CRHD782240***

Full Surface - These models have the frame leaf mounted to the face of the frame and the face of the door. The door leaf is mounted to the door with through bolts.
Models available: ***CRHD780570, CRHD781570, CRHD782100***

Half Surface – These models have the frame leaf concealed between the rabbet of the frame and the edge of the door. The door leaf is mounted to the face of the door with sex bolts or screws.

Models available: CRHD780530

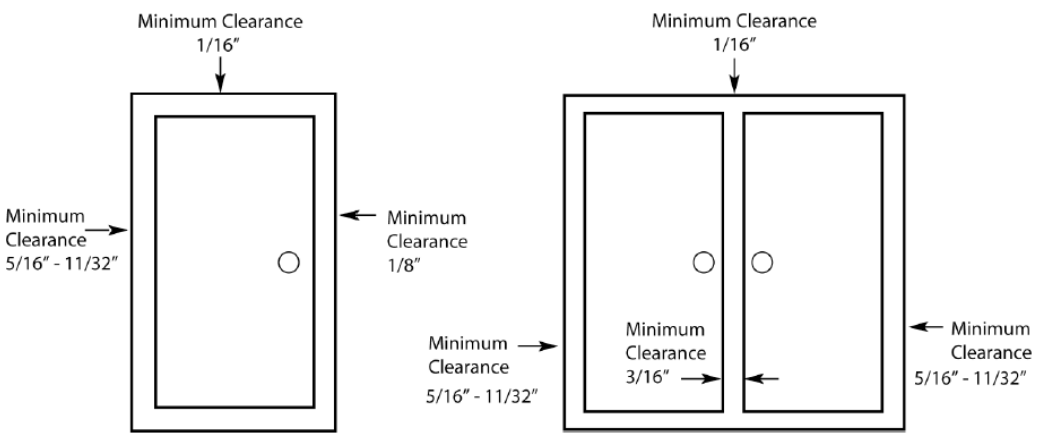


Dimensioning Door and Frame ---- Full Concealed Mortised Models CRHD781110, CRHD781120, CRHD782240

The Above models are primarily used for new doors and frames. Both leaves are fully Mortised. They can also be used on renovations for a new door with an existing frame or an existing door with a new frame. These hinges will cover existing standard full Mortise hinge preps.

Required Clearance

Single Doors (Square Edged)	STANDARD		METRIC
A. Thickness of Hinge	5/16”	(10/32”)	8.0 mm
B. Allowances for frame irregularities	1/32”	(1/32”)	0.8 mm
C. Single Door Clearance on lock side	1/8”	(4/32”)	3.2 mm
	Total	15/32”	12.0 mm
Single Doors (Beveled Edged)			
A. Thickness of Hinge	5/16”	(10/32”)	8.0 mm
B. Allowances for frame irregularities	1/32”	(1/32”)	0.8 mm
C. Single Door Clearance on lock side	1/8”	(4/32”)	3.2 mm
D. Allowance for beveled edge	1/32”	(1/32”)	0.8 mm
	Total	16/32”	12.8 mm
Pairs of Doors (Square Edged)			
A. Thickness of Hinge	5/16”	(10/32”)	8.0 mm
B. Allowances for frame irregularities	1/32”	(1/32”)	0.8 mm
C. Recommended Edge to Edge clearance	3/16”	(6/32”)	4.8 mm
D. Second allowance for frame irregularities	1/32”	(1/32”)	0.8 mm
E. Second hinge thickness	5/16”	(10/32”)	8.0 mm
	Total	28/32”	22.4 mm
Pairs of Doors (Beveled Edge)			
A. Thickness of Hinge	5/16”	(10/32”)	8.0 mm
B. Beveled Edge allowance	1/32”	(1/32”)	0.8 mm
C. Allowances for frame irregularities	1/32”	(1/32”)	0.8 mm
D. Recommended Edge to Edge clearance	3/16”	(6/32”)	4.8 mm
E. Second allowance for frame irregularities	1/32”	(1/32”)	0.8 mm
F. Second allowance for beveled edge	1/32”	(1/32”)	0.8 mm
G. Second hinge thickness	5/16”	(10/32”)	8.0 mm
	Total	30/32”	24.0 mm



Determining Door & Frame Dimensions - Full Surface Models CRHD780570, CRHD781570, CRHD782100

The Above models require no special dimensioning, they are designed for retrofit applications. Full Surface models are designed to be mounted to the exposed surface of the door and frame. Additional clearance is not needed except for door and frame painting.

Required Clearance

Single Doors (Square & Beveled Edge)	STANDARD		METRIC
A. Thickness of Hinge	0”	(0”)	0.0 mm
B. Additional allowance for door and frame painting (optional)	1/32”	(1/32”)	0.8 mm
C. Clearance for Single Door Lock side	1/8”	(4/32”)	3.2 mm
	TOTAL	5/32”	4.0 mm

Required Clearance

Single Doors (Square & Beveled Edge)	STANDARD		METRIC
A. Thickness of Hinge	0”	(0”)	0.0 mm
B. Frame Irregularities, additional allowance	1/32”	(1/32”)	0.8 mm
C. Recommended clearance, edge to edge	3/16”	(6/32”)	4.8 mm
D. Frame irregularities, second allowance	1/32”	(1/32”)	0.8 mm
E. Second hinge thickness	0”	(0”)	0.0 mm
	TOTAL	8/32”	6.4 mm

Note: Additional clearance may be required for paint or weatherstripping

Determining Door & Frame Dimensions - Half Surface Models CRHD780530

The Above model is designed for use in new doors and frames wherein one leaf is concealed and one leaf is surface mounted. This can also be used in retrofit applications in cases where a new door is installed on an existing frame. Half Surface models are designed for one leaf to be mounted to the exposed surface of the door and the other leaf is concealed on the frame.

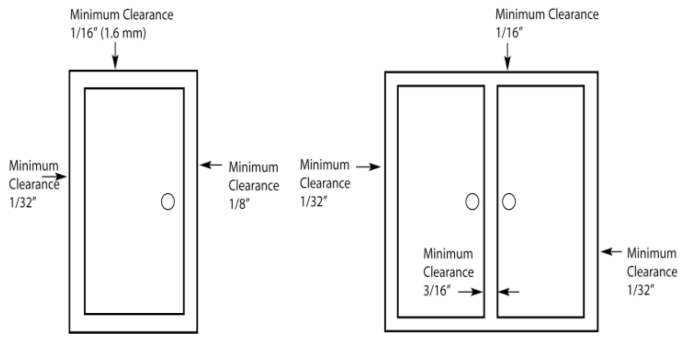
Required Clearance

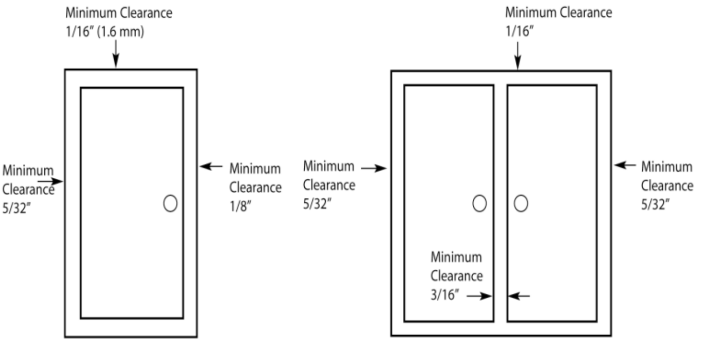
Single Doors (Square & Beveled Edge)	STANDARD		METRIC
A. Thickness of Hinge	1/8”	(4/32”)	3.2 mm
B. Additional allowance for door and frame painting (optional)	1/32”	(1/32”)	0.8 mm
C. Clearance for Single Door Lock side	1/8”	(4/32”)	3.2 mm
	TOTAL	9/32”	7.2 mm

Required Clearance

Single Doors (Square & Beveled Edge)	STANDARD		METRIC
A. Thickness of Hinge	1/8”	(4/32”)	3.2 mm
B. Frame Irregularities, additional allowance	1/32”	(1/32”)	0.8 mm
C. Recommended clearance, edge to edge	3/16”	(6/32”)	4.8 mm
D. Frame irregularities, second allowance	1/32”	(1/32”)	0.8 mm
E. Second hinge thickness	1/8”	(4/32”)	3.2 mm
	TOTAL	8/32”	12.8 mm

Note: Additional clearance may be required for paint or weatherstripping





Concealed / Mortise Leaf • Any Door Material • Heavy Duty

Heavy Duty for high frequency 1 ¾" doors or heavy medium frequency doors up to 450 lbs.

CRHD781110 (Heavy Duty), CRHD781120 (Heavy Duty), CHRHD782240 (Heavy Duty)

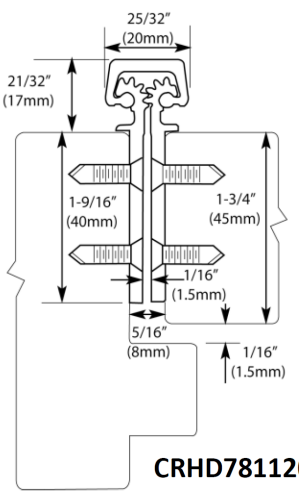
MODEL#	LENGTH		SCREW COUNT		CLEARANCE
	IN	CM	DOOR	JAMB	
CRHD781110	83	210.8	19	19	5/16" (8mm) hinge side plus standard lockside clearance
CRHD781110	95	241.3	19	19	
CRHD781120	83	210.8	19	19	
CRHD781120	95	241.3	19	19	
CRHD782240	83	210.8	19	19	
CRHD782240	95	241.3	19	19	

- **FASTENERS:** Self-Tapping screws

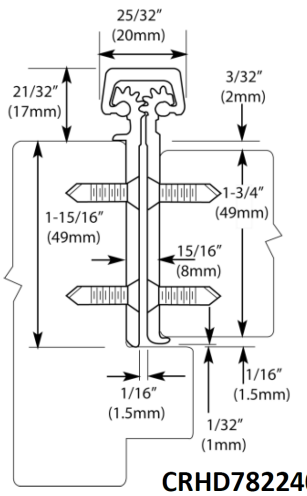
  Full Mortise Hinges

  1. All fasteners are No. 12-24 x 1/16" Type C, FHUC
     a. Heavy Duty Hinges - 10 required for each leaf
     b. Wood Screw - on request (specify on order)

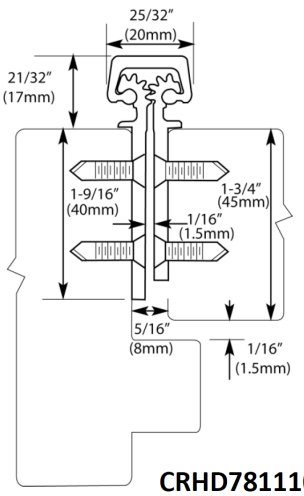
- **LENGTH OPTIONS:** 83" & 95"
- **DOOR REINFORCEMENT:** None needed to 200lbs.
  Use 16 gauge channel over 200 lbs.
- **FIRE RATING:** Up to 3 Hours
- **SPECIAL FEATURES:** For new construction
  For renovation with new doors and/or frames
  No mortising of doors or frames required
  Will cover hinge cut outs in frames
  Flush mount no inset
  Frame and door leaf alignment ribs for proper hinge location
- **ELECTRIFICATION:** Available. See page 26



CRHD781120



CRHD782240



CRHD781110

Full Surface • Any Door Material • Heavy Duty

Heavy Duty for high frequency 1 ¾" doors or heavy medium frequency doors up to 450 lbs.

CRHD781570 (Heavy Duty), CRHD782100 (Heavy Duty), CRHD780570 (Heavy Duty)

MODEL#	LENGTH		SCREW COUNT		CLEARANCE
	IN	CM	DOOR	JAMB	
CRHD781570	83	210.8	19	19	1/32" (1mm) minimum recommended for hinge side plus standard lock case clearance
CRHD781570	95	241.3	20	20	
CRHD782100	83	210.8	19	19	1/32" (1mm) minimum recommended for hinge side plus standard lock case clearance 1 5/8" (41mm) minimum frame face required plus 3/16" (5mm) rotational clearance
CRHD782100	95	241.3	20	20	
CRHD780570	83	210.8	8	8	1/32" (1mm) minimum required between doors
CRHD780570	95	241.3	9	9	

- **FASTENERS:**

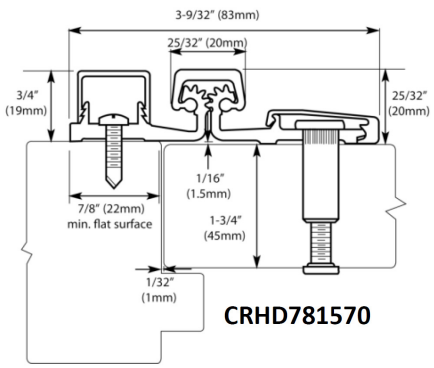
  Self-Tapping screws

  Full Surface Hinges

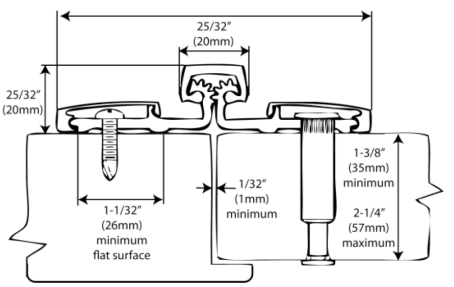
  1) Frame Portion
     a) All fasteners are No. 12-24 x 1/16" Type C, FHUC
        i) Heavy Duty Hinges - 10 required for each leaf
        ii) Wood Screw - on request (specify on order)

  2) Door Portion
     a) Thrubolt ¼ -20 x 1 5/8" PCH
        i) Heavy Duty Hinges – 6 required for each leaf
     b) Shoulder bolt ¼ -20 x 1" PCH
        i) Heavy Duty Hinges – 6 required
     c) Pan Head Self Drilling No. 12 x ¾"
        i) Heavy Duty Hinges – 4 required

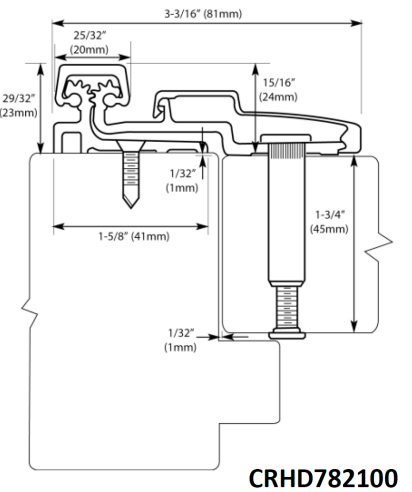
- **LENGTH OPTIONS:** 83" & 95"
- **DOOR REINFORCEMENT:** None needed
- **FRAME REINFORCEMENT:** None needed to 200 lbs.
  Use 16 gauge channel over 200 lbs
- **FIRE RATING:** Up to 3 Hours.
- **SPECIAL FEATURES:** Replacement for existing doors and frames
  7/8" minimum frame
  1/16" inset



CRHD781570



CRHD780570



CRHD782100

Half Surface • Any Door Material • Heavy Duty

Heavy Duty for high frequency 1 ¾" doors or heavy medium frequency doors up to 450 lbs.

CRHD780530 (Heavy Duty)

MODEL#	LENGTH		SCREW COUNT		CLEARANCE
	IN	CM	DOOR	JAMB	
CRHD780530	83	210.8	8	9	5/32" (4mm) minimum recommended hinge side plus standard lockside clearance
CRHD780530	95	241.3	19	19	

- **FASTENERS:**

Self-Tapping screws

Full Surface Hinges

1) Frame Portion

a) All fasteners are No. 12-24 x 1/16" Type C, FHUC

i) Heavy Duty Hinges - 10 required for each leaf

ii) Wood Screw - on request (specify on order)

2) Door Portion

a) Thrubolt ¼ -20 x 1 ⅝" PCH

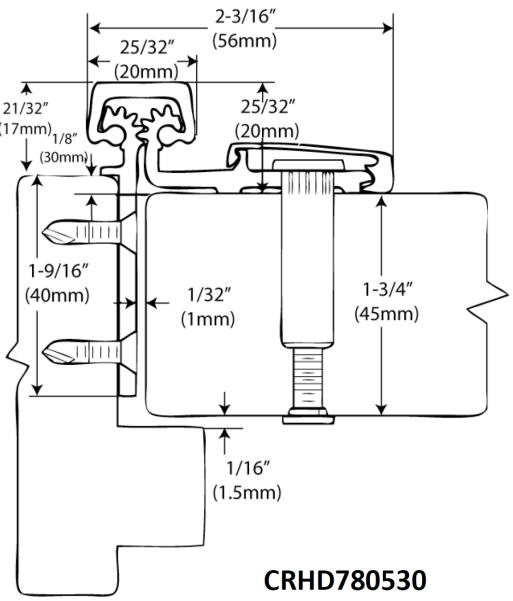
i) Heavy Duty Hinges – 6 required for each leaf

b) Shoulder bolt ¼ -20 x 1" PCH

i) Heavy Duty Hinges – 6 required

c) Pan Head Self Drilling No. 12 x ¾"

i) Heavy Duty Hinges – 4 required

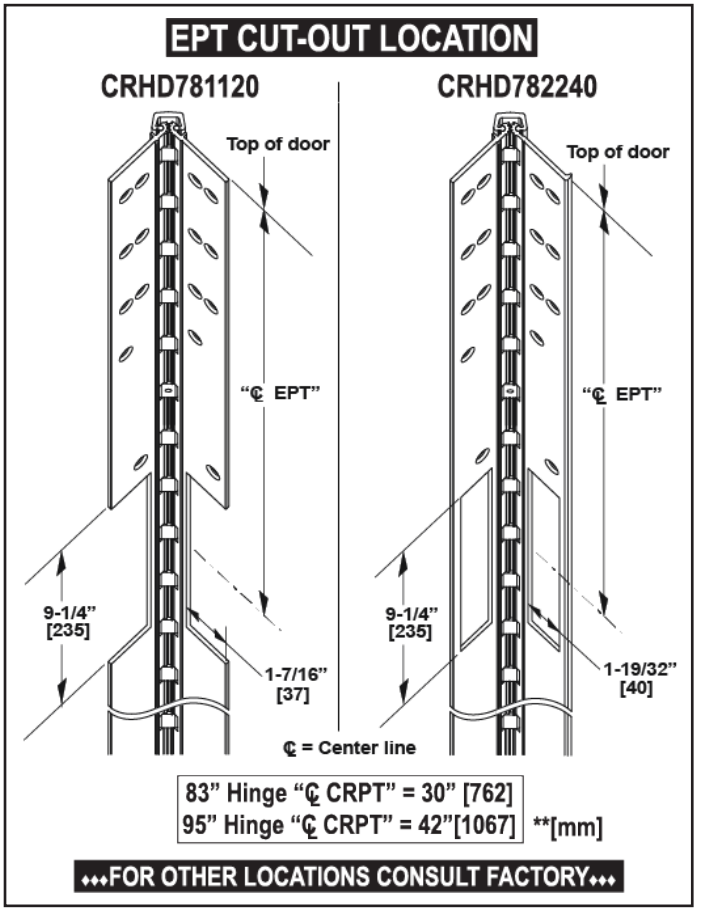


CRHD780530

- **LENGTH OPTIONS:** 83" & 95"
- **DOOR REINFORCEMENT:** None needed
- **FRAME REINFORCEMENT:** None needed to 200 lbs.
  Use 16 gauge channel over 200 lbs
- **FIRE RATING:** Up to 3 Hours.
- **SPECIAL FEATURES:** For new construction
  For renovation with new doors and / or frames
  No mortising of doors or frames required
  Will cover hinge cut outs in frames
  Flush mount no inset
  Frame and door leaf alignment ribs for proper hinge location

► Electrification

ITEM#	NO. OF WIRES	CONTINUOUS HINGE ELECTRIFICATION MODIFICATIONS FOR CRHD781120 AND CRHD782240 ONLY
CET8CRHD781120 CLR	8	Removable 12" Aluminum Gear Hinge Can easily be removed for adjustment and service.
CET8CRHD781120 DB		
CET8CRHD782240 CLR		
CET8CRHD782240 DB		
EPT	--	Cut-out according to Von Duprin Part # EPT-10 and Cal-Royal CRPT-10, CRPT-10C and CRPT-2 location





CET8CRHD782240



CET8CRHD781120

●●●

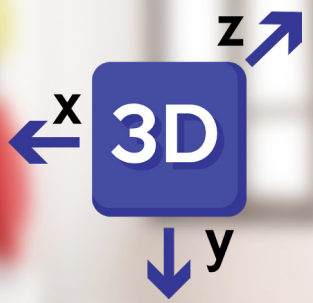
CONTINUOUS HINGE MODEL CROSS REFERENCE

CAL-ROYAL	ROTON	PEMKO	MARKAR	MCKINNEY	ZERO	STANLEY	ABH	SELECT
CRHD781120	780-112HD	FMSLFHD	FM2000	MCK12HD	910DB	661HD	A110HD	SL11HD
CRHD782240	780-224HD	FMHD	FM2001	MCK25HD	914DB	662HD	A240HD	SL24HD
CRHD781570	780-157HD	FSCPHD	---	MCK58HD	935DB	664HD	A570HD	SL57HD
CRHD782100	780-210HD	FSHD	FM2009	MCK22HD	930DB	665HD	A210HD	SL21HD
CRHD781110	780-111HD	FMSLIHD	---	MCK-14HD	---	---	A111HD	SL18HD
CRHD780530	780-053HD	---	---	---	925DB	---	A530HD	SL53HD
CRHD780570	---	---	FS 2002	---	---	---	A571HD	SL60HD

CAL-ROYAL PRODUCTS, INC. USA

CRP GROUP SECURITIES USA





3D INVISIBLE HINGES

100% Made in Italy



CE

UL® 2-HOUR FIRE RATED

fireproof EN 1634-1 EI-120

EI-30

3D INVISIBLE HINGES

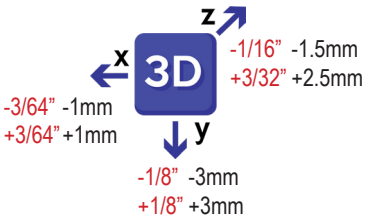
MAIN FEATURES

- Zinc Alloy manufactured for Oxidation Resistance
- Durable Galvanized Steel Covers to conceal the screws
- Used for Wood and Hollow Metal Doors
- **Easy 3D Adjusting System**
- Easy Installation and Maintenance Free
- Complete Reversibility (same slot on the door and the frame)
- Total Recessed Hinge Body (door and frame gap is very small)
- **UL Listed for 2-Hour Fire Rated Doors**
- **European Standard EN1634-1 for 120-Minute Fire Doors**
- **CE Certified for 200,000 Opening / Closing Cycles**
- **100% Made in Italy**
- Elegant Minimalistic Design that is available in **US1, US4, US10B, US14, US15, US26, US26D and US28** finishes with no visible screws

2-HOUR FIRE RATED

EN 1634-1 EI-120



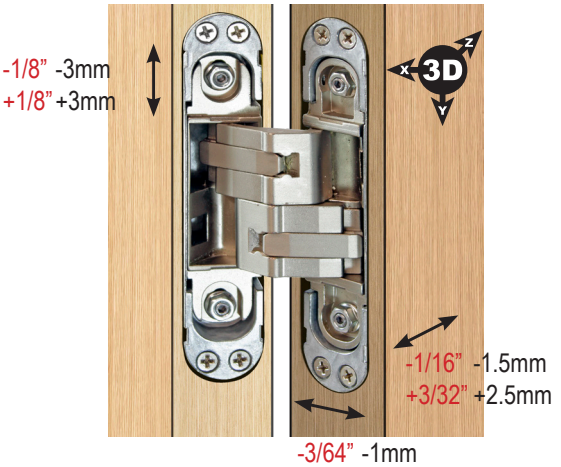


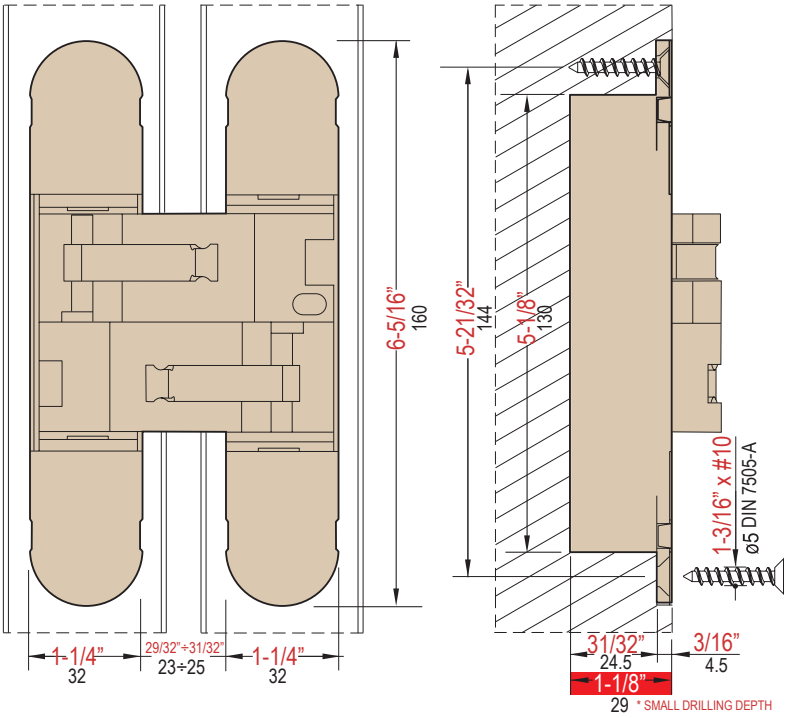
CR3D62

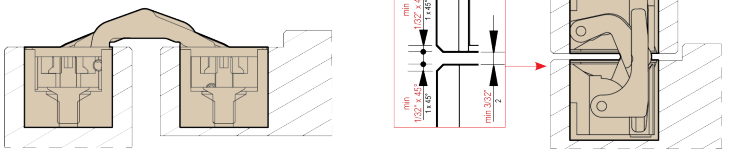
Dimensions: 6 5/16" x 1 1/4" (160 x 32 mm)

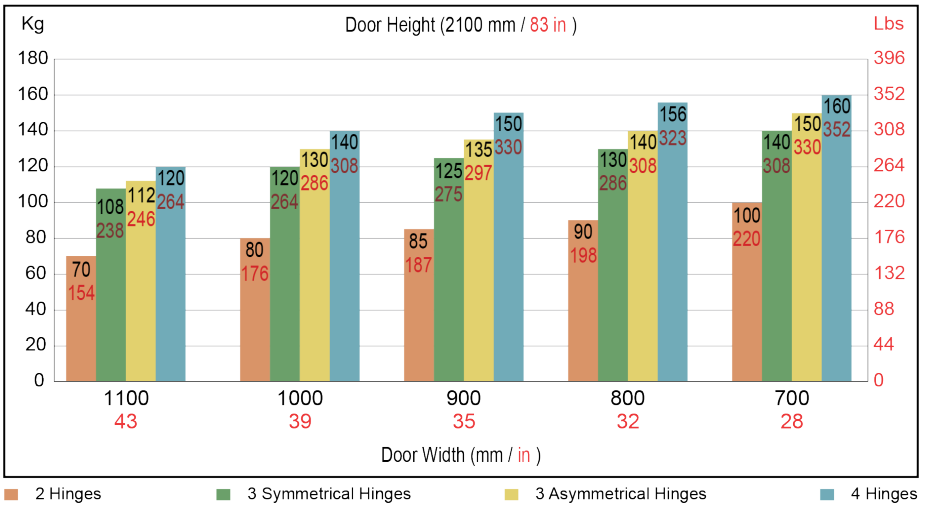
TECHNICAL SPECIFICATIONS:

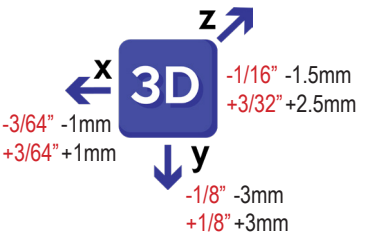
180° Fluid Opening
1 ½" (38mm) minimum door thickness
Overall Length: 6 5/16" (160mm)
Width (frame part): 1 ¼" (32mm)
Width (door part): 1 ¼" (32mm)
Depth: 1 ⅛" (29mm)
Load Capacity: 3 or 4 Hinges - 120kg (265lbs) 2 Hinges - 80kg (177lbs)
Fire Proof Min. : EI-120'



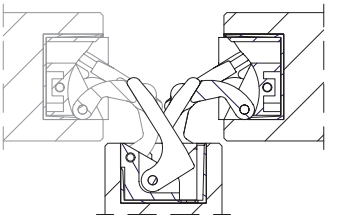


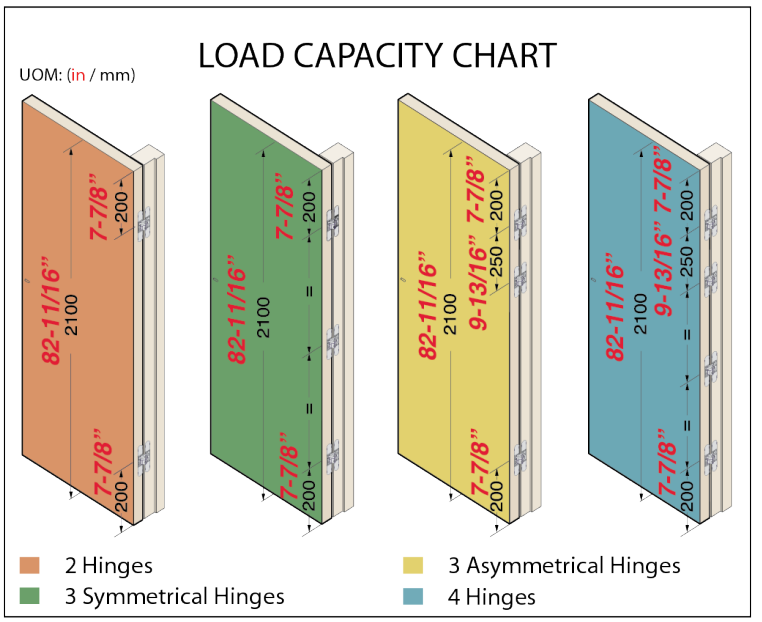


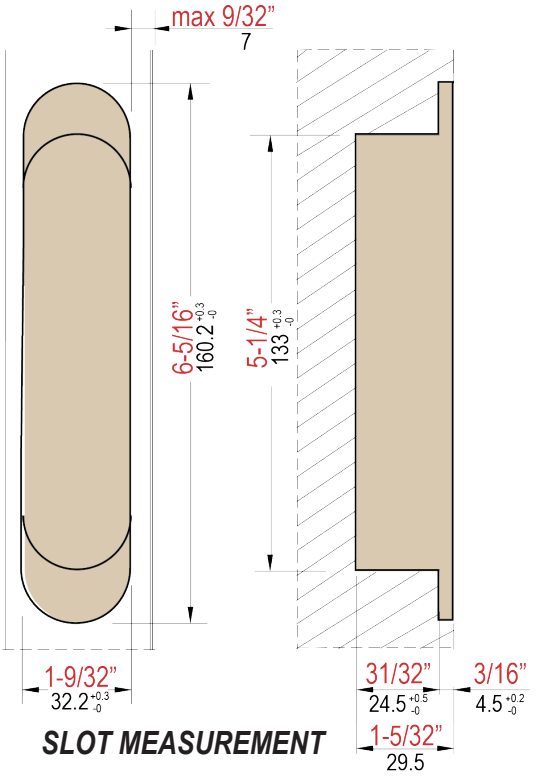




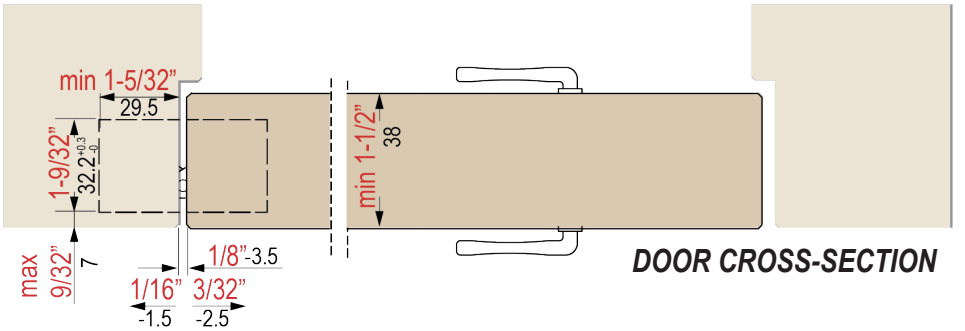
Reversible for doors from:
1 ½" (38mm) to 1 13/16" (46mm)







SLOT MEASUREMENT



DOOR CROSS-SECTION

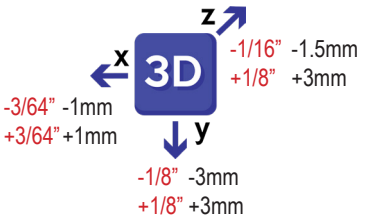
3D INVISIBLE HINGES

MAIN FEATURES

- » Zinc Alloy manufactured for Oxidation Resistance
- » Durable Galvanized Steel Covers to conceal the screws
- » Used for Wood and Hollow Metal Doors
- » **Easy 3D Adjusting System**
- » Easy Installation and Maintenance Free
- » Complete Reversibility (same slot on the door and the frame)
- » Total Recessed Hinge Body (door and frame gap is very small)
- » **CE Certified for 200,000 Opening / Closing Cycles**
- » **100% Made in Italy**
- » Elegant Minimalistic Design that is available in **US1, US4, US10B, US14, US15, US26, US26D and US28** finishes with no visible screws

EI-30



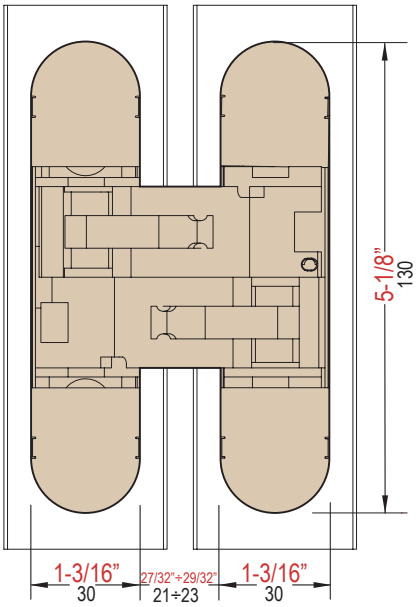


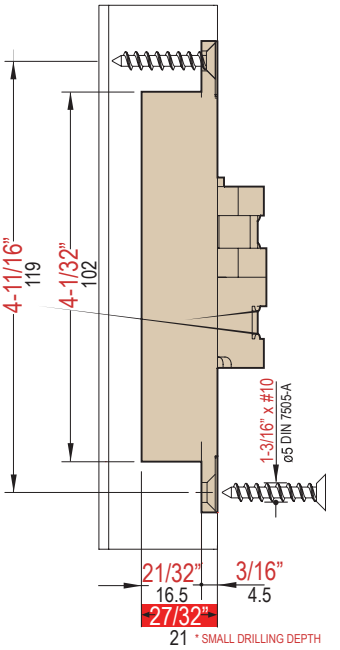
CR3D51

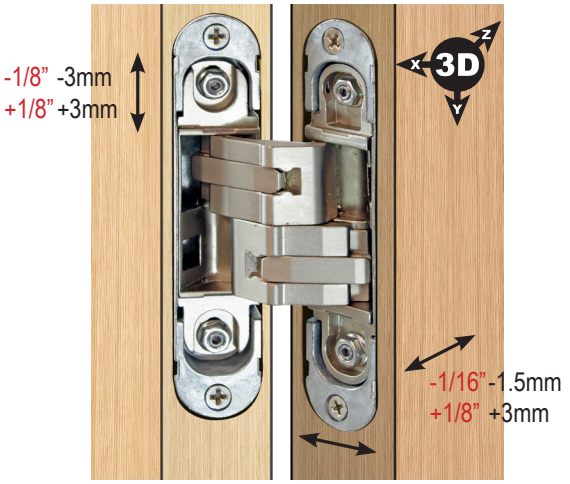
Dimensions: 5 ⅛" x 1 3/16" (130 x 30 mm)

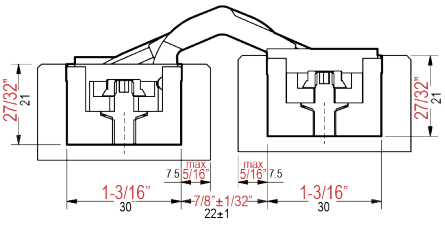
TECHNICAL SPECIFICATIONS:

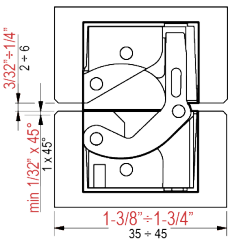
180° Fluid Opening
1 ⅜" (35mm) minimum door thickness
Overall Length: 5 ⅛" (130mm)
Width (frame part): 1 3/16" (30mm)
Width (door part): 1 3/16" (30mm)
Depth: 13/16" (21mm)
Load Capacity: 3 or 4 Hinges - 70kg (154lbs) 2 Hinges - 50kg (110lbs)
Fire Proof Min. : EI-30'

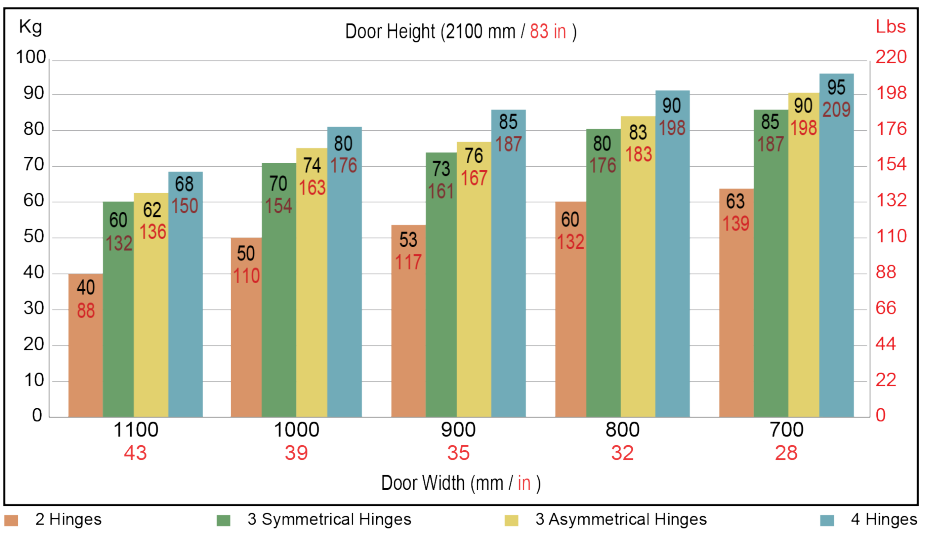


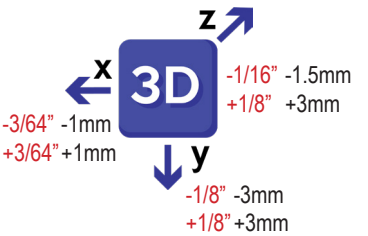




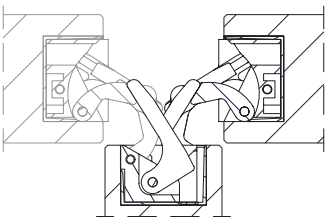


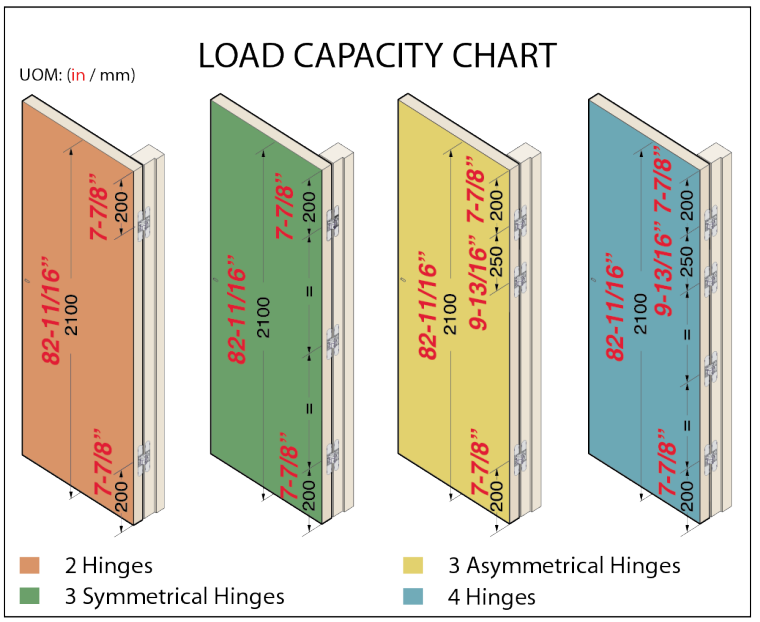


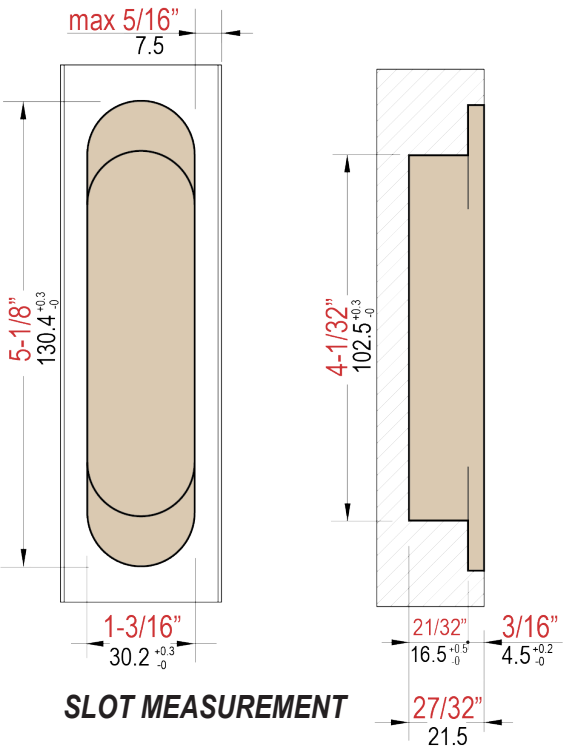




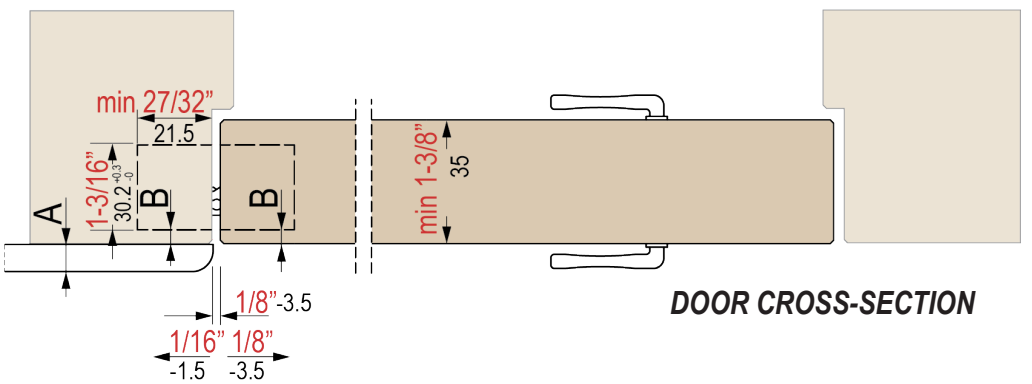
Reversible for doors from:
1 ⅜" (35mm) to 1 ¾" (45mm)







SLOT MEASUREMENT



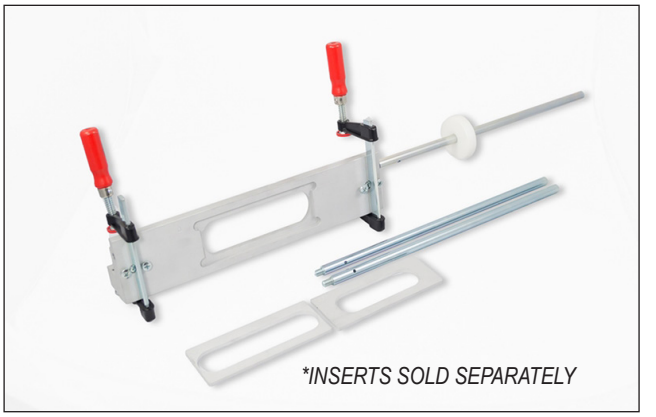
DOOR CROSS-SECTION

A	B
0.61" (15.5mm)	0.10" (2.5mm)
0.57" (14.5mm)	0.12" (3mm)
0.53" (13.5mm)	0.14" (3.5mm)
0.47" (12mm)	0.16" (4mm)
0.39" (10mm)	0.18" (4.5mm)
0.31" (8mm)	0.20" (5mm)

3D HINGE ACCESSORIES

3D-DT (DRILLING TEMPLATE)

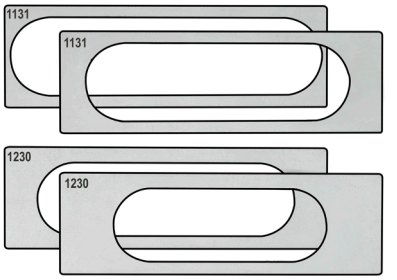
- The 3D-DT drilling template consists of a frame and two inserts, enables implementation of two slots for the invisible hinges, and is made of 3/16"(5mm) thick aluminum plates.
- The strength of the material guarantees precise execution of the slots with a manual pantograph (5/8" diameter cutter and 1 1/16" external ring provided for all manual pantographs).
- For each hinge model, **two types of insertions** (easily replaceable) are used: 1. To execute the butt slots
  2. For the internal depth slot
- It also comes with extension arms and nylon ring to establish the desired distance between slots on the door - both left and right - and on the frame.



*INSERTS SOLD SEPARATELY

Blocking Clamps
Very important for the correct use and assembly of the insert. The reference is printed on the template and the code is printed on the same side of the inserts.

1131 - for CRD62 hinge models
1230 - for CR3D51 hinge models



INSERTS FOR DRILLING TEMPLATE

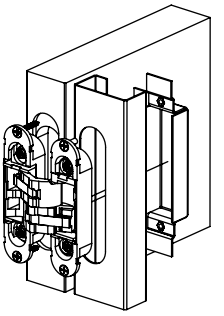
- **3D-51TI** - CR3D51 Inserts
- **3D-62TI** - CR3D62 Inserts

NOTE: Must order inserts when ordering 3D-DT (drilling template)

3D-MTR (Metal Door Receiver)

- Support for Steel Doors
- Galvanized Finish
- Installation with Welding
- Suitable for right and left hand applications

- **3D51-MTR** - CR3D51 Metal Door Receiver
- **3D62-MTR** - CR3D62 Metal Door Receiver
- **3D-MSCREWS** - 10-32 x ¾", #9 Head Machine Screws



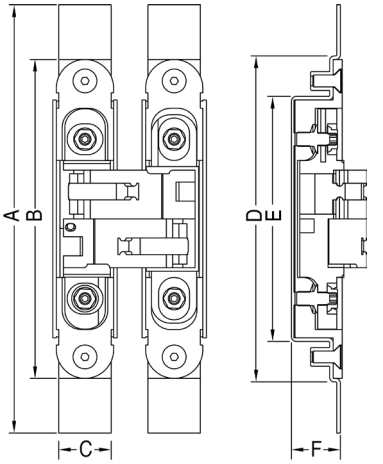
NOTE: Must order machine screws when ordering Metal Door Receiver



3D-MSCREWS



3D62-MTR 3D51-MTR



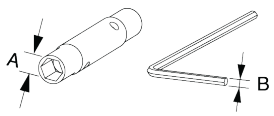
ITEM NO.	A	B	C	D	E	F
3D51-MTR	7 3/32" 180mm	5 1/8" 130mm	1 1/8" 29mm	5 1/4" 133mm	4 1/8" 105mm	27/32" 21mm
3D62-MTR	7 13/16" 198mm	6 11/32" 161mm	1 3/16" 30mm	6 15/32" 164mm	5 1/4" 133mm	1 7/32" 31mm

3D-ATK (ADJUSTMENT TOOL KIT)

- Used for vertical, horizontal, and depth hinge adjustments
- **3D51-ATK** - CR3D51 Adjustment Tool Kit
- **3D62-ATK** - CR3D62 Adjustment Tool Kit

ITEM NO.	A	B
3D51-ATK	5/16" (8mm)	3/32" (2.5mm)
3D62-ATK	3/8" (10mm)	1/8" (3mm)





3D HINGE COVERS

- **3D51COV** - Extra Covers for CR3D51
- **3D62COV** - Extra Covers for CR3D62



3D-SCREWS

- Extra mounting screws for CR3D51 and CR3D62 hinge models
- Size: 1 3/16" x #10
- 12 pcs per bag



TECHNICAL INFORMATION for CR3D62 and CR3D51

The following parameters must be considered during the choice of the hinges, in order to prevent damage:

- Place of use and frequency of opening
- Door dimensions
- Weight of the door leaf
- Placement and installation of the hinges
- Door closer
- Coating or baseboard
- Automatic or semi-automatic opening systems

In applications like public buildings, where, due to the high opening frequencies and volume of traffic are difficult to predict, it is recommended that additional hinge be used even if the weight of the door does not require it.

All CRP hinges follow the standard regulations and passes all the necessary tests of stress, corrosion resistance, fire resistance, flow and durability.
CRP tests its hinges on doors to 7'0" x 33" (2100 x 850 mm) or 7'0" x 39" (2100 x 1000 mm).

Even though the 3D hinges are maintenance-free, for an ideal performance, it is advisable to lubricate the hinge once every two years, or more, depending on the frequency of opening.

FOURTH HINGE

In some cases, the use of a fourth hinge may be decisive for the capacity, placing it in support of the upper hinge, on which act the main traction forces. In case of big widths (>35" / >900 mm) or heights (>7'0" / >2100 mm) when different forces are produced by leverage effect and center of gravity moves, the fourth hinge must be installed in the upper part of the door, because only in this position can it positively affect the weight capacity. CRP therefore advises to install 9 $^{27}/_{32}$" (250 mm) (away from the hinge at the top. In case of door height > 106 $^{5}/_{16}$" (2700mm) please contact technical department.

When using the door closer, CRP suggest mounting a fourth hinge in the upper part of the door, as these mechanisms modify the opening forces,
increase the load and may alter the capacity of the hinges. In particular:

- For closers without opening force CRP suggest considering 20% more of the real door weight.
- For closers with opening force the effect is much greater; it is estimated that the leaf effective mass is 75% bigger of the actual one.

NOTES

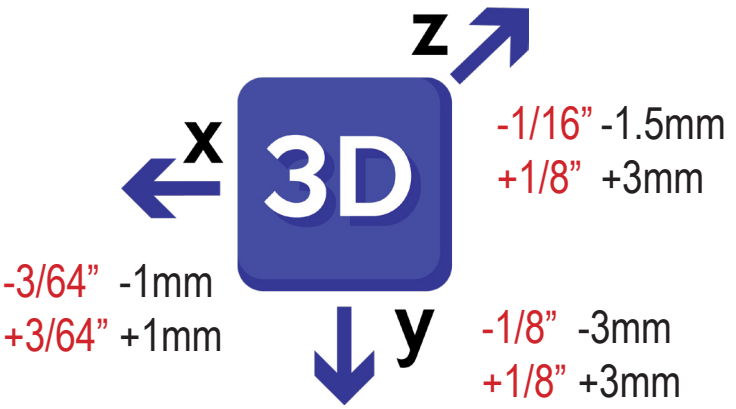
The information herewith reported are indicative guidelines. In practice, the variables that affect the correct functioning of the hinge are several:
according to the nature of the door, transit and employment, it can certainly be reasonable to analyze every single application. The customer must be sure hinges' proportions are enough to satisfy even external factors beyond what is indicated by tests. If necessary, please contact our technical department.

ADJUSTMENT IN 3 DIMENSIONS

Every adjustment requires adequate attention. The adjustment range indicated must be absolutely followed. Excessive force during adjustments can lead to a possible malfunction that could cause system failure.

ZERO POSITION

All CRP 3D hinges are delivered with all the adjustments centered.
After installation and after each adjustment all components must be tightened firmly.



ADJUSTMENT ON THE THREE INDEPENDENT AXES

Horizontal from - 1/16" to + 1/8" (see individual specifications)
Vertical from - 1/8" to + 1/8" (see individual specifications)
Depth +/- 3/64"

HORIZONTAL ADJUSTMENT

Slightly loosen the locking nuts.
With the aid of the Allen key, move the internal cage to find the preferred position.
Tighten all lock nuts.

VERTICAL ADJUSTMENT

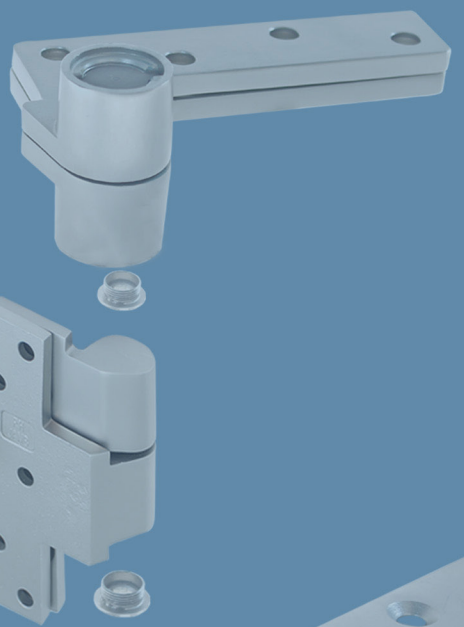
Slightly loosen the locking nuts.
By acting on the door leaf, raise it to the required level.
Tighten all lock nuts.

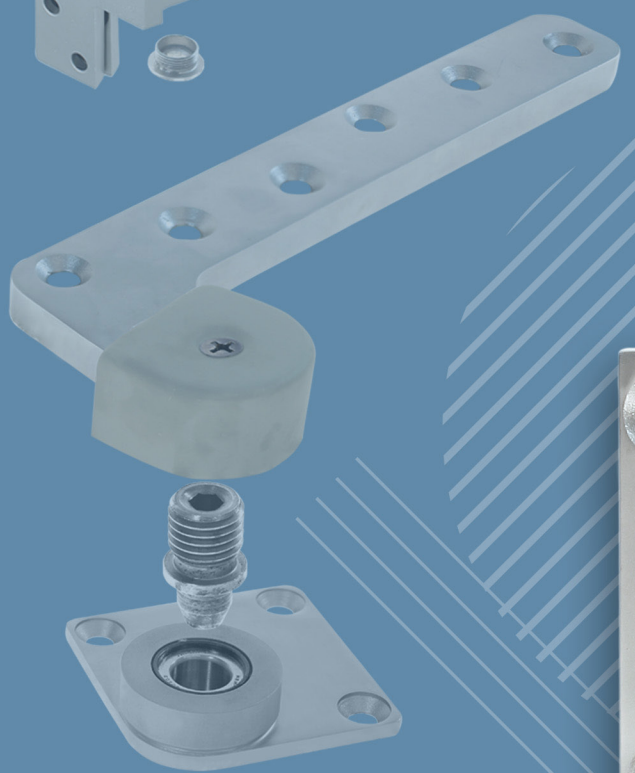
DEPTH ADJUSTMENT

Slightly loosen the locking nuts.
Act with hexagonal Allen key to make the adjustment.
Tighten all lock nuts.
All adjustments are carried out with 5/16" hex wrench and Allen key 3/32" (for CR3D62 hinge, to be made with a hexagonal 3/8" and 1/8" Allen key).

CAL-ROYAL
PRODUCTS, INC.
USA

PIVOT HINGES







CRP SECURITIES
USA

PIVOT HINGE

Pivot sets are designed to work with the laws of physics to provide long-lasting performance and reliability. Offset pivots provide better weight distribution and can accommodate taller doors

The weight of the door is supported at the bottom by the floor

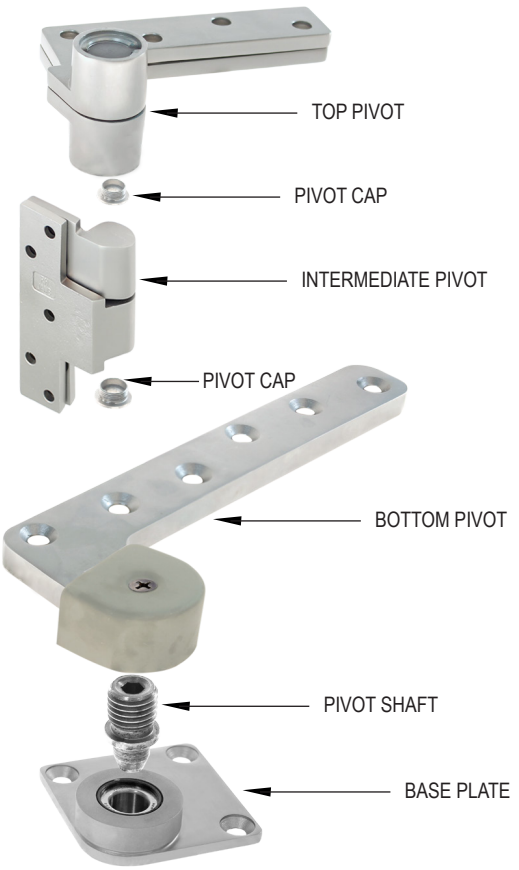
- Uses principles of gravity to its advantage
- Door swings with less resistance
- Heavier doors can be accommodated

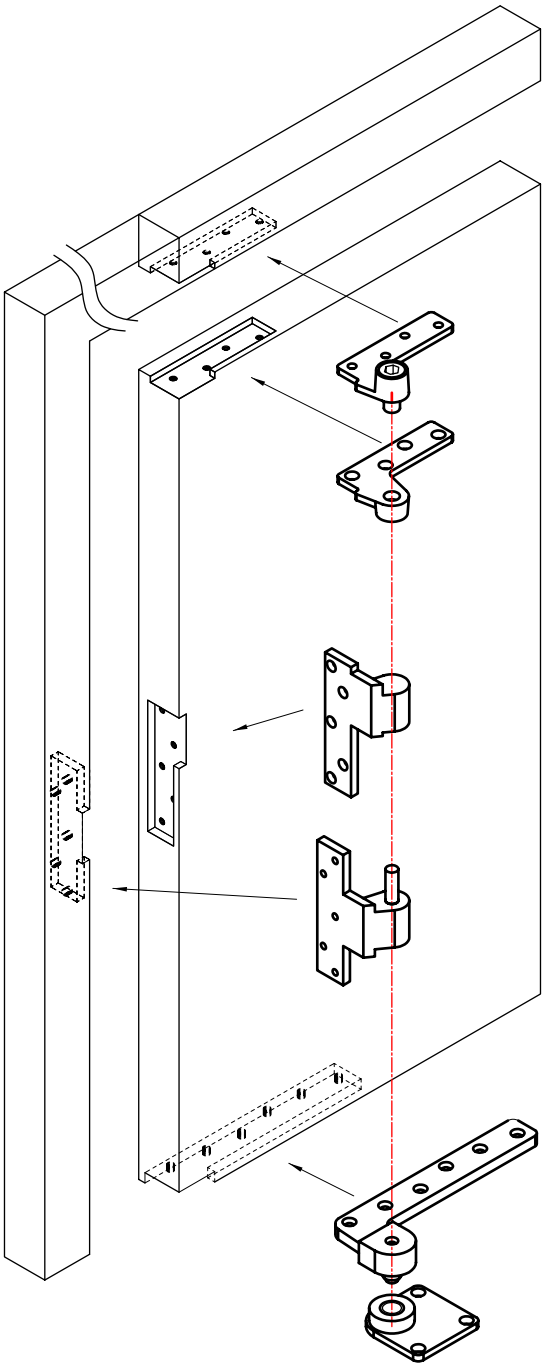
Reduced stress on frame

- Fasteners are in shear, not tension
- Eliminates door sag
- Vertically adjustable

Heavy duty hardened steel spindles

- Thrust bearing supports vertical load
- Needle bearings and bushings for lateral force
- Extra heavy-duty models also have an additional surface applied thrust bearing to handle heavier or high-traffic doors





INSTALLATION DIAGRAM

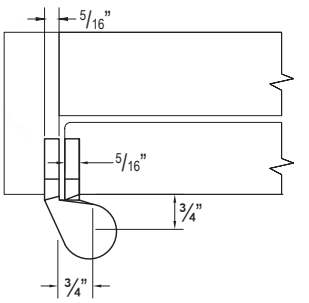
INTERMEDIATE PIVOT

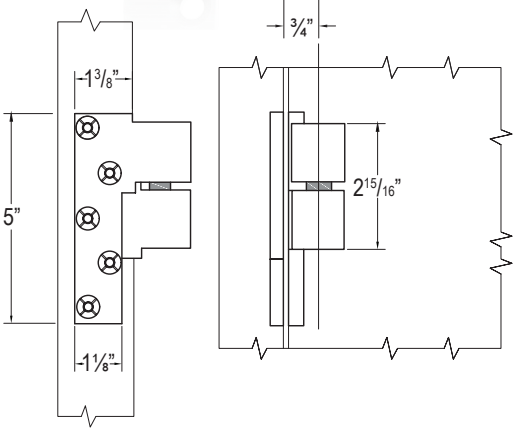
MAIN FEATURES

- Heavy Duty Full Mortise
- Handed
- Maintains door alignment
- Aids in installing floor closer and bottom pivots
- Stainless Steel material with high corrosion resistance
- Door thickness minimum 1 ¾”
- Maximum door load: 600 pounds
- Vertical adjustment $^{3}/_{16}$” include positive locking



PV010





ELECTRIFICATION

- For medium and heavy wood and metal doors in high traffic areas
- **4 wires, 26 gauge**
- Can be used on exterior and interior doors
- Can be used with top and bottom pivots
- Handed
- Not load bearing
- Maintains door alignment and aids in installing bottom pivots
- Doors 60” to 90” in height should use one intermediate pivot
- Each additional 30” warrants another intermediate pivot
- Vertical adjustment up to $^{3}/_{16}$”
- Fasteners: 8 pcs wood screws and 8 pcs. machine screws

ITEM #	SIZE	OFFSET	THICKNESS
ELEPV010-RH	5” x 4 ¼”	¾”	$^{5}/_{16}$”
ELEPV010-LH	5” x 4 ¼”	¾”	$^{5}/_{16}$”



ELEPV010

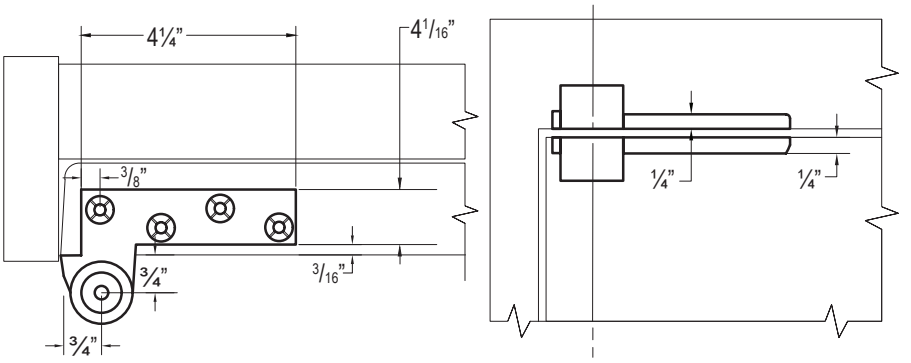
TOP AND BOTTOM OFFSET PIVOT SET
PV001

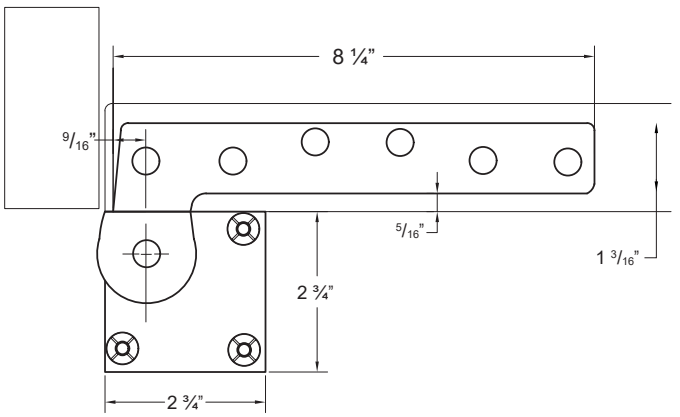
MAIN FEATURES

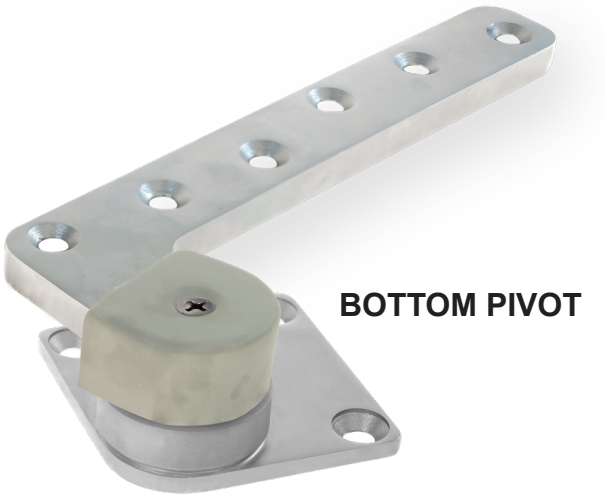
- Full Mortise
- Non-Handed
- ¾" Offset pivot
- Standard top pivot for most offset pivot sets and floor closers
- Use with 1 ¾" door minimum thickness with ⅛" bevel in 2"
- Maximum door load: 600 pounds
- Vertical adjustment range 3/16"
- Stainless Steel material with high corrosion resistance
- ***Top and bottom pivot is sold as set***



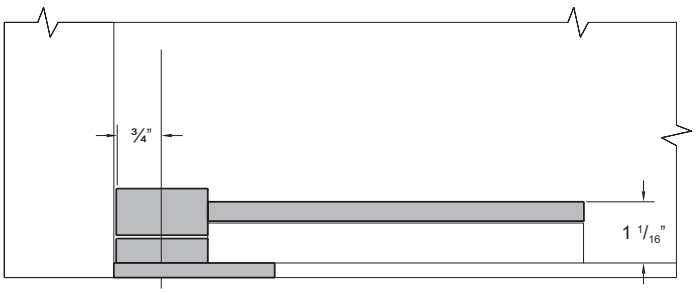
TOP PIVOT

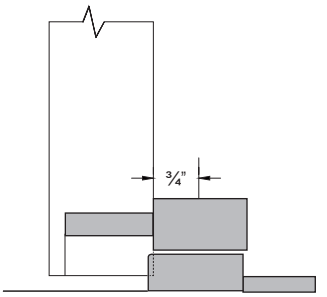






BOTTOM PIVOT





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EXIT DEVICES

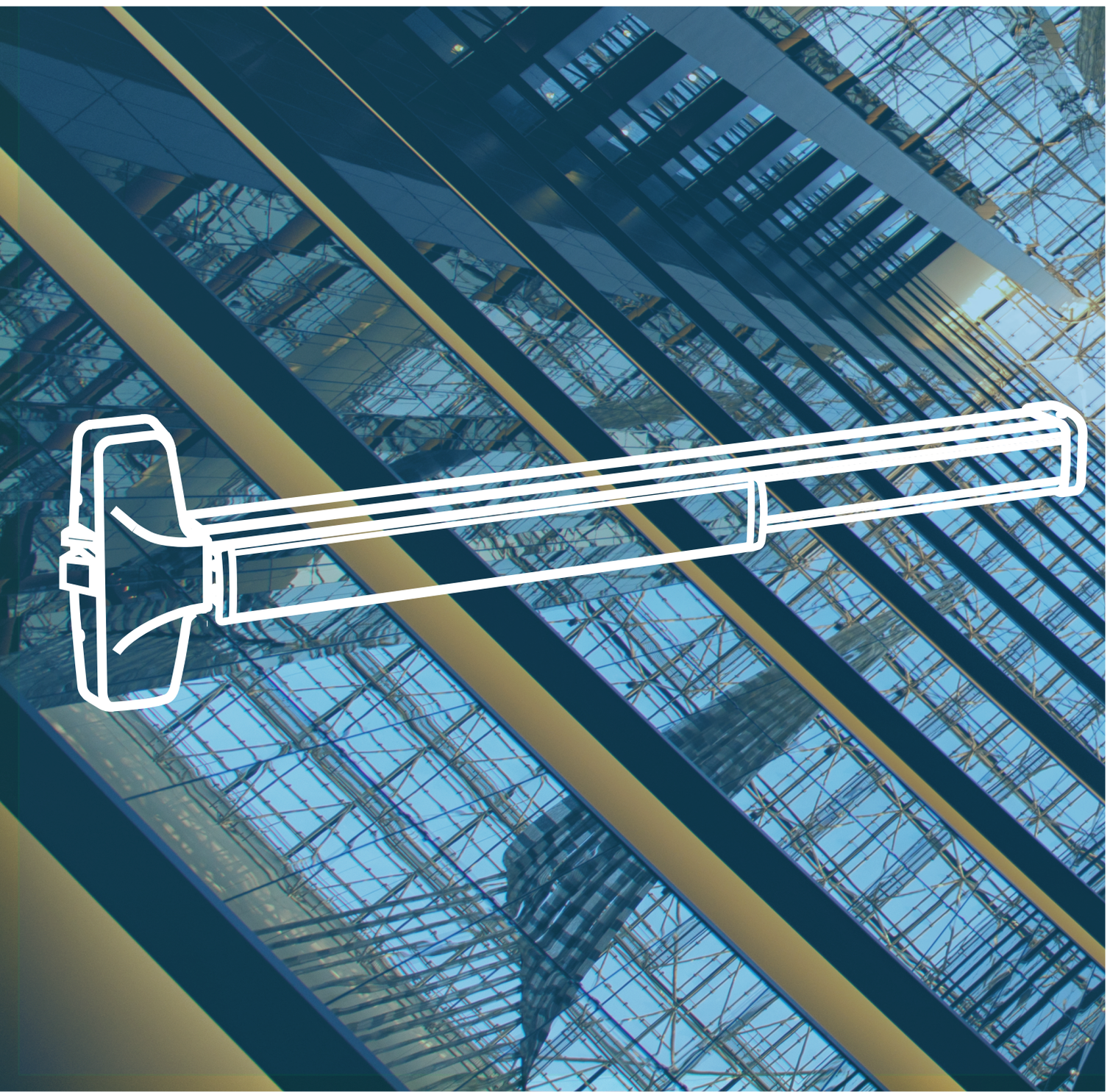


TABLE OF CONTENTS

I. 7700 SERIES

RIM AND SURFACE VERTICAL ROD

Features & Specifications 1
A7700 & AF7700 ADA Series 2
A7760V & AF7760V ADA Series 3
ALBR7760V & ALBRF7760V ADA Series 4
Alarm Exit Hardware 7
Trim Selection 8-11

CONCEALED VERTICAL ROD

MCVR7700 & FMCVR7700 Series 15
WCVR7700 & FWCVR7700 Series 16
Trim Selection 17

MORTISE RIM

MR7700 & FMR7700 Series 18
Trim Selection 19

NARROW STILE RIM & CONCEALED VERTICAL ROD

GLS7700 & FGLS7700 Series 20
GLSCVR7700 & FGLSCVR7700 Series 21
Trim Selection 22-23

DELAYED EGRESS

DE7700 Series Delayed Egress 5
7700 Series Delayed Egress Models 6

ELECTRIFICATION

Electrified Lever Trims 12
(ELR) Electric Latch Retraction 13
Signal Switch RX and LX 13
Power Supplies for Electrified Exit Devices 97-98
HEAVY DUTY DIGITAL EXIT TRIMS 14
STRIKES & ACCESSORIES 24
FIRE AND NON-FIRE SELECTOR CHART 25-26
COMPARISON CHART 27

III. 9800 SERIES

RIM AND SURFACE VERTICAL ROD

Features & Specifications 28
A9800 & AF9800 ADA Series 29
A9860V & AF9860V ADA Series 30
ALBR9860V & ALBRF9860V ADA Series 31
Alarm Exit Hardware 32
Trim Selection 33-36

CONCEALED VERTICAL ROD

MCVR9800 & FMCVR9800 Series 40
WCVR9800 & FWCVR9800 Series 41
Trim Selection 42

MORTISE RIM

MR9800 & FMR9800 Series 43
Trim Selection 44

NARROW STILE RIM & CONCEALED VERTICAL ROD

GLS9800 & FGLS9800 Series 45
GLSCVR9800 & FGLSCVR9800 Series 46
Trim Selection 47-48

ELECTRIFICATION

Electrified Lever Trims 37
(ELR) Electric Latch Retraction 38

II. 9800 SERIES

ELECTRIFICATION

Signal Switch RX and LX 38
Power Supplies for Electrified Exit Devices 97-98
HEAVY DUTY DIGITAL EXIT TRIMS 39
STRIKES & ACCESSORIES 49-50
FIRE AND NON-FIRE SELECTOR CHART 51-52
COMPARISON CHART 53

III. 6600 SERIES

RIM AND SURFACE VERTICAL ROD

Features & Specifications 54
6600 & F6600 Series 55
6660V & F6660V Series 56
LBR6660V & LBRF6660V Series 57
Alarm Exit Hardware 58
Trim Selection 59-64
HEAVY DUTY DIGITAL EXIT TRIMS 65
STRIKES & ACCESSORIES 66
FIRE AND NON-FIRE SELECTOR CHART 67-68
COMPARISON CHART 69

IV. 2200 SERIES

RIM AND SURFACE VERTICAL ROD

Features & Specifications 70
A2200 & AF2200 ADA Series 71
A2260V & AF2260V ADA Series 72
ALBR2260V & ALBRF2260V ADA Series 73
Alarm Exit Hardware 74
Trim Selection 75-77

ELECTRIFICATION

Electrified Lever Trim 78
(ELR) Electric Latch Retraction 79
Signal Switch RX and LX 79
Power Supplies for Electrified Exit Devices 97-98
HEAVY DUTY MECHANICAL LOCK 78
KABA® - CAL-ROYAL COMBINATION 79
STRIKES & ACCESSORIES 80-81
FIRE AND NON-FIRE SELECTOR CHART 82-83
COMPARISON CHART 84

V. 4400 SERIES

RIM TYPE PANIC EXIT DEVICE 95
Trim Selection 96

VI. 5000 SERIES

RIM AND SURFACE VERTICAL RODS

Features & Specifications 85, 87
5000 & F5000 Series 86
T5000 & TF5000 Series 88
T5000V & TF5000V Series 89
Trim Selection 90-91
STRIKES & ACCESSORIES 92
FIRE AND NON-FIRE SELECTOR CHART 93-94

VII. MULLIONS

REMOVABLE AND LOCKABLE MULLIONS 99

CAL-ROYAL
PRODUCTS, INC. U.S.A.

CRP SECURITIES USA

A7700 & AF7700 Rim Type Panic and Fire Exit Devices (ADA)
A7760V & AF7760V Vertical Rod Panic and Fire Exit Devices (ADA)
ANSI A156.3, Grade 1

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | ADA COMPLIANT | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997



HURRICANE APPROVED HARDWARE FLORIDA BUILDING CODE FL13922-R7 ASTM E1886/E1996 ASTM E330 TAS 201, 202, 203 UL10B & UL10C

HURRICANE APPROVED HARDWARE TEXAS EVALUATION ID DR-472 ASTM E1886/E1996 ASTM E330 TAS 201, 202, 203

(FOR FIRE RATED RIM & VERTICAL ROD EXIT DEVICES ONLY)

CONFIGURATION	MAX FRAME DIMENSIONS	LOCK TYPE	DESIGN PRESSURE (PSF) OUTSWING	
			POSITVE	NEGATIVE
SINGLE	40" x 88"	F7700V SERIES F7700 SERIES	+70.0	-70.0
	52" x 98"	F7700V SERIES	+50.0	-50.0
DOUBLE	76" x 88"		+70.0	-70.0
	100" x 98"		+50.0	-50.0

Features & Construction

- **Retrofits Von Duprin 99 & 98 Series using 7700 Escutcheon Trim**
- Americans with Disability Act (ADA) compliant. 5lbs opening force on ADA product only
- For use in institutions, schools, universities, commercial buildings where heavy duty reliable operation is a requirement
- ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs
- Rail assemblies are heavy duty extruded aluminum body with Stainless Steel push pad and end caps are made of brass, bronze or stainless steel. Rail travels in direction of the door swing
- Trims are thru-bolted for additional security
- Conforms & Meets ADA Regulations
- UL Listed for Panic and ULC10C, UBC 7-2-1997 codes
- UL Listed for Fire Exit Hardware. 3 hours
- (A) label rating on pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- Uncompromising security and safety in single and double fire exit doors
- Chassis mounted unit construction. Rim and vertical rod devices are non-handed and easily reversible
- Available in many different functions. Lever and escutcheon trims are grade 1 construction with clutch on rose trims. Escutcheon trims are rigid and covers 161 cut out.

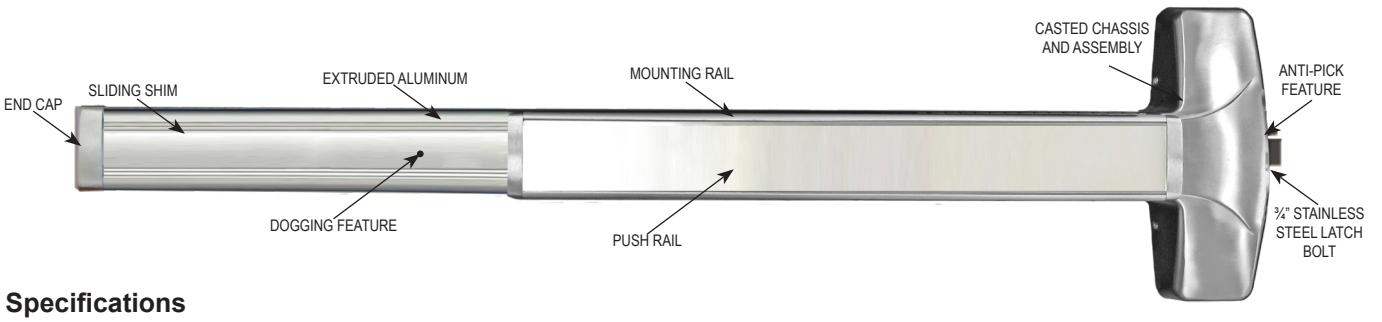
Suggested Architect's Specifications

- All exit devices shall be of touch bar design with smooth operation and be operative over ⅔ of the door's clear opening width
- All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes
- All springs shall be of Stainless Steel throughout
- All exit devices shall be of chassis mounted unit construction.
- All exit devices shall be ANSI A156.3, Grade 1

A7700 & AF7700 ADA Series

GRADE 1, Rim Type Exit Device

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | ADA COMPLIANT | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997



Specifications

For Doors..... 1 ¾" thick standard optional 2 ¼" thick. 4 ½" minimum stile width for single or double door application using standard 938 strike and pull lever, thumbpiece and escutcheon trims. 2 ¾" backset

Chassis..... Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)

Cover..... Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out

Mounting..... Furnished with wood and machine screws. Available thru-bolts on request. **Thru-bolts are included and standard packaging on fire rated devices**

HURRICANE APPROVED HARDWARE FLORIDA BUILDING CODE FL13922-R7 ASTM E1886/E1996 ASTM E330 TAS 201, 202, 203 UL10B & UL10C

HURRICANE APPROVED HARDWARE TEXAS EVALUATION ID DR-472 ASTM E1886/E1996 ASTM E330 TAS 201, 202, 203

(FOR FIRE RATED RIM & VERTICAL ROD EXIT DEVICES ONLY)

End Cap..... Brass, Bronze or Stainless Steel construction

Alarm..... Available. Prefix "**NALRM"** before MODEL #

Hand..... Non-handed, center hub for 2 ¾" backset

Latch Bolt..... Stainless Steel ¾" throw with anti-pick feature

Spring..... Stainless Steel throughout

ANSI Standard..... A156.3, Grade 1

Rail Assembly..... Heavy gauge extruded aluminum body with Stainless Steel push pad

Strike..... 938 packed standard (See strike page)

Dogging Feature..... Allen-type key furnished standard on non-fire labeled devices

Mullion..... Available

UL and ULC Listed..... A7700 Series for panic. AF7700 Series for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes

Finish..... Architectural plated finishes

Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**

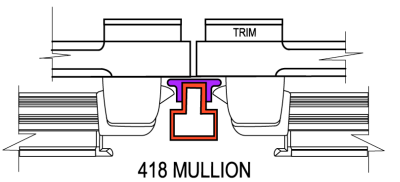
Americans with Disability Act (ADA) compliant 5 lbs opening force on ADA Series only

Refer to the Price List for Stock Sizes and Finishes

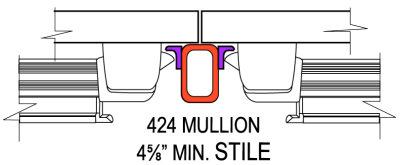
4 ½" Minimum Stile Requirements

DOUBLE DOOR

4½" MIN. STILE



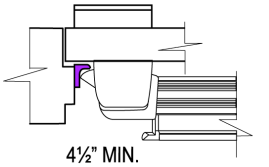
418 MULLION



424 MULLION

4⅝" MIN. STILE

SINGLE DOOR



4½" MIN.

DIMENSIONS			
Touchbar height to finished floor	41" (1041 mm) at center		
Touchbar projection			
Neutral	3 ⅝" (92 mm)		
Depressed	2 ⅛" (73 mm)		
Center case	8 1/16" x 2 ¾" x 2 ½" (205 mm x 70 mm x 63 mm)		
MODEL	**ACTUAL LENGTH**	**MAX CUT DOWN**	**DOOR SIZE**
A7700EO36, AF7700EO36	32"	6"	30" to 36" door width
A7720EO48 , AF7720EO48	44"	10"	38" to 48" door width

A7760V & AF7760V ADA Series

GRADE 1, Vertical Rod Type Exit Device

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | ADA COMPLIANT | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997

Specifications

For Doors..... 1 ¾" thick standard optional 2 ¼" thick. 3 ¾" minimum stile width required for single door application. 3 ½" minimum stile width required for double door application. Lever, thumb piece and escutcheon trims available. 2 ¾" backset

Top & Bottom Chassis..... Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)

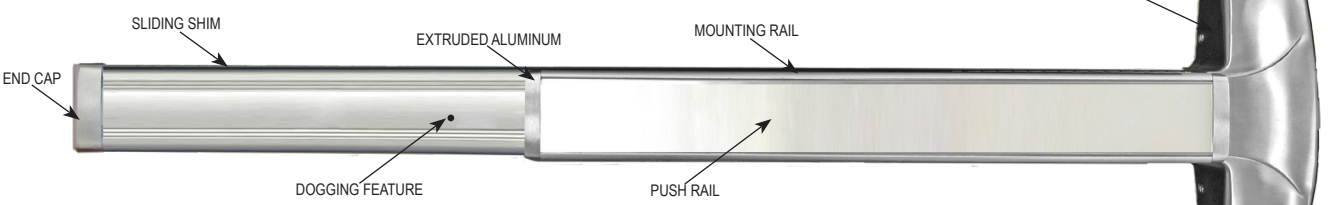
Cover..... Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out.

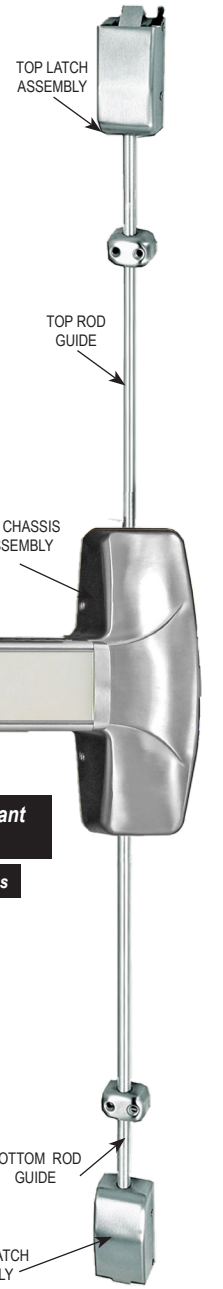
Mounting..... Furnished with wood and machine screws. **Thru-bolts are included and standard packaging on fire rated devices.**

End Cap..... Brass, Bronze or Stainless Steel construction

Alarm..... Available. Prefix "**NALRM"** before MODEL #

Hand..... Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience





Latch Bolt & Spring..... Stainless Steel

Spring..... Stainless Steel throughout

ANSI Standard..... A156.3, Grade 1

Rail Assembly..... Heavy gauge extruded aluminum body with Stainless Steel push pad

Strike..... See strike page

Dogging Feature..... Allen-type key furnished standard on non-fire labeled devices

UL and ULC Listed..... A7760V Series for panic. AF7760V Series for fire exit hardware for all types of **8' x 10' double doors** for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes

Finish..... Architectural plated finishes

Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**

Americans with Disability Act (ADA) compliant 5 lbs opening force on ADA Series only

Refer to the Price List for Stock Sizes and Finishes

HURRICANE APPROVED HARDWARE FLORIDA BUILDING CODE FL13922-R7 ASTM E1886/E1996 ASTM E330 TAS 201, 202, 203 UL10B & UL10C

HURRICANE APPROVED HARDWARE TEXAS EVALUATION ID DR-472 ASTM E1886/E1996 ASTM E330 TAS 201, 202, 203

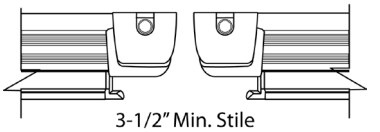
(FOR FIRE RATED RIM & VERTICAL ROD EXIT DEVICES ONLY)

DIMENSIONS

Touch bar height to finished floor	41" (1041 mm) at center
Touch bar projection	
Neutral	3 5/8" (92 mm)
Depressed	2 7/8" (73 mm)
Center case	8 1/16" x 2 3/4" x 2 1/2" (205 mm x 68 mm x 62 mm)
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 52 mm x 42 mm)
Fire grade top latch case	3 15/16" x 2 9/16" x 2 1/16" (100 mm x 68 mm x 53 mm)
Fire grade bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 52 mm x 42 mm)
Top and bottom rod length for 36" x 84" doors	Top rod 37 ½" (955 mm), bottom rod 35 5/8" (905 mm)
Top and bottom rod length for 48" x 96" doors	Top rod 49 5/8" (1260 mm), bottom rod 35 5/8" (905 mm)
Vertical Rods	½" (13 mm) Round tubing

MINIMUM STILE REQUIREMENTS

Double Door with Two Vertical Rod Type Exit Devices

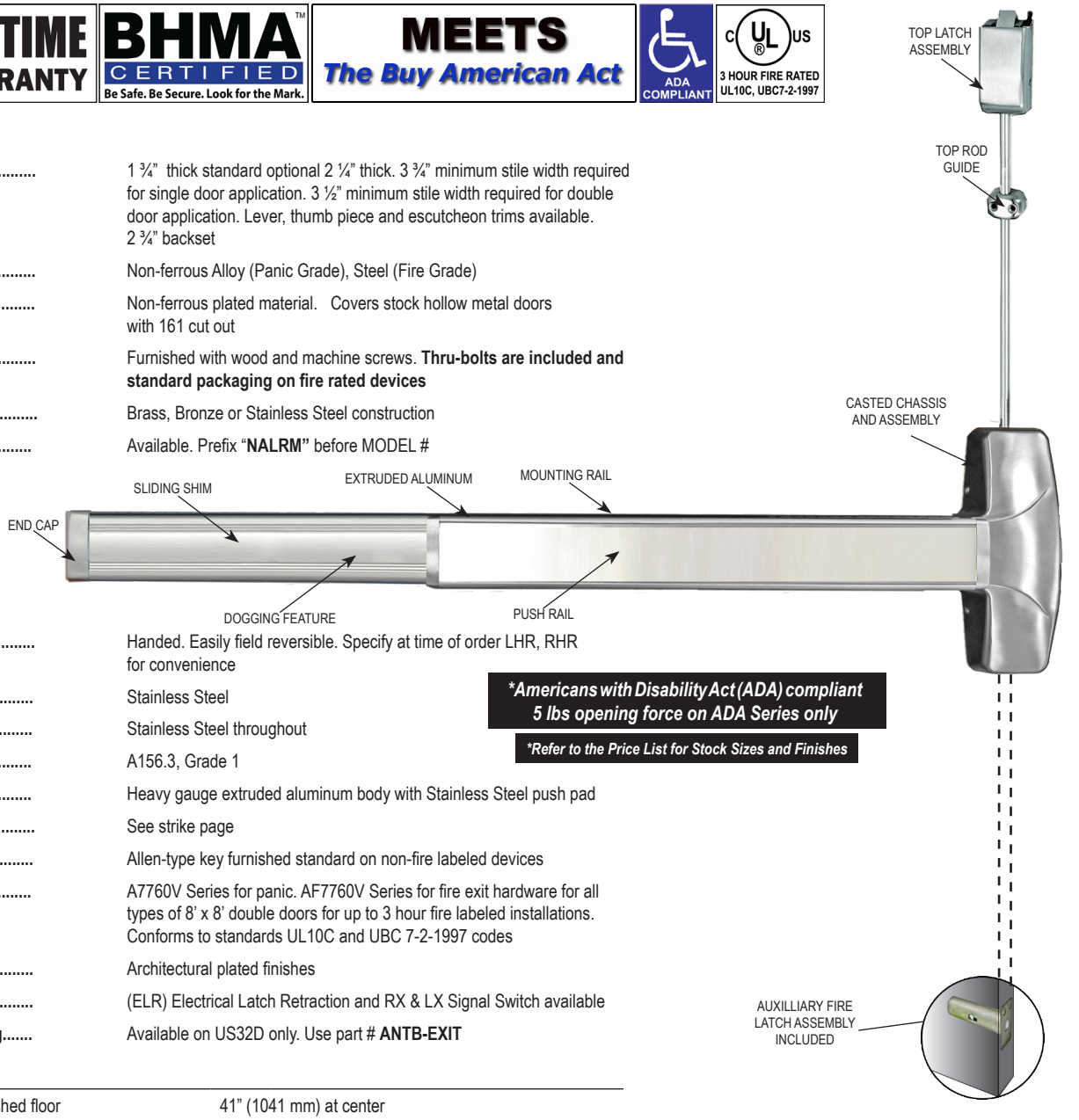


MODEL	ACTUAL SIZE	MAXIMUM CUT DOWN	DOOR SIZE
A7760V3684, AF7760V3684, A7790V3696, AF7790V3696, A7750V36120, AF7750V36120	32"	6"	30" to 36" door width
A7780V4896, AF7780V4896, A7740V48120, AF7740V48120	44"	10"	38" to 48" door width

ALBR7760V & ALBRF7760V ADA Series

GRADE 1, Vertical Rod Exit Device Less Bottom Rod

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | ADA COMPLIANT | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997



Specifications

For Doors..... 1 ¾" thick standard optional 2 ¼" thick. 3 ¾" minimum stile width required for single door application. 3 ½" minimum stile width required for double door application. Lever, thumb piece and escutcheon trims available. 2 ¾" backset

Top Chassis..... Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)

Cover..... Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out

Mounting..... Furnished with wood and machine screws. **Thru-bolts are included and standard packaging on fire rated devices**

End Cap..... Brass, Bronze or Stainless Steel construction

Alarm..... Available. Prefix "**NALRM**" before MODEL #

Hand..... Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience

Latch Bolt & Spring..... Stainless Steel

Spring..... Stainless Steel throughout

ANSI Standard..... A156.3, Grade 1

Rail Assembly..... Heavy gauge extruded aluminum body with Stainless Steel push pad

Strike..... See strike page

Dogging Feature..... Allen-type key furnished standard on non-fire labeled devices

UL and ULC Listed..... A7760V Series for panic. AF7760V Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes

Finish..... Architectural plated finishes

Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**

Americans with Disability Act (ADA) compliant 5 lbs opening force on ADA Series only

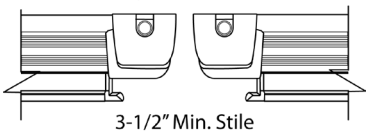
Refer to the Price List for Stock Sizes and Finishes

DIMENSIONS

Touch bar height to finished floor	41" (1041 mm) at center
Touch bar projection	
Neutral	3 5/8" (92 mm)
Depressed	2 7/8" (73 mm)
Center case	8 1/16" x 2 3/4" x 2 1/2" (205 mm x 68 mm x 62 mm)
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 52 mm x 42 mm)
Fire grade top latch case	3 15/16" x 2 9/16" x 2 1/16" (100 mm x 68 mm x 53 mm)
Fire grade bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 52 mm x 42 mm)
Top rod length for 36" x 84" doors	Top rod 37 1/2" (955 mm)
Top rod length for 48" x 96" doors	Top rod 49 5/8" (1260 mm)
Vertical Rods	1/2" (13 mm) Round tubing

MINIMUM STILE REQUIREMENTS

Double Door with Two Vertical Rod Type Exit Devices



MODEL	ACTUAL SIZE	MAXIMUM CUT DOWN	DOOR SIZE
ALBR7760V3684, **ALBR**F7760V3684, **ALBR**7790V3696, **ALBR**F7790V3696, **ALBR**7750V36120	32"	6"	30" to 36" door width
ALBR7780V4896, **ALBR**F7780V4896, **ALBR**7740V48120	44"	10"	38" to 48" door width

DE7700 Series

GRADE 1 Delayed Egress All in One Exit Device

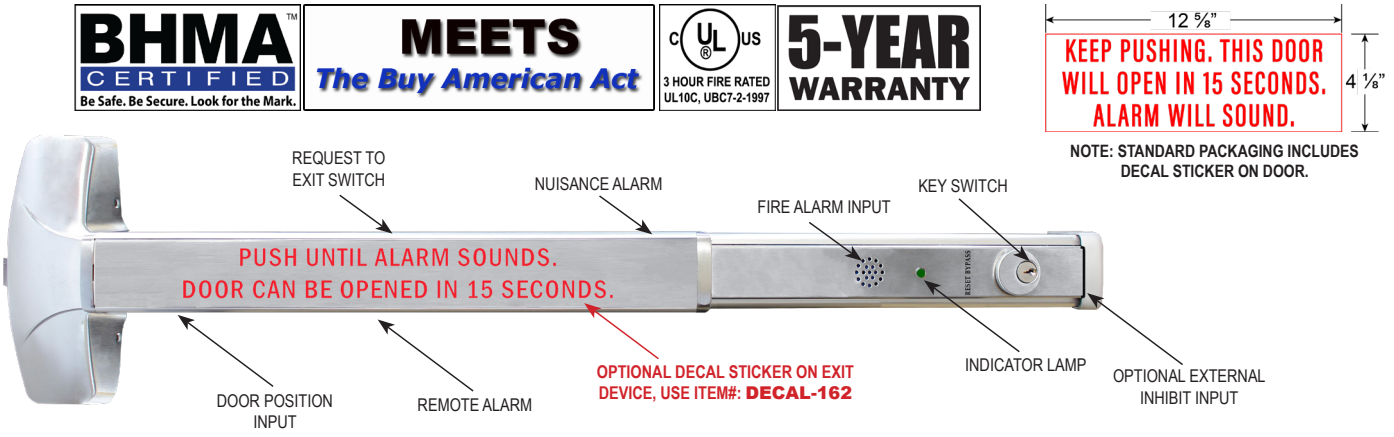
ANSI BHMA A156.24 Delayed Egress Locking System Approved

BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.

MEETS The Buy American Act

c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997

5-YEAR WARRANTY



FEATURES

EGRESS DELAY

- All in One Device
- 15 or 30 second exit delay (Factory set to 15 secs)
- 1 or 2 second nuisance delay
- Alarm and Lock reset
- 1 to 30 second momentary bypass
- Sustained bypass

BULIT-IN ANNUNCIATION

- Armed mode
- Nuisance mode
- Irreversible egress mode
- Release mode

Optional External Inhibit Input

- Remote override
- Remote reset

CODE COMPLIANCE

- IFC International Fire Code
- IBC International Building Code
- NFPA 101 Life Safety Code
- NFPA 1 Uniform Fire Code
- California Building Code
- Field selectable automatic or manual power up after emergency release or power loss

CONTROL INPUTS

- 1 to 30 second request-to-exit and bypass input with anti-tailgate and jumper selectable door prop alarm
- Reset

TRIGGER MODES

- Egress Alarm triggered by Push Bar
- Trigger input from external device field selectable (N/O or N/C)

MONITORING OUTPUTS

- Armed mode
- Nuisance mode
- Release status

MUST ORDER CR602RF or CR631RF POWER SUPPLY TO HONOR WARRANTY AND UL MARKING

APPLICATION

When unauthorized egress is initiated the device delays egress through the door for 15 seconds (or 30 seconds). Meanwhile, the person exiting must wait while personnel or security responds. The door unlocks after 15 seconds have elapsed permitting egress. When powered by a fire control supervised power supply, the lock will release immediately in an emergency.

FOR USE WITH: (FIRE AND NON-FIRE)

- A7700, AF7700 Rim Exit Devices
- A7760V, AF7760V Surface Vertical Rod Exit Device[1]
- MCVR7700, FMCVR7700 Concealed Vertical Rod (metal doors)
- WCVR7700, FWCVR7700 Concealed Vertical Rod (wood doors)
- MR7700, FMR7700 Mortise Lock Rim Exit Device
- GLS7700 Narrow Stile Rim Exit Device (on 36" Only)
- GLSCVR7700, FGLSCVR7700 Narrow Stile Concealed Vertical Rod (on 36" Only)

[1]*Recommends use of rod and latch guards and strike monitor for surface vertical rods*

TECHNICAL SPECIFICATIONS

- 24V DC @ 430mA
- 24V DC @ 250mA Slave

Power Supply CR602RF 1 Amp / CR631RF 1.5 Amp



CR631RF



CR602RF

- Field selectable 12 or 24V DC, regulated and filtered
- Auto resetting output circuit protection
- Isolated 13.5 / 27V DC battery charger
- Low battery disconnect
- Emergency release input
- Field selectable UBC & California compliant manual power up
- Input, output and battery status LED's
- CR631RF - 16" x 14" x 6.5", CR602RF - 12" x 12" x 4" enclosure
- Choice of output and door control modules
- CR631RF - 1.5 Amp, CR602RF - 1.0 Amp
- Batteries not included

7700 Series Delayed Egress Models

GRADE 1 Delayed Egress All in One Exit Device

ANSI / BHMA A156.24 Delayed Egress Locking System Approved

For use in institutions, schools, universities, commercial buildings where heavy duty reliable operation is a requirement. 7700 Series Delayed Egress can also be used for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3 hour fire labeled installations, it conforms to standards UL10C and UBC 7-2-1997 codes.

BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.

MEETS *The Buy American Act*

c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997

5-YEAR WARRANTY

12 5/8"

KEEP PUSHING. THIS DOOR WILL OPEN IN 15 SECONDS. ALARM WILL SOUND.

4 1/8"

NOTE: STANDARD PACKAGING INCLUDES DECAL STICKER ON DOOR.



A7700, AF7700 Rim Panic Exit Devices

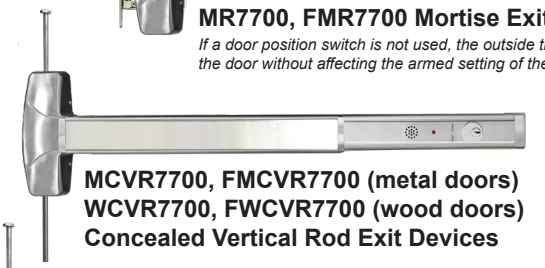
A7760V, AF7760V
Surface Vertical Rod Exit Devices

To effectively use the surface vertical rod exit device, it is recommended that the rod and latch guards and monitor strike be used.



MR7700, FMR7700 Mortise Exit Devices

If a door position switch is not used, the outside trim will operate the door without affecting the armed setting of the device.



MCVR7700, FMCVR7700 (metal doors)
WCVR7700, FWCVR7700 (wood doors)
Concealed Vertical Rod Exit Devices



GLS7700 Narrow Stile Rim Exit Devices (36" ONLY)



GLSCVR7700, FGLSCVR7700 (36" ONLY)
Narrow Stile Concealed Vertical Rod Exit Devices

16"

PUSH UNTIL ALARM SOUNDS
DOOR CAN BE OPENED IN 15 SECONDS

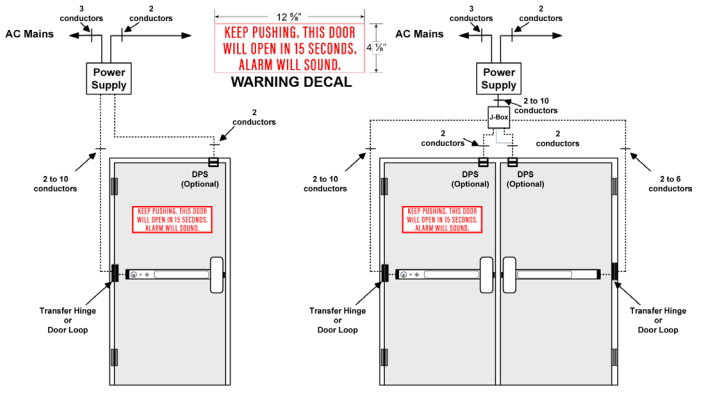
2"

*Optional Decal sticker for the Exit Device, specify item# "**DECAL-162**" when ordering.

DELAYED EGRESS OPTION IS AVAILABLE ON ALL 7700 SERIES EXIT DEVICES
(GLS7700 & GLSCVR7700 Narrow Stile Exit Devices on 36" Only. Must use DEKIT48.)

♦♦ NOTE: DEKIT IS INSTALLED ON THE EXIT DEVICE UPON ORDERING. ♦♦

Must Specify: 7700 Series ITEM # and DEKIT36 (for 36") or DEKIT48 (for 48") separately.
for Example: A7700EO36 US32D with Delayed Egress option,
ORDER: "**A7700EO36 US32D**" and "**DEKIT36 US32D**" as **two line items**.



Single Door

Pair of Doors

12 5/8"

KEEP PUSHING. THIS DOOR WILL OPEN IN 15 SECONDS. ALARM WILL SOUND.

4 1/8"

NOTE: STANDARD PACKAGING INCLUDES DECAL STICKER ON DOOR.

MUST ORDER CR602RF OR CR631RF POWER SUPPLY TO HONOR WARRANTY AND UL MARKING

Alarm Exit Hardware



Rim Type Exit Devices

NALRMA770036	Alarm Rim Type 36” Door (Panic Grade)
NALRMA772048	Alarm Rim Type 48” Door (Panic Grade)
FNALRMA770036	Alarm Rim Type 36” Door (Fire Grade)
FNALRMA772048	Alarm Rim Type 48” Door (Fire Grade)

Vertical Rod Type Exit Devices

Prefix **“NALRM”** before PART #

Features

- 1, 3, 5-minute and continuous alarm type settings available
- ON and OFF power switch
- Alarm sound frequency is 120 db
- Alarm unit has internal horn. When the push rail is depressed, the horn sounds to provide an audible means of signaling that the door has been opened and breached.
- The key switch to turn alarm off is a standard 1 ¼” cylinder with “C” keyway. The alarm operates on one standard 9-volt transistor battery. When battery is weak the horn will emit an intermittent signal.
- Alarmed units are supplied with a micro switch, which monitors the push rail and the latch bolt for foolproof security on rim devices.
- Alarm unit has a signal OC output that can be linked to external alarm control systems.
- Unit includes “EMERGENCY EXIT ONLY • ALARM WILL SOUND” decal for application on door or unit.

Cylinder Dogging Kit

TO ORDER: Prefix “CD” before PART #. Available for all 7700 Series devices except fire exit hardware.
KIT ONLY: use PART # 36CD7700 for 36” and 48CD7700 for 48” devices. Specify finish.
NOTE: Use PART # 48CD9800 for 36” GLS Narrow Stile Rim and CVR Non-Fire Exit Devices.



Finishes (Refer to Price List for Stock Finishes)

Cal-Royal	Description	BHMA	US Finish	Material
10B	Oil Rubbed Bronze	613	US10B	Bronze
32D	Satin Stainless	630	US32D	Stainless Steel

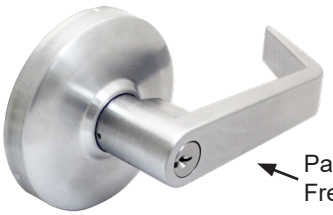
- **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW
- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

Trim Selection

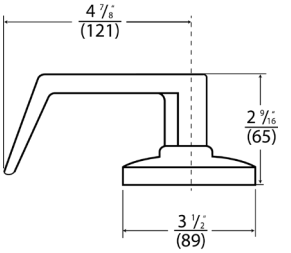
CLUTCH CYLINDRICAL LEVER

Non-Handed Grade 1 (Clutch Style)
Cylindrical body hardened steel heavy duty tailpiece. For 1 ¾" and 2 ¼" doors.
Prefix **"THI"** before Part # for 2 ¼" door thickness.
Available for fire and non-fire rated rim and vertical rod exit devices.
Rose diameter 3 ½", lever length 4 ¾". Fits and covers 161 cutout.
Finishes: US26D, US26, US3, US4, US10B, US10BE, US1

GN DESIGN ONLY: ENT00L, ICENT00L, STR05L, ICSTR05L, PAS30L, DUM40L IN US32D FINISH, ALL STAINLESS STEEL EXTERIOR. INCLUDES GRADE 304SS LEVER AND ROSE



GN DESIGN



ENT00L or ● **ICENT00L or** ● **ICSCENT00L4** ● **SARICENT00L** (Sargent) ● **RUSICENT00L** (Corbin / Russwin) ● **YALICENT00L** (Yale)	**ENTRANCE** Key locks and unlocks lever. Operates as CLASSROOM FUNCTION. ANSI Function (08)
8000K	Ball Knob Keylock
STR05L or ● **ICSTR05L or** ● **ICSCSTR05L4** ● **SARICSTR05L** (Sargent) ● **RUSICSTR05L** (Corbin / Russwin) ● **YALICSTR05L** (Yale)	**STOREROOM** Key operates lever, otherwise always locked. ANSI Function (09)
PAS30L	**PASSAGE** Trim always operable and free. ANSI Function (14)
DUM40L	**DUMMY** Dummy trim. One sided ANSI Function (02)

KEYWAY: 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

● **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW.**

● **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **SCHLAGE, CORBIN/RUSSWIN, SARGENT and YALE Full Size Format** Interchangeable Core

	KEYWAY	+ DESIGN	+ FUNCTION	+ FINISH
BEST, FALCON, & ARROW -	IC	AT	ENT00L	
SCHLAGE -	ICSC	SPA	STR05L	
CORBIN/RUSSWIN -	RUSIC	TUB*	PAS30L	
SARGENT -	SARIC	AUG	DUM40L	
YALE -	YALIC	DAN		
		LON		
		TAC		

HOW TO ORDER IN LFIC

Example: ICSCENT00L4 US26D
in "SPA" design is
ICSCSPAENT00L4 US26D

Note: Yale LFIC is only available in GN, AT, SPA lever designs | TUB* is only available in SFIC.

Other Lever Trim Designs

● Available in SFIC & LFIC



AT

● Available in SFIC & LFIC



SPA

● Available in SFIC



TUB

● Available in SFIC & LFIC
except YALE LFIC



AUG

● Available in SFIC & LFIC
except YALE LFIC



DAN

● Available in SFIC & LFIC
except YALE LFIC



LON

● Available in SFIC & LFIC
except YALE LFIC



TAC



8000K

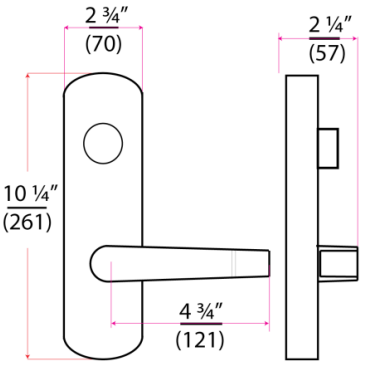
Anti-Microbial Coating available in US26D or US32D Only. Use part # "**ANTB-TRIM**" when ordering.

Trim Selection

RIGID LEVER ESCUTCHEON

CONSTRUCTION

- Rigid, non-clutch mechanism
- Double heavy duty spring support to prevent sagging and enhance operation
- Grade 1, thru-bolted design. Non-handed design. Easily field reversible
- Hardened steel heavy duty tailpiece. Available for fire and non-fire rated rim and vertical rod exit devices
- Standard 6-Pin Schlage "C" Mortise Cylinder included



DOOR THICKNESS

Standard 1 ¾". For 2 ¼" thick door use additional Part # TAIL3

ESCUTCHEON DIMENSIONS

2 ¾" width X 10 ¼" length. Lever length: 4 ¾".
Fits and covers 2 ⅛" 161 cutout

ESC7700 or ICESC7700 or ICSCESC7700	**ENTRANCE** Rigid Entrance, key locks or unlocks escutcheon trim ANSI Function (08) Operates as classroom function
ESC7705 or ICESC7705 or ICSCESC7705	**STOREROOM** Rigid Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked ANSI Function (09)
ESC7730	**PASSAGE** Trim always operable and free ANSI Function (14)
ESC7740	**DUMMY** Dummy Escutcheon trim ANSI Function (02)

TO ORDER other lever design insert "**AT**" or "**RL**" before "**ESC**":
e.g. **AT**ESC7700 for ESC7700 with AT design or **RL**ESC7700 for ESC7700 with RL design

KEYWAY: 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

FOR ELECTRIFIED TRIM OPTIONS SEE PAGE 12

- **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW
- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

Lever Trim Designs



ESC



ATESC



RLESC



TUBESC

Anti-Microbial Coating available in US26D or US32D Only. Use part # "**ANTB-TRIM**" when ordering.

Trim Selection

HEAVY DUTY STAINLESS STEEL CLUTCH LEVER ESCUTCHEON (High Frequency Abusive Situation such as Schools, Hospitals, Industrial / Institutional)

CONSTRUCTION

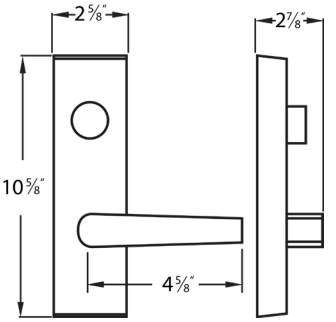
- Clutch mechanism
- Double heavy duty spring support to prevent sagging and enhance operation
- Grade 1, thru-bolted design. Non-handed design. Easily field reversible
- All Stainless Steel heavy duty tailpiece.
  Available for fire and non-fire rated rim and vertical rod exit devices
- Standard 6-Pin Schlage "C" Mortise Cylinder included

DOOR THICKNESS

Standard 1 ¾" to 2".
For 2" or 2 ½" thick door use additional Part # TAIL9

ESCUTCHEON DIMENSIONS

2 5/8" width X 10 5/8" length. Lever length: 4 5/8".
Fits and covers 2 1/8" 161 cutout



HDESC-00 or
ICHDESC-00
ICSCHDESC-00
HDTSESC-00
ICHDTSESC-00
ICSCHDTSESC-00

ENTRANCE
Clutch Entrance, key locks or unlocks escutcheon trim.
ANSI Function (08)
Operates as classroom function

HDESC-05 or
ICHDESC-05
ICSCHDESC-05
HDTSESC-05
ICHDTSESC-05
ICSCHDTSESC-05

STOREROOM
Clutch Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked. ANSI Function (09)

HDESC-30
HDTSESC-30

PASSAGE
Trim always operable and free
ANSI Function (14)

HDESC-40
HDTSESC-40

DUMMY
Dummy Escutcheon trim
ANSI Function (02)

FOR ELECTRIFIED TRIM OPTIONS, SEE PAGE 12

TO ORDER RL lever design, add "**RL**" after "**HD**" when ordering.
e.g. HD**RL**ESC-00 for HDESC-00 with RL design.

KEYWAY: 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

(IC) INTERCHANGEABLE CORE: Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

(ICSC) INTERCHANGEABLE CORE: Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

Lever Trim Designs



HDESC



HDTSESC



HDRLESC

Anti-Microbial Coating available in US32D Only.
Use part # "**ANTB-TRIM**" when ordering.

Trim Selection

PULL DESIGN

7700 NL
- **IC7700NL**
- **ICSC7700NL**

FOR RIM DEVICES ONLY
Outside by pull and key.
Key retracts latch bolt.
ANSI function (03)
Covers 161 cutout

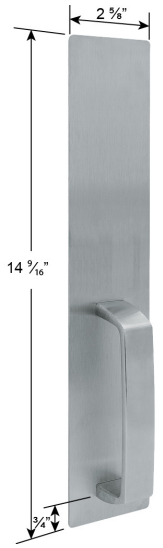
KEYWAY
Standard 6-Pin solid brass “C” keyway Rim Cylinder included.

FINISHES
Architectural plated finishes.



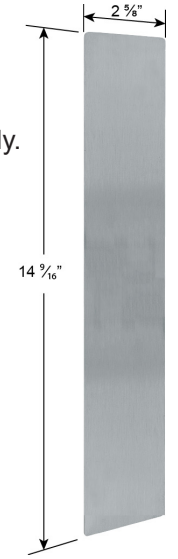
7700 DTP

Outside by pull only.
Pull when dogged.
ANSI function (02)
Covers 161 cutout.



7700 EOP

Outside by plate only.
ANSI function (01)
Covers 161 cutout



KEYED **DUMMY**

77TP00 or
- **IC77TP00**
- **ICSC77TP00**

ENTRANCE
Key locks or unlocks thumbpiece.
(Operates as classroom function)
ANSI Function (05)

77TP05 or
- **IC77TP05**
- **ICSC77TP05**

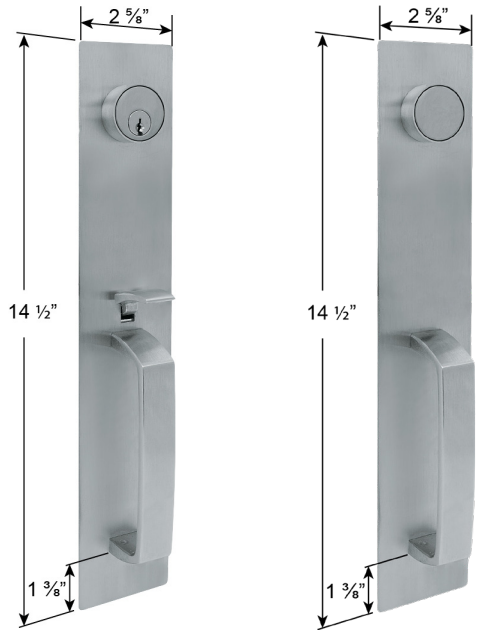
STOREROOM
Key unlocks thumbpiece, thumbpiece retracts latch bolt, otherwise always locked.
ANSI Function (06)

77TP30

PASSAGE
Trim always operable and free.
ANSI Function (15)

77TP40

DUMMY
Dummy trim. **Includes blank Mortise dummy cylinder.** One sided.
ANSI Function (02)



KEYWAY: 6-Pin solid brass “C” keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

- **(IC) INTERCHANGEABLE CORE**
  Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW.
- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

FINISHES
Architectural plated finishes.

Electrified Lever Trim

Cal-Royal's electrified lever trim provides remote locking and unlocking capabilities using industry safety standards. The solenoid can be energized from a distant controller, thus allowing access control of the opening.

The control of stairwells in high-rise buildings is a common application for this trim, where electric pullback of the exit device's latch bolt is cost prohibitive or not required. This is especially practical in applications where fire/life safety codes require a "fail-safe" condition which is not an option with electrified latch pullback devices. Because the current draw is quite low there is no need for a more expensive power supply to provide the surge current.

Features
- Continuous duty solenoids used to insure trouble-free operation
- Internally mounted solenoid to ease installation (no special door prep required)
- No hassle 3-year warranty

Options
- Available Fail Safe (Electrically Locked) or Fail Secure (Electrically Unlocked)
- Voltage options – 12V or 24V (AC / DC)
- Request to Enter Switch (REE) available
- CRU2 – Current Reduction Unit to improve solenoid life in "continuously on" applications

Specifications
Solenoid..... Continuous Duty

Operating Voltage.... 12 or 24V AC / DC ± 10%
(must specify 12 or 24 volts when ordering)

Amperage.....250mA @ 12V or 150mA @ 24V

Coil Resistance.....12V = 49Ω or 24V = 159Ω

To order, Specify:

OPTIONS: FAIL SAFE (**FS**)
FAIL SECURE (**FSE**)

ITEM#	DESCRIPTION
FS12	FS12 FAIL-SAFE OPTION 12V AC/DC
FS24	FS24 FAIL-SAFE OPTION 24V AC/DC
FSE12	FSE12 FAIL-SECURE OPTION 12V AC/DC
FSE24	FSE24 FAIL-SECURE OPTION 24V AC/DC

Lever Trim Designs


ESC


ATESC


RLESC


TUBESC


HDESC


HDTSESC


HDRLESC

Anti-Microbial Coating available in US26D or US32D Only. Use part # "**ANTB-TRIM**" when ordering.

TO ORDER other design add "**ESC77**", "**ATESC77**", "**RLESC77**", "**TUBESC77**"
e.g. FSE24**ATESC77** for ESC77 in AT design or FSE24**RLESC77** for ESC77 in RL design

TO ORDER heavy duty design add **HD, TS, or RL** to Item #
e.g. FS12**HD** or FS12**TS** or FS12**RL**

(ELR) Electric Latch Retraction

Our motor driven electrified latch pullback exit device allows for remote keyless access control in high occupancy / high traffic conditions where exit devices are required. Common applications include conditions such as hospitals, airports, schools, churches and they are commonly specified in applications that require automatic door openers. The device may be continuously energized allowing for a push / pull condition if desired.

Features:

- Available on 7700 Series, including rim, vertical rod, concealed vertical rod, mortise exit device, fire and non fire-rated devices
- MM4S Smart Module: On board diagnostics with audible feedback for adjustment and power issues
- "PTS" (Push to Set Technology): 5 second electronic adjustment for easy post installation adjustment
- Electric dogging rated for continuous duty - Auto retraction if dogged push pad is pulled from position
- Low Current Draw - Field switchable to "High Torque" mode
- Up to 300' wire run with (2) 18ga wire - Long wire runs provides installer with convenience of placing the locking device power supply in a centralized location; i.e. the same closet as the access panel
- 8' cable with Quick Connect for MM4S module to easily connect to power supply lead
- 3-year "No Hassle" warranty

Specifications:

- Voltage – 22 to 28V DC
- System protection – unit shutdown when voltage exceeds 28V DC
- Average In-rush Current – 900mA; Average Hold Current - 215mA
- PTS adjustment – approx. ¼"
- Wire run: 300' with 18ga wire



INSTALLED ON THE EXIT DEVICE: USE FLR7700 ADD

FOR FIELD INSTALLATION USE FLR7700 KIT

To Order:

- **Must Specify: Exit Device item #** and **FLR7700 ADD** as two separate line items. For Example: A7700EO36 US32D with ELR option, order "**A7700EO36 US32D", and "FLR7700 ADD"** as two line items.
- ***Use FLR7700 KIT if ordered separately.***
- **Optional Switch** (RX or LX) is also available and should be added as a **3rd line item** as needed.

Note: When using electrified hinge, you must use prefix ELELRn + hinge item code, where "n" is equal to number of wires. For example: ELELR4 + BB31.

MUST USE CRP POWER SUPPLIES TO HONOR WARRANTY (see pages 97-98)

Signal Switch RX and LX

RX (request to exit) signal switch is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the touch bar.

LX (latch bolt monitoring) signal switch monitors both egress and access of an opening. When the latch bolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the latch bolt position.

LX and **RX** switches can be combined.

LX, RX switches can be used in combination with ELR (electric latch retraction) option.

Specifications

RX or **LX**.....Switch rated 0.5 amps @ 24V AC / DC resistive
Low current **RX** or **LX**.Switch rated 0.5 amps @ 24V AC / DC resistive

for Factory Installed. To Order, Specify:

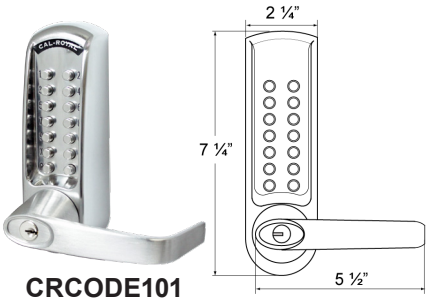
RX7700.....Request to Exit switch for field installation
LX7700.....Latch bolt Monitoring switch for field installation
LXRX7700.....Latch bolt Monitoring / Request to Exit Combination

Heavy Duty Digital Exit Trims

MECHANICAL CRCODE101

Features

- Heavy Duty
- Designed for 6600, 7700 and 9800 Series
- Grade 1 Rim and Surface Vertical Rod Exit Devices
- Single Code (up to 8000 code combinations)
- Weather-Resistant finish
- Code can be changed anytime without dismounting
- Full size, Non-Handed lever handle
- Easy Installation
- Reversible Handing

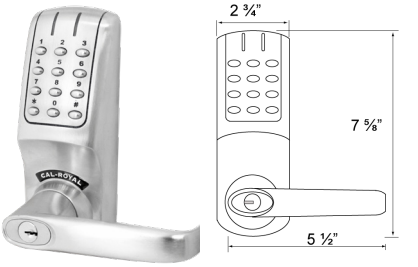


CRCODE101

ELECTRONIC CRCODE007

Features

- Dual mode for code free entry either mechanically by key or electronically thru the keypad
- Designed for 6600, 7700 and 9800 Series Rim Exit Devices
- Can store up to 90 different numeric user codes in 4, 5 or 6 digits
- Settings remain in memory when batteries are removed
- Audible alarm sounds after 3 incorrect attempts
- Connections available for remote release switch and automatic lock activation when linked to Fire alarm system
- Can be used as STOREROOM or CLASSROOM function
- Factory default set as STOREROOM function
- Fast and easy programming via master code

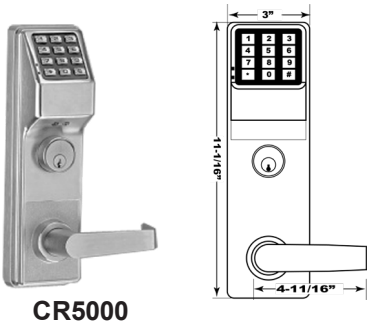


CRCODE007

CR5000 TRILOGY® KEYLESS EXIT TRIM

Features

- Clutch mechanism insures long life and durability
- Fingertip and / or Windows programmable
- 2000 User Codes: Master, manager, supervisor and users
- Real Time Clock for up to 40,000 Event Time / Date-Stamped Audit Trail
- Up to 500 Lock / Unlock Schedules (with Time Zone Support)
- Rugged 12-Button Metal Keypad
- Non-Handed; Fully Field Reversible
- Adaptable to most major manufacturers of standard RIM and IC RIM Cylinders
- Battery operated; uses 5 AA batteries
- Optional Interchangeable Core available with Best, Falcon & Arrow

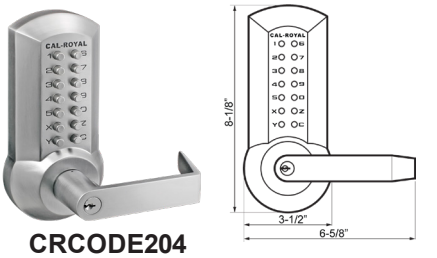


CR5000

MECHANICAL CRCODE204

Features

- Breakaway Lever Design
- Easy On-Door Code Change
- Weather Resistant
- Code-Free Option (Passage)
- Non-Handed
- 1 - 12 digit Length Code
- Thousands of Possible Code Combinations
- Single Code User
- Applications: Offices, Schools, Hospitals, Apartments, Hotels / Motels, Residential, Commerical and Public Buildings
- Door Thickness: 1 ¾" - 2"



CRCODE204



KABA® - Cal-Royal Combination

Cal-Royal's Exit hardware devices combined with **Kaba InSync CP** provide a variety of alternatives when addressing community access control. Recommended for applications such as controlling building entry openings, common area rooms and doors with exit devices. **InSync CP** are available as stand-alone battery operated door locks designed to work in conjunction with ***Cal-Royal's Exit Hardware Devices.***

KABA InSync CP is not sold through CAL-ROYAL. For inquiries and information on InSync line of products please visit ***www.kabamultihousing.com***

MCVR7700 & FMCVR7700 Series

Optional Less Bottom Rod (LBR)

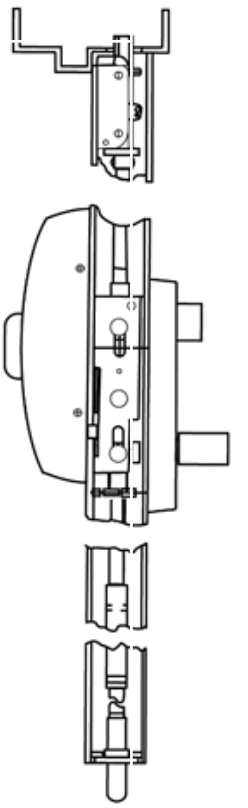
Grade 1 Concealed Vertical Rod Exit Device for Metal Doors

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997



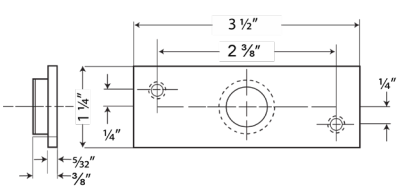
Specifications

LBR (Optional)	No bottom strike. Free access for wheel chairs, stretchers and carts which eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts.
For Doors	Metal. 1 ¾" (44.5 mm) minimum thickness 4 ½" (114 mm) minimum stile width
Top Chassis	Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
Chassis Cover	Non-ferrous plated material
Mounting	Furnished standard with machine screws
End Cap	Brass, Bronze or Stainless Steel construction
Hand	Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
ANSI Standard	A156.3, Grade 1
Strikes	260 top and 265 bottom
Top and Bottom Bolts	Stainless Steel . Top and bottom bolt travel 7/16" (11 mm) Projection adjustable up to 1" (25 mm)
Fire Exit Hardware	FMCVR7700 Series for fire exit hardware for all types of **8' x 10' double doors**, LBR Series for fire exit hardware for all types of **8' x 8' double doors** for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
Rail Height	Specify door opening and mounting height of center line of rail when ordering a Vertical Rod Exit Device 41" from floor
Trim	See Trim Designs section
Electronic Functions	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
Alarm	Prefix **"NALRM"** before PART #
Dogging Feature	Cylinder dogging available for non-rated applications
Anti-Microbial Coating	Available on US32D only. Use part # **ANTB-EXIT**



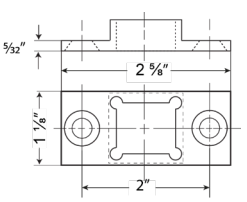
MODEL SIZE	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
M77CVR3684, FM77CVR3684, M77CVR3696, FM77CVR3696, M77CVR36120, FM77CVR36120	32"	6"	30" to 36" door width
M77CVR4896, FM77CVR4896, M77CVR48120, FM77CVR48120	44"	10"	38" to 48" door width

LBR Fire Rated is only available up to 36" x 96" Doors.



260 TOP STRIKE

- For applications metal frames
- Stainless Steel



265 BOTTOM STRIKE

- Furnished with expansion shields
- Mortised into floor
- Stainless Steel

WCVR7700 & FWCVR7700 Series

Optional Less Bottom Rod (LBR)
GRADE 1 Concealed Vertical Rod Exit Device for Wood Doors

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997



Specifications

LBR (Optional)..... No Bottom Strike. Free access for wheel chairs, stretchers and carts which eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts.

For Doors..... Wood. 1 ¾" (44.5 mm) minimum thickness
4 ½" (114 mm) minimum stile width

Top Chassis..... Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)

Chassis Cover..... Non-ferrous plated material

Mounting..... Furnished standard with machine screws

End Cap..... Brass, Bronze or Stainless Steel construction

Hand..... Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience

ANSI Standard..... A156.3, Grade 1

Strikes..... 260 top and 265 bottom

Top and Bottom Bolts..... Stainless Steel . Top and bottom bolt travel $^{7}/_{16}$" (11 mm)
Projection adjustable up to 1" (25 mm)

Fire Exit Hardware..... FWCVR7700 Series for fire exit hardware for all types of **8' x 10' double doors**,
LBR Series for fire exit hardware for all types of **8' x 8' double doors** for up to
3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes

Rail Height..... Specify door opening and mounting height of center line of rail when ordering
a Vertical Rod Exit Device 41" from floor

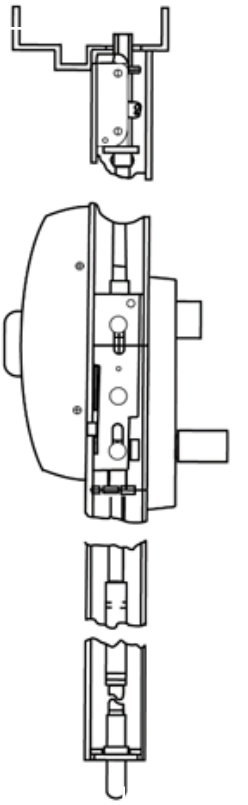
Trim..... See Trim Designs section

Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

Alarm..... Prefix **"NALRM"** before PART #

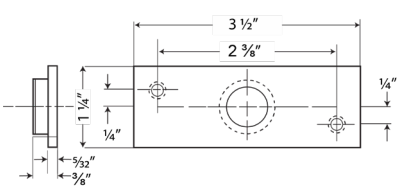
Dogging Feature..... Cylinder dogging available for non-rated applications

Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**

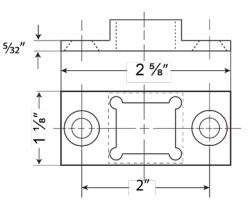


MODEL SIZE	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
W77CVR3684, FW77CVR3684, W77CVR3696, FW77CVR3696, W77CVR36120, FW77CVR36120	32"	6"	30" to 36" door width
W77CVR4896, FW77CVR4896, W77CVR48120, FW77CVR48120	44"	10"	38" to 48" door width

LBR Fire Rated is only available up to 36" x 96" Doors.



260 TOP STRIKE
- For applications metal frames
- Stainless Steel



265 BOTTOM STRIKE
- Furnished with expansion shields
- Mortised into floor
- Stainless Steel

Trim Selection

ESCUTCHEON LEVER DESIGN

CONSTRUCTION

- Free-wheeling clutch mechanism
- Grade 1, thru-bolted design
- Non-handed design. Easily field reversible.

FINISHES

Architectural plated finishes

DOOR THICKNESS

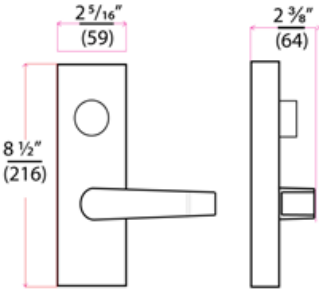
Standard 1 ¾”

ESCUTCHEON DIMENSIONS

2 $^{5}/_{16}$” width X 8 ½” length. Lever length: 4 ¾”.
Fits and covers 2 ⅛” 161 cutout



CVRESC



CVRESC00 or ICCVRESC00 or ICSCCVRESC00	**ENTRANCE** Clutch Entrance, key locks or unlocks escutcheon trim ANSI FUNCTION (08) Operates as classroom function
CVRESC05 or ICCVRESC05 or ICSCCVRESC05	**STOREROOM** Clutch Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked, ANSI FUNCTION (09)
CVRESC30	**PASSAGE** Trim always operable and free, ANSI FUNCTION (14)
CVRESC40	**DUMMY** Dummy Escutcheon trim, ANSI FUNCTION (02)

KEYWAY: 6-Pin solid brass “C” keyway Mortise Cylinder standard.
Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

Lever Trim Designs



RLCVRESC



ATCVRESC



TUBCVRESC

Anti-Microbial Coating available in US26D Only. Use part # “**ANTB-TRIM**” when ordering.

- **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW
- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

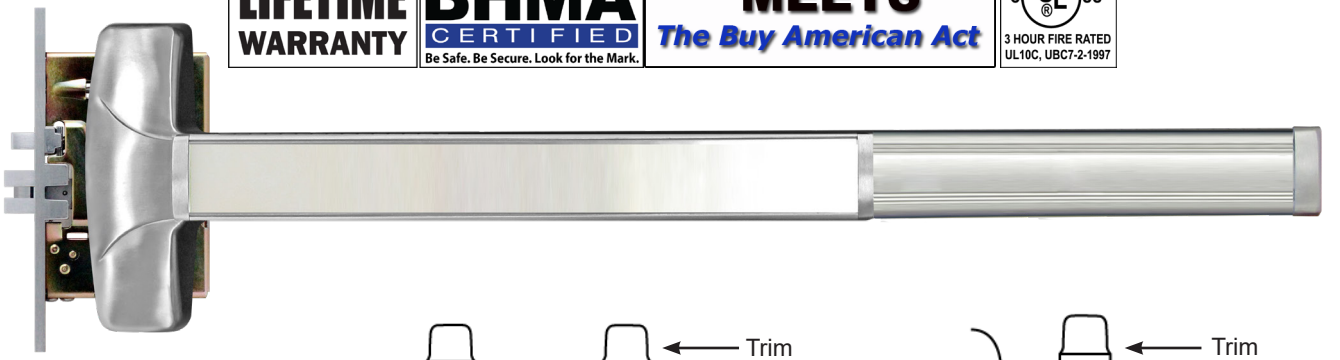
**FOR ELECTRIFICATION OPTION:
SPECIFY ITEM# UPON ORDERING
FOR ENTRANCE, STOREROOM, AND
PASSAGE ESCUTCHEON LEVER TRIMS**

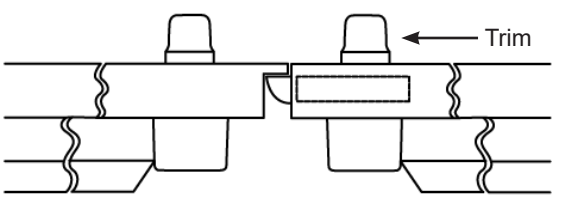
ITEM#	DESCRIPTION
FS12CVR	FAIL-SAFE (**FS**) OPTION 12V AC / DC
FS24CVR	FAIL-SAFE (**FS**) OPTION 24V AC / DC
FSE12CVR	FAIL-SECURE (**FSE**) OPTION 12V AC / DC
FSE24CVR	FAIL-SECURE (**FSE**) OPTION 24V AC / DC

MR7700 & FMR7700 Series

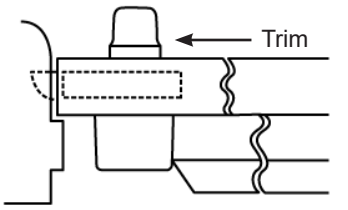
GRADE 1 Mortise Lock Exit Device

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997





Pair of Doors



Single Doors

Specifications

For Doors..... Wood / Metal 1 ¾" (44.5 mm) minimum thickness
4 ½" (114 mm) minimum stile width

Chassis..... Non-ferrous Alloy

Chassis Cover..... Non-ferrous plated material

Mounting..... Furnished standard with wood and machine screws

End Cap..... Brass, Bronze or Stainless Steel construction

Handing..... Handed. Non-Reversible. Specify RHR or LHR for convenience

ANSI Standard..... A156.3, Grade 1

Strikes..... Standard ANSI strike

Fire Exit Hardware..... FMR7700 Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.

Mortise Lock..... Grade (1) for 1 ¾" (44.5mm) thick doors. Handed (Non-Reversible). Specify RHR or LHR. Fits door prepared for ANSI Standard A115.1

Trim..... See Trim Designs section

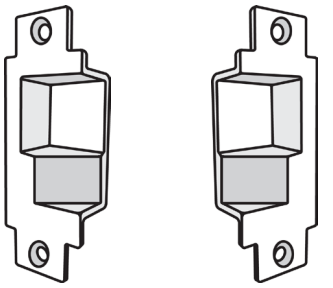
Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

Alarm..... Prefix "**NALRM**" before PART #

Dogging Feature..... Cylinder dogging available for non-fire rated applications

Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**

OPTIONAL OPEN BACK STRIKE



OBSTRKLH OBSTRKRH

MODEL SIZE	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
MR7700EO36, FMR7700EO36 MR7705EO36, FMR7705EO36	32"	6"	30" to 36" door width
MR7700EO48, FMR7700EO48 MR7705EO48, FMR7705EO48	44"	12"	36" to 48" door width

MR7700 & FMR7700 Series

GRADE 1 Mortise Lock Exit Device

Trim Selection

ESCUTCHEON LEVER DESIGN

FINISHES
Architectural plated finishes

DOOR THICKNESS
Standard 1 ¾”

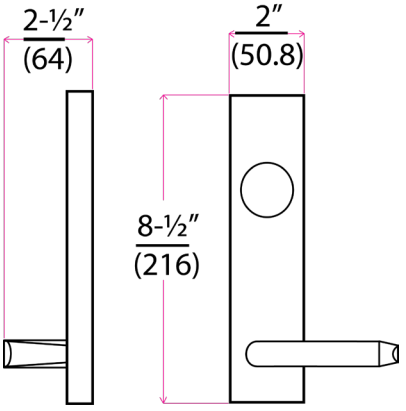
HANDING
Non-Handed Trim

ESCUTCHEON DIMENSIONS
2” width X 8 ½” length.
Lever length: 4 ¾”.



IMPORTANT: MR7700 and FMR7700 Mortise Lock case comes standard with exit device. (TRIMS SOLD SEPARATELY)

MRESC-00 or MRESC00TS or ICMRESC-00 or ICSCMRESC-00 ICMRESC-00TS	**ENTRANCE** Key locks or unlocks lever Operates as classroom function ANSI FUNCTION (08)
MRESC-05 or MRESC05TS or ICMRESC-05 or ICSCMRESC-05 or ICMRESC-05TS	**STOREROOM** Key retracts latch bolt, otherwise always locked ANSI FUNCTION (09) *MUST USE MR7705EO36/48 Mortise Rim Exit
MRESC-30 MRESC30TS	**PASSAGE** Trim always operable and free ANSI FUNCTION (14) ***MUST USE MR7705EO36/48 Mortise Rim Exit**



Anti-Microbial Coating available in US26D Only.
Use part # “**ANTB-TRIM**” when ordering.

KEYWAY: 6-Pin solid brass “C” keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

- **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW
- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

MORTISE LOCK CASE ELECTRIFICATION OPTION: SPECIFY ITEM# UPON ORDERING

(MORTISE LOCK CASE COMES STANDARD WITH EXIT DEVICE)

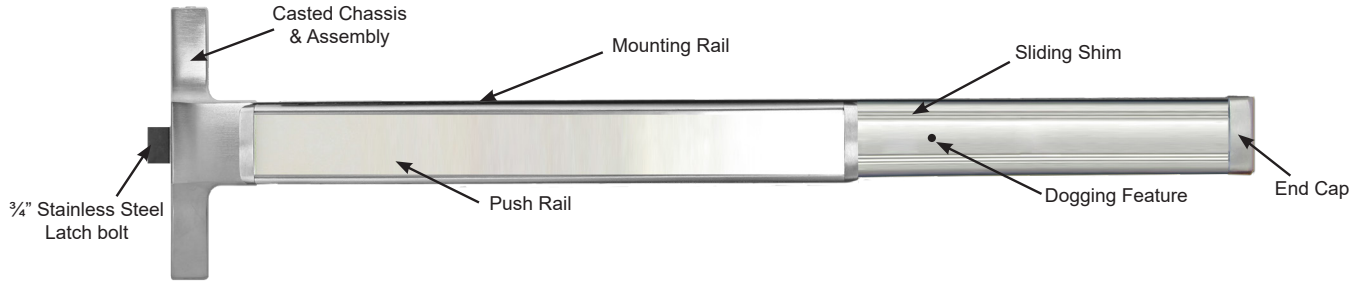
ITEM#	DESCRIPTION
FS12MR	FAIL-SAFE (**FS**) OPTION 12V AC / DC
FS24MR	FAIL-SAFE (**FS**) OPTION 24V AC / DC
FSE12MR	FAIL-SECURE (**FSE**) OPTION 12V AC / DC
FSE24MR	FAIL-SECURE (**FSE**) OPTION 24V AC / DC

Must be used with MRESC00 Trim.

GLS7700 & FGLS7700 Series

GRADE 1 Rim Type Narrow Stile Exit Device

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | cULus PANIC & SAFETY | cULus 3 HOUR FIRE RATED UL10C, UBC7-2-1997



Specifications

For Doors..... Wood, Metal or Aluminum Glass doors with 1 ¾" minimum stile width, 1 ¾" thickness for single or double door application

Chassis..... Non-ferrous Alloy (Panic Grade)

Cover..... Non-ferrous plated material.

Mounting..... Furnished with wood and machine screws. Thru-bolts available upon request.

End Cap..... Brass, Bronze or Stainless Steel construction

Alarm..... Available for 36" bar only. Prefix **"NALRM"** before PART #

Hand..... Non-handed

Latch Bolt..... Stainless Steel ¾" throw

Spring..... Stainless Steel throughout

ANSI Standard..... A156.3, Grade 1

Rail Assembly..... Heavy gauge extruded aluminum body with Stainless Steel push pad

Strike..... 246 packed standard. Optional 247 strike. (See strike page)

Dogging Feature..... Available for 36" bar only. Allen-type key furnished standard.

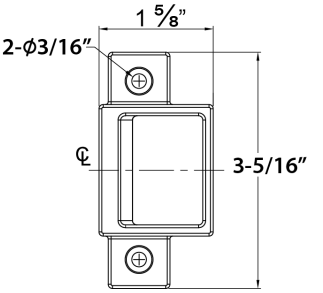
Mullion..... Available

UL and ULC Listed..... GLS7700 Series for Panic & Safety for all types of 4' x 8' single doors and 8' x 8' double doors. FGLS7700 Series for all types of 4' x 8' single doors for up to 3 hour fire labeled installations. Conforms to UL10C and UBC7-2-1997 codes.

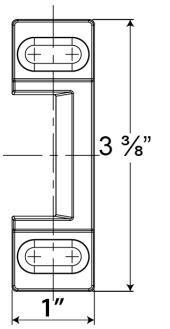
Finish..... Architectural plated finishes

Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**



246 STRIKE



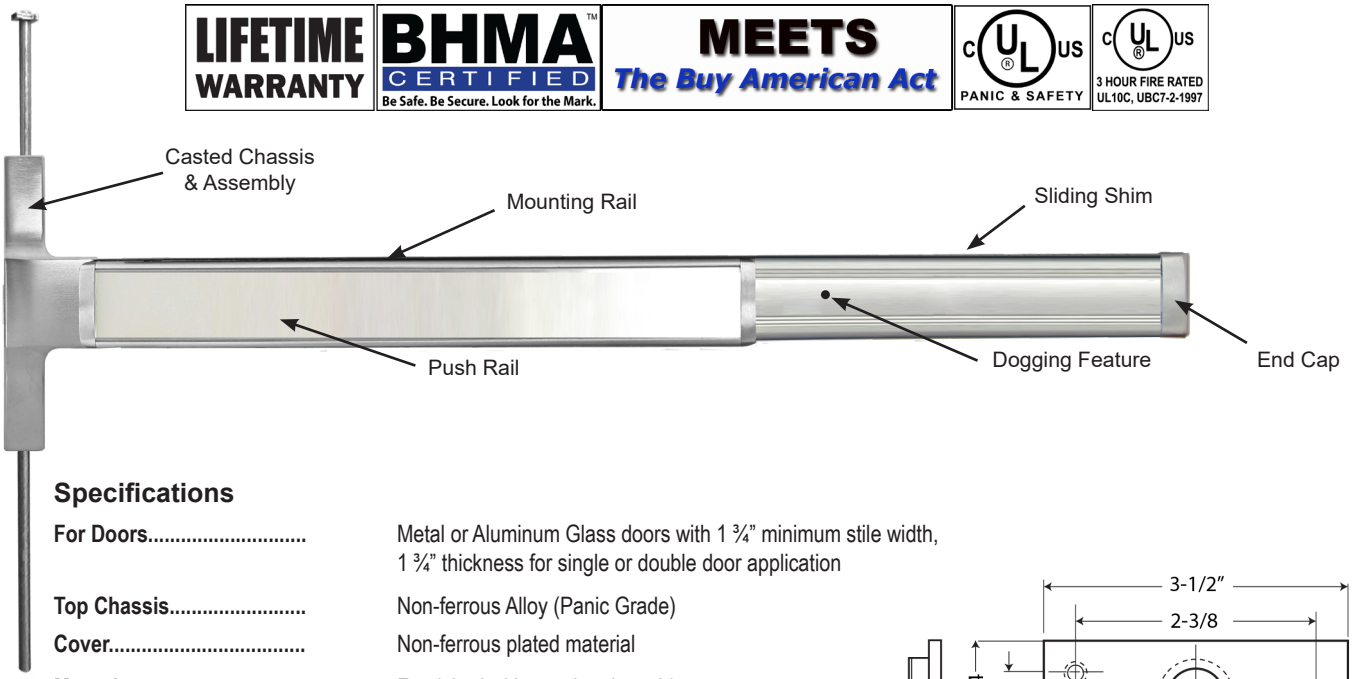
247 STRIKE (OPTIONAL)

DIMENSIONS			
Push Rail height to finished floor	41" (1041 mm) at center		
Push Rail projection			
Neutral	3 5/8" (92 mm)		
Depressed	2 7/8" (73 mm)		
Center case	8 1/16" x 1 1/8" x 2 3/8"(205 mm x 29 mm x 60 mm)		
MODEL	**ACTUAL LENGTH**	**MAX CUT DOWN**	**DOOR SIZE**
GLS7700EO36, FGLS7700EO36	34 9/64"	10"	26" to 36" width
GLS7700EO48, FGLS7700EO48	45 29/32"	12"	36" to 48" width

GLSCVR7700 & FGLSCVR7700 Series

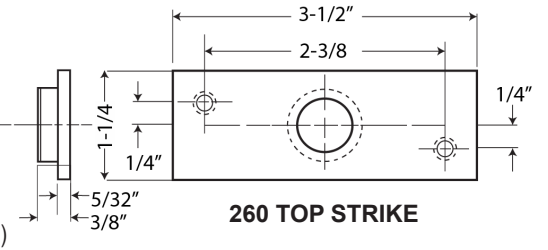
GRADE 1 Concealed Vertical Type, Narrow Stile Exit Device
Optional Less Bottom Rod (LBR)

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | cULus PANIC & SAFETY | cULus 3 HOUR FIRE RATED UL10C, UBC7-2-1997

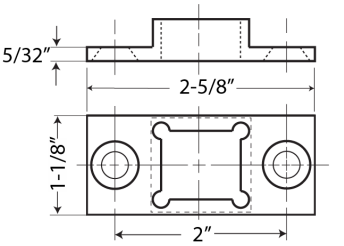


Specifications

For Doors	Metal or Aluminum Glass doors with 1 ¾" minimum stile width, 1 ¾" thickness for single or double door application
Top Chassis	Non-ferrous Alloy (Panic Grade)
Cover	Non-ferrous plated material
Mounting	Furnished with wood and machine screws
End Cap	Brass, Bronze or Stainless Steel construction
Hand	Handed. Specify RHR or LHR
Top and Bottom Bolts	Stainless Steel. Top and bottom bolt travel 7/16" (11 mm) Stainless Steel. Adjustable to 1" (25 mm)
Spring	Stainless Steel throughout
ANSI Standard	A156.3, Grade 1
Rail Assembly	Heavy gauge extruded aluminum body with Stainless Steel push pad
Strike	260 Top and 265 Bottom strikes packed standard (See strike page)
Dogging Feature	Available for 36" bar only. Allen-type key furnished standard.
Mullion	Available
UL and ULC Listed	GLSCVR7700 Series for Panic & Safety for all types of 4' x 8' single doors and 8' x 8' double doors for Panic & Safety. FGLSCVR7700 Series for all types of 4' x 8' single doors for up to 3 hour fire labelled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.
Finish	Architectural plated finishes
Electronic Functions	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
Anti-Microbial Coating	Available on US32D only. Use part # **ANTB-EXIT**



260 TOP STRIKE



265 BOTTOM STRIKE

DIMENSIONS			
Push Rail height to finished floor	41" (1041 mm) at center		
Push Rail projection			
Neutral	3 5/8" (92 mm)		
Depressed	2 7/8" (73 mm)		
Center case	8 1/16" x 1 1/8" x 2 3/8"(205 mm x 29 mm x 60 mm)		
MODEL	**ACTUAL LENGTH**	**MAX CUT DOWN**	**DOOR SIZE**
GLSCVR773684, FGLSCVR773684	34 9/64"	10"	26" to 36" width
GLSCVR774884	45 29/32"	12"	36" to 48" width

Trim Selection

ESCUTCHEON LEVER DESIGN

CONSTRUCTION

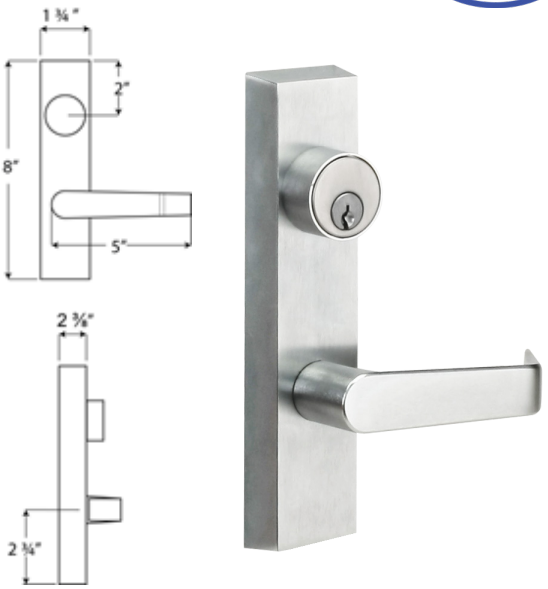
- Free-wheeling clutch mechanism.
- Grade 1, thru-bolted design. Reversible design
- Hardened steel heavy duty tailpiece.
- Available for rim and concealed vertical rod exit devices

DOOR THICKNESS

Standard 1 ¾”

ESCUTCHEON DIMENSIONS

1 $^{13}/_{16}$” width X 8” length
Lever length: 5”



GLSRIM9800
GLSCVR9800
ICGLSRIM9800
ICSCGLSRIM9800
ICGLSCVR9800
ICSCGLSCVR9800

ENTRANCE
Clutch free-wheeling Entrance, key locks or unlocks escutcheon trim ANSI Function (08) Operates as classroom function
CVR is used for Concealed Vertical Rod Exit Device
RIM is used for Rim Type Exit Device

GLSRIM9805
GLSCVR9805
ICGLSRIM9805
ICSCGLSRIM9805
ICGLSCVR9805
ICSCGLSCVR9805

STOREROOM
Clutch free-wheeling Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked.
ANSI Function (09)
CVR is used for Concealed Vertical Rod Exit Device
RIM is used for Rim Type Exit Device

GLSRIM9830
GLSCVR9830

PASSAGE
Trim always operable and free
ANSI Function (14)
CVR is used for Concealed Vertical Rod Exit Device
RIM is used for Rim Type Exit Device

GLSRIM9840
GLSCVR9840

DUMMY
Dummy Escutcheon trim ANSI Function (02)
CVR is used for Concealed Vertical Rod Exit Device
RIM is used for Rim Type Exit Device

IMPORTANT: GLS9800 and GLSCVR9800 Trims can be used with GLS7700 and GLSCVR7700 Exit Devices

NOTES:

- AT, RL, TUB lever design is available upon request.
- **ELECTRIFICATION NOT AVAILABLE FOR TRIM**
- Electrical Latch Retraction (**ELR**), Request to Exit (**RX**) and Latchbolt Monitoring (**LX**) available for Exit Device only.
- Anti-Microbial Coating available in US26D Only. Use part # “**ANTB-TRIM**” when ordering.

KEYWAY: 6-Pin solid brass “C” keyway Rim Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Secity Cylinders.

- **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW
- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

Trim Selection

PULL DESIGN - FOR GLS7700 RIM EXIT DEVICE ONLY

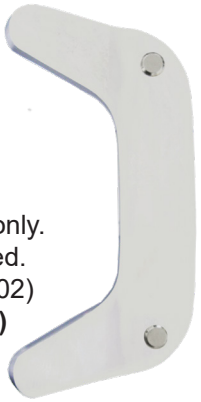
98GLSNL
- **IC98GLSNL**
- **ICSC98GLSNL**

Outside by pull and key.
Key retracts latch bolt.
ANSI Function (03)
(SPECIFY HANDING)



98GLSUP

Outside by pull only.
Pull when dogged.
ANSI Function (02)
(NON-HANDED)



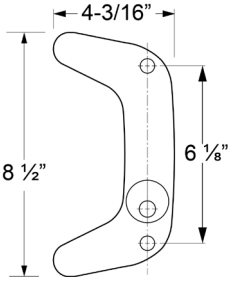
GLSRIMEOP

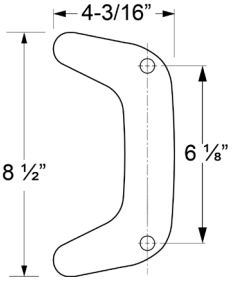
Outside cover plate only.
ANSI Function (01)

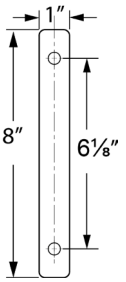


KEYWAY
Standard 6-Pin solid brass “C” keyway Rim Cylinder included.

FINISHES
Architectural plated finishes.







IMPORTANT: GLS9800 and GLSCVR9800 Trims can be used with GLS7700 & GLSCVR7700 Exit Devices

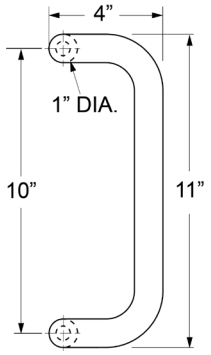


98GLSCYL-1



- **IC98GLSCYL-1**
- **ICSC98GLSCYL-1**





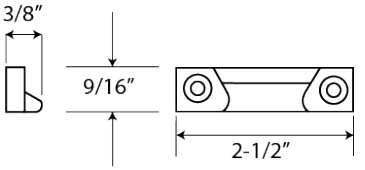
OFSTPUL-10
(REVERSIBLE)

KEYWAY: 6-Pin solid brass “C” keyway Rim Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

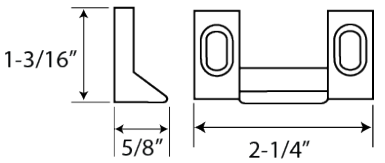
- **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW
- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

Strikes & Accessories

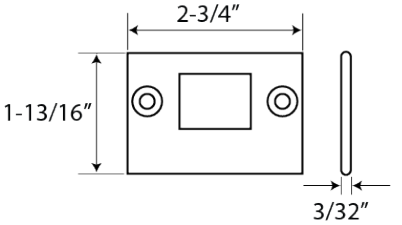
Strikes for use with A9860V Vertical Rod Exit Device
All strikes are black nylon coated



221
Standard for A7760V. Applied to surface of floor or to a flat threshold. Standard packaging.

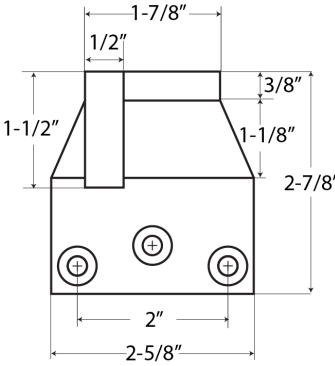


227
Applied to surface of stop. No mortise required. Standard packaging.



233
Bottom strike. Alternate bottom strike. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.

Overlapping Strikes

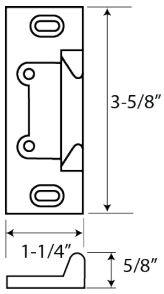


951
Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion.

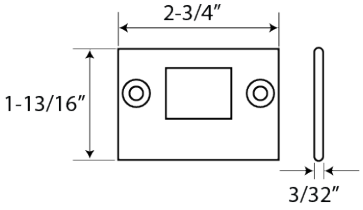
Additional Rods

Vertical rod for 10 feet high doors available on non-fire rated vertical rod devices only. Use Part # **VRRD10**.

Strikes for use with A7760V Vertical Rod Fire Exit Device

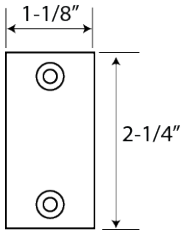


245
Surface applied for F7760. Standard packaging.

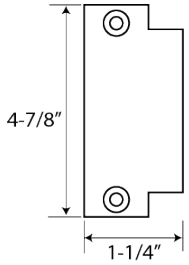


233
Bottom strike for F7760. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor. Standard packaging.

Additional Accessories

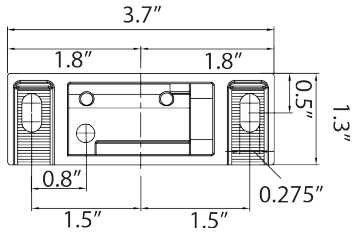


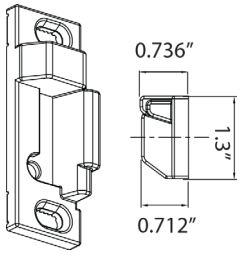
LFF
Lock front filler



SF
Strike filler

Strikes for use with A7700 Rim Type Exit Device

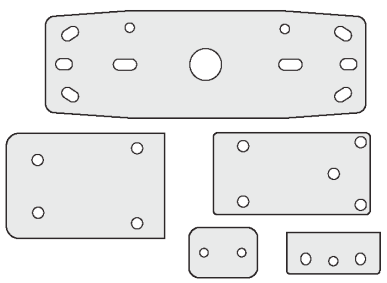




938
for A7700 surface applied. Standard packaging.

GLASS BEAD SHIM KITS

901 – For rim type, ⅛" thick
906 – For vertical type, ⅛" thick
912 – For fire rated type, ⅛" thick



Fire Exit Hardware Selector

FIRE EXIT HARDWARE RATING			UL DOOR RATING
APPLICATION	**MODEL #**	**MAXIMUM DOOR OPENING**	**(A) 3 HOUR**
SINGLE DOORS Rim type	AF7700EO36 AF7720EO48	4'0" X 8'0"	✓
PAIRS OF DOORS Two surface mounted standard vertical rod type or less bottom rod (LBR) application. Prefix **LBR** before Part # a) Swinging in same direction b) Swinging in opposite direction (double egress)	AF7760V3684 X AF7760V3684	8'0" X 7'2"	✓
	AF7790V3696 X AF7790V3696 AF7780V4896 X AF7780V4896	8'0" X 8'0"	✓
PAIRS OF DOORS Two rim type with Mullion	AF7700EO36 AF7720EO48	8'0" X 8'0"	✓

All fire rated exit devices in all applications, are also labeled for (B) 1 ½ hour, (C) ¾ hour, (D) 1 hour, (E) ¾ hour.
All fire exit hardware meet UL10C and UBC 7-2-1997 codes.

HOW TO ORDER INFORMATION

Exit device model number

Panic grade

A7700 EO36 Rim type 36" door
A7720 EO48 Rim type 48" door
A7760 V3684 Vertical rod type 36" x 84"
A7790 V3696 Vertical rod type 36" x 96"
A7780 V4896 Vertical rod type 48" x 96"
VRRD10 – Rod for 10' non-rated door
A7750 V36120 Vertical rod type 36" x 120"
A7740 V48120 Vertical rod type 48" x 120"

Fire grade

AF7700 EO36 Rim type 36" door
AF7720 EO48 Rim type 48" door
AF7760 V3684 Vertical rod type 36" x 84"
AF7790 V3696 Vertical rod type 36" x 96"
AF7780 V4896 Vertical rod type 48" x 96"
AF7750 V36120 Vertical rod type 36" x 120"
AF7740 V48120 Vertical rod type 48" x 120"

1) Specify exit device model number according to size of door.
2) Specify trim selection. For Interchangeable Core prefix "IC" before Part #. See trim selection pages.
3) For vertical rod devices specify LHR (Left Hand Reverse) or RHR (Right Hand Reverse) for convenience easily field reversible, otherwise shipped as LHR.
4) Specify finish: US10B, US32D
5) On thru-bolt applications, fire rated vertical rod devices are packed with thru-bolts as standard feature. Thru-bolts are also available for other devices. To order thru-bolts add "SBN" to trim pack.

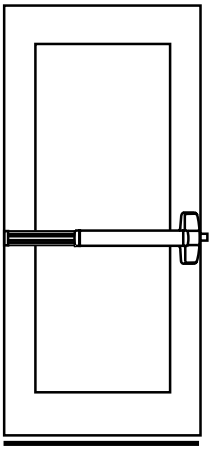
When ordering separately use following Part #

Cal-Royal Part # 357 —— Thru-bolts for rim devices, 6 pcs / pack.
Cal-Royal Part # 369 —— Thru-bolts for vertical rod devices, 14 pcs / pack.
Cal-Royal Part # 363 —— Thru-bolts for rim devices, 6 pcs / pack for 2 ¼" thick doors.
Cal-Royal Part # 375 —— Thru-bolts for vertical rod devices, 14 pcs / pack for 2 ¼" thick doors.

Ordering example: A7700E036 ALUM X SBN X ENT00L 26D
AF7780V4896 10B X ICSTR05L 10B

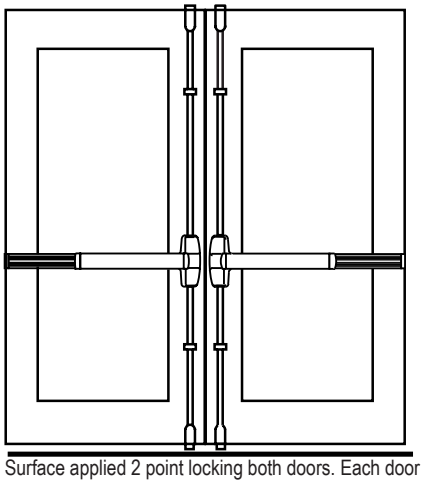
7700 Series
Fire and Non-Fire Exit Devices
ANSI A156.3 Grade 1 Selector Chart

SINGLE DOOR



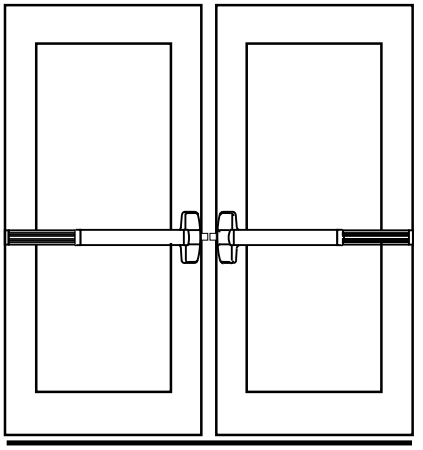
Vertical rod type or Rim type — Surface applied 2 point lock. Surface application

PAIR OF DOORS WITHOUT MULLION



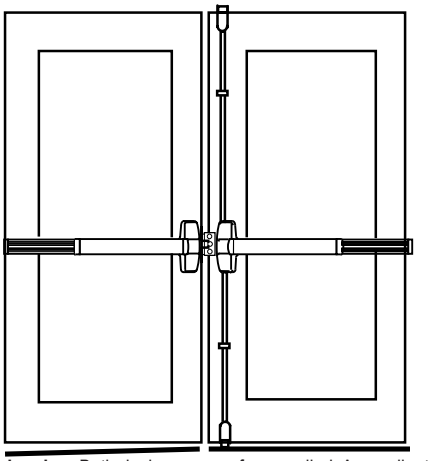
2 Vertical rod type — Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.

PAIR OF DOORS WITH MULLION



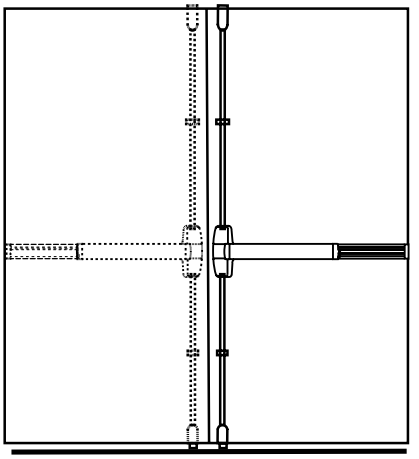
2 Rim type with mullion — Two independent active doors with full double door openings when required. Same direction.

PAIR OF DOORS WITHOUT MULLION



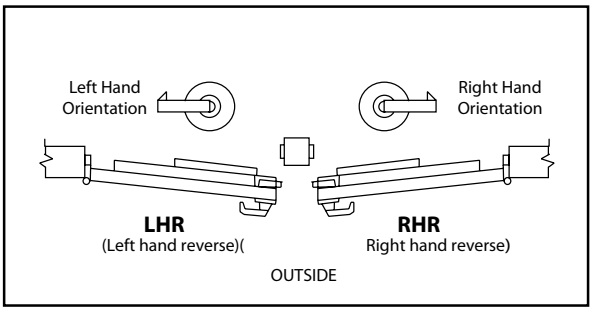
1 Vertical rod and 1 Rim type — Both devices are surface applied. A coordinator and overlapping strike is recommended.

PAIR OF DOORS WITHOUT MULLION



2 Vertical rod type — Double egress surface applied. 2 point locking both doors opposite directions.

HANDING



CAL-ROYAL PRODUCTS, INC.
6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com * Email: sales@cal-royal.com

Exit Devices
Comparison Chart

RIM EXIT DEVICE CONVERSIONS	RIM	VERTICAL ROD	RIM	VERTICAL ROD	CONCEALED VERTICAL ROD	MORTISE RIM	NARROW STILE RIM	NARROW STILE CVR
ARROW	S1200	S1100	S3800 / 1800	S3700	S3600	S3900	S4803	S4601
CAL-ROYAL	6600 / A9800 / A7700	6660V / A9860V / A7760V	A2200 / 4400	A2260V	CVR6600/ MCVR9800 / WCVR9800 / MCVR7700 / WCVR7700	MR6600/ MR9800 / MR7700	GLS6600 / GLS9800 / GLS7700	GLSCVR6600 / GLSCVR9800 / GLSCVR7700
CORBIN / RUSSWIN	ED8200	ED8400	ED5400 / ED6000	ED4750	ED5800	ED5600	ED4200	ED4800
DETEX	V4000	---	10	20	70	30	V40NS	60
DORMA	8300	8400	9300	9400	9100	9500	AD4300	AD4100
PRECISION	5100	5200	2100 / 100	9800 / 200	2800	2300	2400	2600
SARGENT	2828	2727	8800 / 9898	8700	MD8600 / WD8600	8900	AD8500	AD8410
VON DUPRIN	98 / 99	9827 / 9927	98	9827	9947EO	9975EO	33A	3348
YALE	2100	2110	7100 / 1500	7110 / 1510	7120	7130	7250	7220

Distributed by:

A9800 & AF9800 Rim Type Panic and Fire Exit Devices (ADA)
A9860V & AF9860V Vertical Rod Panic and Fire Exit Devices (ADA)
ANSI A156.3, Grade 1

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | ADA COMPLIANT | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997



Features & Construction

- **Retrofits Sargent 8800 Series using 9800 Escutcheon Trim**
- Americans with Disability Act (ADA) compliant. 5lbs opening force on ADA product only
- ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs
- Rail assemblies and end caps are brass, bronze or stainless steel and rail travels in direction of the door swing
- Trims are thru-bolted for additional security
- Conforms & meets ADA Regulations (ADA products only)
- UL Listed for Panic and UL10C, UBC 7-2-1997 codes
- UL Listed for Fire Exit Hardware. 3 hours
- (A) label rating on pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- Uncompromising security and safety in single and double fire exit doors
- Chassis mounted unit construction. Rim and vertical rod devices are non-handed and easily reversible.
- Available in many different functions. Lever and escutcheon trims are grade 1 construction with clutch on rose trims. Escutcheon trims are rigid and covers 161 cut out.
- For use in institutions, schools, universities, commercial buildings where heavy duty reliable operation is a requirement

Suggested Architect's Specifications

- All exit devices shall be of touch bar design with smooth operation and be operative over ⅔ of the door's clear opening width
- All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriter' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C
- UBC 7-2-1997 codes
- All springs shall be of stainless steel throughout
- All exit devices shall be of chassis mounted unit construction.
- All exit devices shall be ANSI A156.3, Grade 1, ADA option

A9800 & AF9800 ADA Series

GRADE 1, Rim Type Exit Device

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | ADA COMPLIANT | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997



*Americans with Disability Act (ADA) compliant
5 lbs opening force on ADA Series only*

*Refer to the Price List for Stock Sizes and Finishes

Specifications

For Doors..... 1 ¾" thick standard optional 2 ¼" thick. 4 ½" minimum stile width required for single or double door application using standard 239 strike and pull or lever, thumbpiece and escutcheon trims.
2 ¾" backset

Chassis..... Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)

Cover..... Brass, Bronze or Stainless Steel. Covers stock hollow metal doors with 161 cutout

Mounting..... Furnished with wood and machine screws. Available with thru-bolts on request. **Thru-bolts are included and standard packaging on fire rated devices**

Dogging Feature..... Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available

Mullion..... Available

UL and ULC Listed... A9800 Series for panic. AF9800 Series for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3-hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes

Finish..... Architectural plated finishes

Electronic Functions... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

Anti-Microbial..... Available on US32D only. Use part # **ANTB-EXIT**

End Cap..... Brass, Bronze or Stainless Steel construction

Alarm..... Available.

Hand..... Non handed, center hub

Latch Bolt..... Stainless Steel ¾" throw

Spring..... Stainless Steel throughout

ANSI Standard..... A156.3, Grade 1

Strike..... 239 packed standard (See strike page)

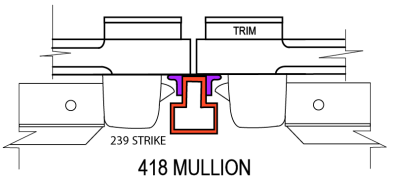
Trim..... See Trim Designs section

Minimum Stile Requirements

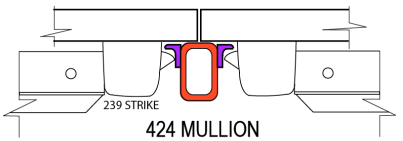
4" escutcheon trims and
4 ½" for thumbpiece and rose trim

DOUBLE DOOR

4½" MIN. STILE

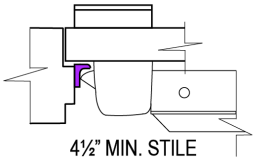


418 MULLION



424 MULLION
4⅝" MIN. STILE

SINGLE DOOR



4½" MIN. STILE

DIMENSIONS

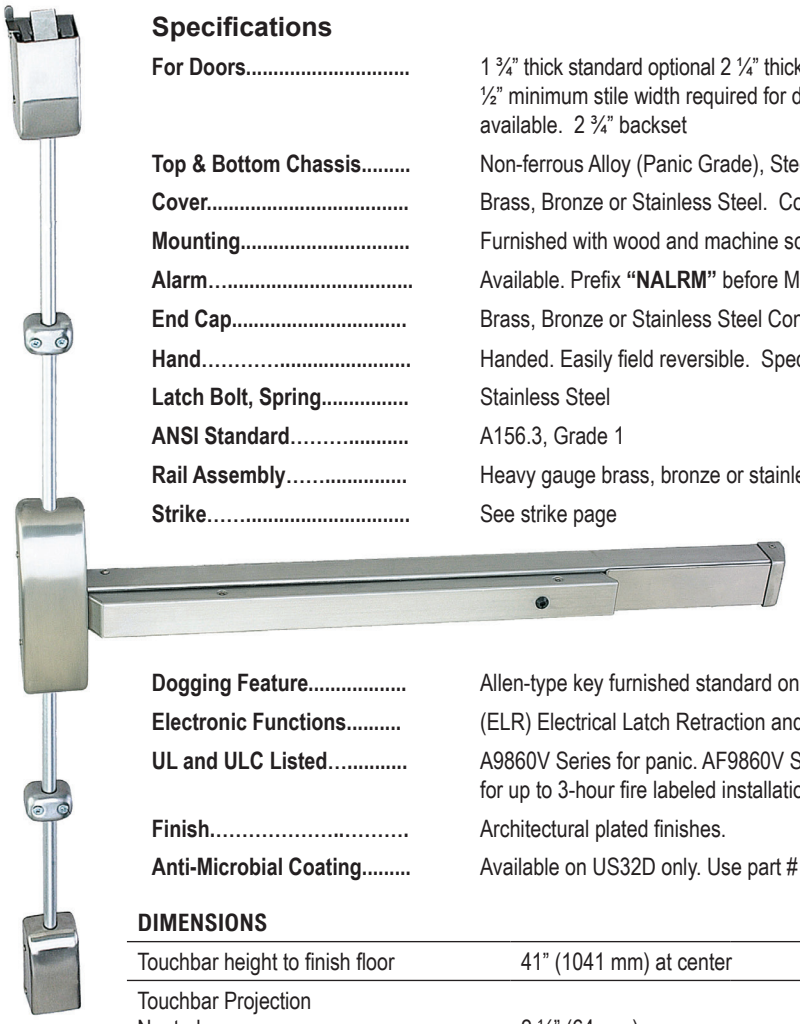
Touchbar height to finished floor	41" (1041 mm) at center
Touchbar Projection	
Neutral	2 ½" (64 mm)
Depressed	1 ¾" (45 mm)
Center case	8 ½" x 2 ½" x 2" (216 mm x 64 mm x 51 mm)

MODEL	ACTUAL SIZE	MAX CUT DOWN	DOOR SIZE
A9800EO24, AF9800EO24,	20"	2"	22" to 24" door width
A9800EO32, AF9800EO32	28"	6"	26" to 32" door width
A9800EO36, AF9800EO36	32"	6"	30" to 36" door width
A9820EO48, AF9820EO48	44"	12"	36" to 48" door width

A9860V & AF9860V ADA Series

GRADE 1, Vertical Rod Type Exit Device

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | ADA COMPLIANT | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997



Specifications

For Doors..... 1 ¾" thick standard optional 2 ¼" thick. 3 ¾" minimum stile width required for single door application. 3 ½" minimum stile width required for double door application. Lever, thumbpiece and escutcheon trims available. 2 ¾" backset

Top & Bottom Chassis..... Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)

Cover..... Brass, Bronze or Stainless Steel. Covers stock hollow metal doors with161 cutout.

Mounting..... Furnished with wood and machine screws. Thru-bolts are standard packaging on fire rated devices

Alarm..... Available. Prefix **"NALRM"** before MODEL #

End Cap..... Brass, Bronze or Stainless Steel Construction

Hand..... Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience

Latch Bolt, Spring..... Stainless Steel

ANSI Standard..... A156.3, Grade 1

Rail Assembly..... Heavy gauge brass, bronze or stainless steel

Strike..... See strike page

Americans with Disability Act (ADA) compliant 5 lbs opening force on ADA Series only

Refer to the Price List for Stock Sizes and Finishes

Dogging Feature..... Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available

Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

UL and ULC Listed..... A9860V Series for panic. AF9860V Series for fire exit hardware for all types of **8' x 10' double doors** for up to 3-hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes

Finish..... Architectural plated finishes.

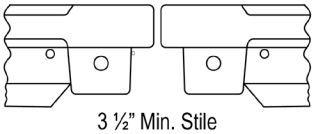
Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**

DIMENSIONS

Touchbar height to finish floor	41" (1041 mm) at center
Touchbar Projection Neutral Depressed	 2 ½" (64 mm) 1 ¾" (45 mm)
Panic grade top & bottom latch case	3 15/16" x 2 ⅛" x 1 ⅜" (100 mm x 54 mm x 35 mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100 mm x 68 mm x 52 mm)
Fire grade bottom latch case	3 15/16" x 2 ⅛" x 1 ⅜" (100 mm x 54 mm x 35 mm)
Top and bottom rod length for 36" x 84"	Top rod 37 ½" (953 mm), bottom rod 35 ⅝" (905 mm)
Top and bottom rod length for 48" x 96"	Top rod 49 ⅝" (1260 mm), bottom rod 35 ⅝" (905 mm)
Vertical rods	½" (13 mm) Round tubing

Minimum Stile Requirements

Double Door with Two Vertical Rod Type Exit Devices



3 ½" Min. Stile

MODEL	ACTUAL SIZE	MAX CUT DOWN	DOOR SIZE
A9810V2484, AF9810V2484	20"	2"	22" to 24" door width
A9860V3684, AF9860V3684, A9890V3696, AF9890V3696, A9850V36120, AF9850V36120, A9870V3284, AF9870V3284	32"	6"	30" to 36" door width
A9880V4896, AF9880V4896, A9840V48120, AF9840V48120	44"	12"	36" to 48" door width

ALBR9860V & ALBRF9860V ADA Series

GRADE 1, Vertical Rod Exit Device Less Bottom Rod

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | ADA COMPLIANT | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997

Specifications

For Doors..... 1 ¾" thick standard optional 2 ¼" thick. 3 ¾" minimum stile width required for single door application. 3 ½" minimum stile width required for double door application. Lever, thumbpiece and escutcheon trims available. 2 ¾" backset

Top Chassis..... Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)

Cover..... Brass, Bronze or Stainless Steel. Covers stock hollow metal doors with161 cutout.

Mounting..... Furnished with wood and machine screws. **Thru-bolts are standard packaging on fire rated devices**

Alarm..... Available. Prefix **"NALRM"** before MODEL #

End Cap..... Brass, Bronze or Stainless Steel Construction

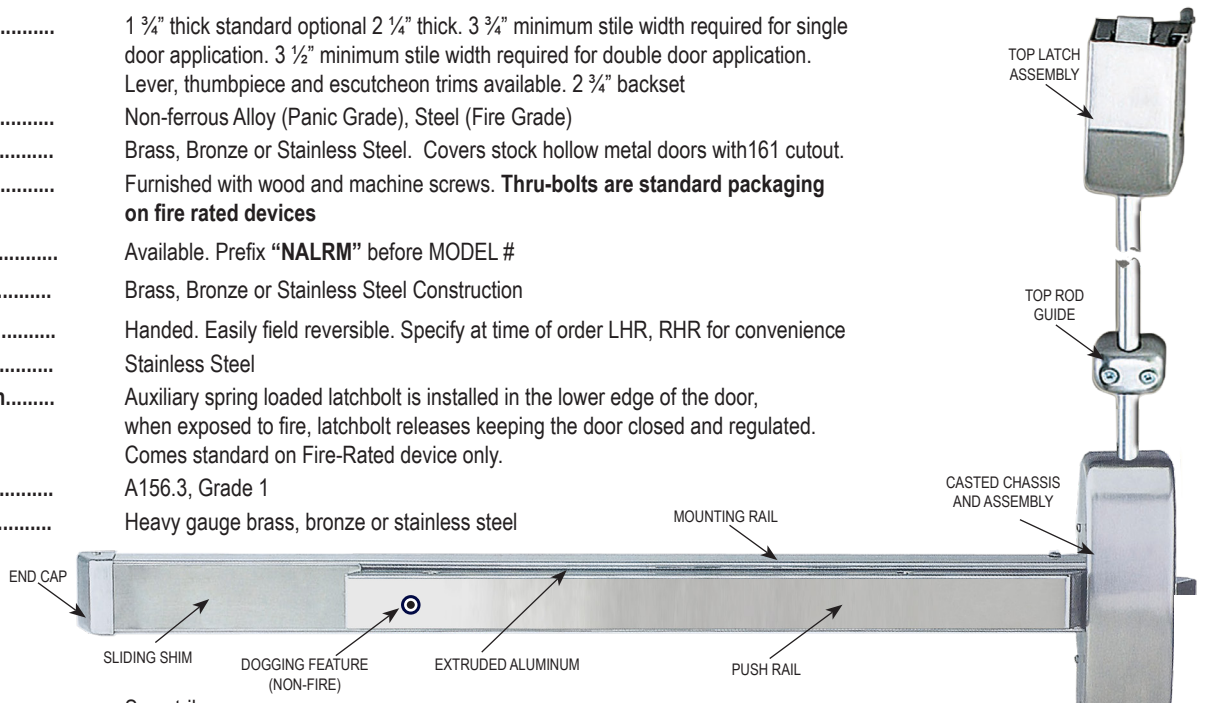
Hand..... Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience

Latch Bolt, Spring..... Stainless Steel

Auxiliary Spring Latch..... Auxiliary spring loaded latchbolt is installed in the lower edge of the door, when exposed to fire, latchbolt releases keeping the door closed and regulated. Comes standard on Fire-Rated device only.

ANSI Standard..... A156.3, Grade 1

Rail Assembly..... Heavy gauge brass, bronze or stainless steel



Strike..... See strike page

Dogging Feature..... Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available

Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

UL and ULC Listed..... A9860V Series for panic. AF9860V Series for fire exit hardware for all types of 8' x 8' double doors for up to 3-hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.

Finish..... Architectural plated finishes.

Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**

DIMENSIONS

Touchbar height to finish floor	41" (1041 mm) at center
Touchbar Projection Neutral Depressed	 2 ½" (64 mm) 1 ¾" (45 mm)
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 35 mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100 mm x 68 mm x 52 mm)
Fire grade bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 35 mm)
Top and bottom rod length for 36" x 84"	Top rod 37 ½" (953 mm)
Top and bottom rod length for 48" x 96"	Top rod 49 5/8" (1260 mm)
Vertical rods	½" (13 mm) Round tubing

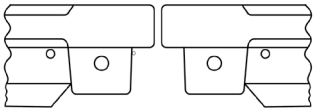
MODEL	ACTUAL SIZE	MAX CUT DOWN	DOOR SIZE
ALBR9810V2484, **ALBR**F9810V2484	20"	2"	22" to 24" door width
ALBR9870V3284, **ALBR**F9870V3284	28"	6"	26" to 32" door width
ALBR9860V3684, **ALBR**F9860V3684, **ALBR**9890V3696, **ALBR**F9890V3696, **ALBR**9850V36120	32"	6"	30" to 36" door width
ALBR9880V4896, **ALBR**F9880V4896, **ALBR**9840V48120	44"	12"	36" to 48" door width

Americans with Disability Act (ADA) compliant 5 lbs opening force on ADA Series only

Refer to the Price List for Stock Sizes and Finishes

Minimum Stile Requirements

Double Door with Two Vertical Rod Type Exit Devices



3 ½" Min. Stile

Alarm Exit Hardware

GRADE 1 Rim Type Exit Device



3 HOUR FIRE RATED
UL10C, UBC7-2-1997

Rim Type Exit Devices

NALRMA9800EO36	Alarm Rim Type 36” Door (Panic Grade)
NALRMA9820EO48	Alarm Rim Type 48” Door (Panic Grade)
FNALRMA980036	Alarm Rim Type 36” Door (Fire Grade)
FNALRMA982048	Alarm Rim Type 48” Door (Fire Grade)

Vertical Rod Type Exit Devices

Prefix **“NALRM”** before MODEL #

Features

- 1, 3, 5-minute and continuous alarm type settings available 3 ½”
- ON and OFF power switch
- Alarm sound frequency is 120 db
- Alarm unit has an internal horn. When the push rail is depressed, the horn sounds to provide an audible means of signaling that the door has been opened and breached
- The key switch to turn alarm off is a standard 1 ¼” cylinder with “C” keyway. The alarm operates on one standard 9-volt transistor battery. When battery is weak the horn will emit an intermittent signal.
- Alarmed units are supplied with a micro switch, which monitors the push rail and the latch bolt for foolproof security on rim devices
- Alarm unit has a signal OC output that can be linked to external alarm control systems
- Easy removal of the alarm unit without the need to dismount the exit device for battery maintenance
- Unit includes “**EMERGENCY EXIT ONLY ALARM WILL SOUND**” decal for application on door or unit

Finishes

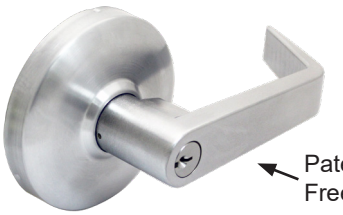
Cal-Royal	Description	BHMA	US Finish	Material
P	Prime Coat	600	USP	Steel
3	Polished Brass, Clear Powder Coat	605	US3	Brass
4	Satin Brass, Clear Powder Coat	606	US4	Brass
9	Polished Bright Bronze	611	US9	Bronze
10	Satin Bronze, Clear Powder Coat	612	US10	Bronze
10B	Oil Rubbed Bronze	613	US10B	Bronze
26	Polished Bright Chrome	625	US26	Brass
26D	Satin Chrome	626	US26D	Brass
32	Polished Bright Stainless	628	US32	Stainless Steel
32D	Satin Stainless	630	US32D	Stainless Steel

Trim Selection

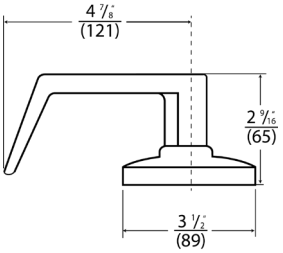
CLUTCH CYLINDRICAL LEVER

Non-Handed Grade 1 (Clutch Style)
Cylindrical body hardened steel heavy duty tailpiece. For 1 ¾" and 2 ¼" doors.
Prefix **"THI"** before Part # for 2 ¼" door thickness.
Available for fire and non-fire rated rim and vertical rod exit devices.
Rose diameter 3 ½", lever length 4 ¾". Fits and covers 161 cutout.
Finishes: US26D, US26, US3, US4, US10B, US10BE, US1

GN DESIGN ONLY: ENT00L, ICENT00L, STR05L, ICSTR05L, PAS30L, DUM40L IN US32D FINISH, ALL STAINLESS STEEL EXTERIOR. INCLUDES GRADE 304SS LEVER AND ROSE



GN DESIGN



ENT00L or **ICENT00L or** **ICSCENT00L4** **SARICENT00L** (Sargent) **RUSICENT00L** (Corbin / Russwin) **YALICENT00L** (Yale)	**ENTRANCE** Key locks and unlocks lever. Operates as CLASSROOM FUNCTION. ANSI Function (08)
8000K	Ball Knob Keylock
STR05L or **ICSTR05L or** **ICSCSTR05L4** **SARICSTR05L** (Sargent) **RUSICSTR05L** (Corbin / Russwin) **YALICSTR05L** (Yale)	**STOREROOM** Key operates lever, otherwise always locked. ANSI Function (09)
PAS30L	**PASSAGE** Trim always operable and free. ANSI Function (14)
DUM40L	**DUMMY** Dummy trim. One sided ANSI Function (02)

KEYWAY: 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

(IC) INTERCHANGEABLE CORE: Interchangeable Core locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW.**

(ICSC) INTERCHANGEABLE CORE: Indicates function available with **SCHLAGE, CORBIN/RUSSWIN, SARGENT and YALE Full Size Format** Interchangeable Core

	KEYWAY	+ DESIGN	+ FUNCTION	+ FINISH
BEST, FALCON, & ARROW -	IC	AT	ENT00L	
SCHLAGE -	ICSC	SPA	STR05L	
CORBIN/RUSSWIN -	RUSIC	TUB*	PAS30L	
SARGENT -	SARIC	AUG	DUM40L	
YALE -	YALIC	DAN		
		LON		
		TAC		

HOW TO ORDER IN LFIC

Example: ICSCENT00L4 US26D
in "SPA" design is
ICSCSPAENT00L4 US26D

Note: Yale LFIC is only available in GN, AT, SPA lever designs | TUB* is only available in SFIC.

Other Lever Trim Designs

Available in SFIC & LFIC



AT

Available in SFIC & LFIC



SPA

Available in SFIC



TUB

Available in SFIC & LFIC **except YALE LFIC*



AUG

Available in SFIC & LFIC **except YALE LFIC*



DAN

Available in SFIC & LFIC **except YALE LFIC*



LON

Available in SFIC & LFIC **except YALE LFIC*



TAC



8000K

Anti-Microbial Coating available in US26D or US32D Only. Use part # "**ANTB-TRIM**" when ordering.

Trim Selection

HEAVY DUTY STAINLESS STEEL CLUTCH LEVER ESCUTCHEON (High Frequency Abusive Situation such as Schools, Hospitals, Industrial / Institutional)

CONSTRUCTION

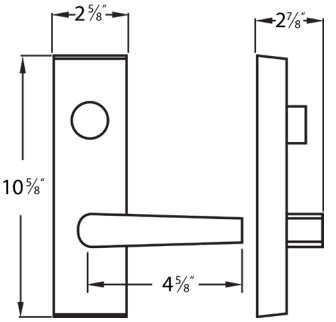
- Clutch mechanism
- Double heavy duty spring support to prevent sagging and enhance operation
- Grade 1, thru-bolted design. Non-handed design. Easily field reversible
- All Stainless Steel heavy duty tailpiece.
  Available for fire and non-fire rated rim and vertical rod exit devices
- Standard 6-Pin Schlage "C" Mortise Cylinder included

DOOR THICKNESS

Standard 1 ¾" to 2".
For 2" or 2 ½" thick door use additional Part # TAIL9

ESCUTCHEON DIMENSIONS

2 5/8" width X 10 5/8" length. Lever length: 4 5/8".
Fits and covers 2 1/8" 161 cutout



HDESC-00 or
ICHDESC-00
ICSCHDESC-00
HDTSESC-00
ICHDTSESC-00
ICSCHDTSESC-00

ENTRANCE
Clutch Entrance, key locks or unlocks escutcheon trim.
ANSI Function (08)
Operates as classroom function

HDESC-05 or
ICHDESC-05
ICSCHDESC-05
HDTSESC-05
ICHDTSESC-05
ICSCHDTSESC-05

STOREROOM
Clutch Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked. ANSI Function (09)

HDESC-30
HDTSESC-30

PASSAGE
Trim always operable and free
ANSI Function (14)

HDESC-40
HDTSESC-40

DUMMY
Dummy Escutcheon trim
ANSI Function (02)

FOR ELECTRIFIED TRIM OPTIONS, SEE PAGE 37

TO ORDER RL lever design, add "**RL**" after "**HD**" when ordering.
e.g. HD**RL**ESC-00 for HDESC-00 with RL design.

KEYWAY: 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

(IC) INTERCHANGEABLE CORE: Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

(ICSC) INTERCHANGEABLE CORE: Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

Lever Trim Designs



HDESC



HDTSESC



HDRLESC

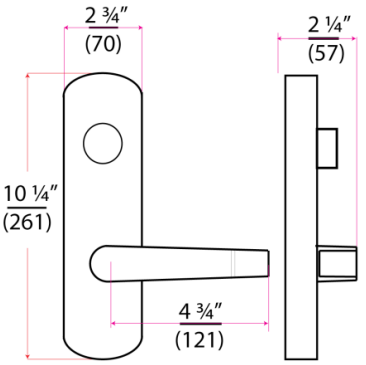
Anti-Microbial Coating available in US32D Only.
Use part # "**ANTB-TRIM**" when ordering.

Trim Selection

RIGID LEVER ESCUTCHEON

CONSTRUCTION

- Rigid, non clutch mechanism.
- Double heavy duty spring support to prevent sagging and enhance operation.
- Grade 1, thru-bolted design. Non-handed design. Easily field reversible.
- Hardened steel heavy duty tailpiece. Available for fire and non fire rated rim and vertical rod exit devices.
- Standard 6-Pin Schlage “C” Mortise Cylinder included



DOOR THICKNESS

Standard 1 ¾”. For 2 ¼” thick door use additional Part # TAIL3

ESCUTCHEON DIMENSIONS

2 ¾” width X 10 ¼” length. Lever length: 4 ¾”.
Fits and covers 2 ⅛” 161 cutout.

NESC9800 or	**ENTRANCE**
● **ICNESC9800 or**	Rigid Entrance, key locks or unlocks escutcheon trim
● **ICSCNESC9800**	ANSI Function (08) Operates as classroom function
NESC9805 or	**STOREROOM**
● **ICNESC9805 or**	Rigid Storeroom, key unlocks lever, lever retracts
● **ICSCNESC9805**	latch bolt, otherwise always locked ANSI Function (09)
NESC9830	**PASSAGE** Trim always operable and free ANSI Function (14)
NESC9840	**DUMMY** Dummy Escutcheon trim ANSI Function (02)

TO ORDER other lever design insert “**AT**” or “**RL**” before “**ESC**”:
e.g. **AT**ESC9800 for ESC9800 with AT design or **RL**ESC9800 for ESC9800 with RL design

KEYWAY: 6-Pin solid brass “C” keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

FOR ELECTRIFIED TRIM OPTIONS SEE PAGE 37

● **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW.

● **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

Lever Trim Designs



NESC



ATESC



RLESC



TUBESC

Anti-Microbial Coating available in US26D or US32D Only. Use part # “**ANTB-TRIM**” when ordering.

Trim Selection

PULL DESIGN

9800 NL
IC9800NL
ICSC9800NL

FOR RIM DEVICES ONLY
Outside by pull and key.
Key retracts latch bolt.
ANSI function (03)
Covers 161 cutout

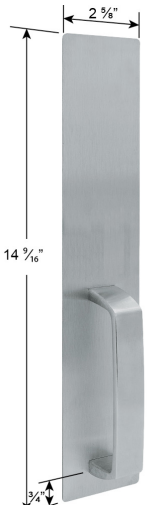
KEYWAY
Standard 6-Pin solid brass “C” keyway Rim Cylinder included.

FINISHES
Architectural plated finishes.



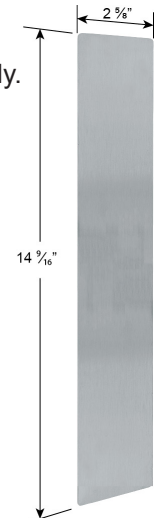
9800 DTP

Outside by pull only.
Pull when dogged.
ANSI function (02)
Covers 161 cutout.



9800 EOP

Outside by plate only.
ANSI function (01)
Covers 161 cutout



THUMBPIECE TRIM

(OPERATES ON RIM & VERTICAL ROD DEVICES)

98TP-00 or
IC98TP00
ICSC98TP00
ENTRANCE
Key locks or unlocks thumbpiece.
(Operates as classroom function)
ANSI Function (05)

98TP-05 or
IC98TP05
ICSC98TP05
STOREROOM
Key unlocks thumbpiece, thumbpiece retracts latch bolt, otherwise always locked.
ANSI Function (06)

98TP-30
PASSAGE
Trim always operable and free.
ANSI Function (15)

98TP-40
DUMMY
Dummy trim. **Includes blank Mortise dummy cylinder.** One sided.
ANSI Function (02)

KEYED



DUMMY



KEYWAY: 6-Pin solid brass “C” keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

(IC) INTERCHANGEABLE CORE
Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW.

(ICSC) INTERCHANGEABLE CORE: Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

FINISHES
Architectural plated finishes.

Electrified Lever Trim

Cal-Royal's electrified lever trim provides remote locking and unlocking capabilities using industry safety standards. The solenoid can be energized from a distant controller, thus allowing access control of the opening.

The control of stairwells in high-rise buildings is a common application for this trim, where electric pullback of the exit device's latch bolt is cost prohibitive or not required. This is especially practical in applications where fire/life safety codes require a "fail-safe" condition which is not an option with electrified latch pullback devices. Because the current draw is quite low there is no need for a more expensive power supply to provide the surge current.

Features
- Continuous duty solenoids used to insure trouble-free operation
- Internally mounted solenoid to ease installation (no special door prep required)
- No hassle 3-year warranty

Options
- Available Fail Safe (Electrically Locked) or Fail Secure (Electrically Unlocked)
- Voltage options – 12V or 24V (AC / DC)
- Request to Enter Switch (REE) available
- CRU2 – Current Reduction Unit to improve solenoid life in "continuously on" applications

Specifications
Solenoid..... Continuous Duty

Operating Voltage.... 12 or 24V AC / DC ± 10%
(must specify 12 or 24 volts when ordering)

Amperage.....250mA @ 12V or 150mA @ 24V

Coil Resistance.....12V = 49Ω or 24V = 159Ω

To order, Specify:

OPTIONS: FAIL SAFE (**FS**)
FAIL SECURE (**FSE**)

ITEM#	DESCRIPTION
FS12	FS12 FAIL-SAFE OPTION 12V AC/DC
FS24	FS24 FAIL-SAFE OPTION 24V AC/DC
FSE12	FSE12 FAIL-SECURE OPTION 12V AC/DC
FSE24	FSE24 FAIL-SECURE OPTION 24V AC/DC

Lever Trim Designs


NESC


ATESC


RLESC


TUBESC


HDESC


HDTSESC


HDRLESC

Anti-Microbial Coating available in US26D or US32D Only. Use part # "**ANTB-TRIM**" when ordering.

TO ORDER other design add "**NESC98**", "**ATESC98**", "**RLESC98**", "**TUBESC98**"
e.g. FSE24**ATESC98** for ESC98 in AT design or FSE24**RLESC98** for ESC98 in RL design

TO ORDER heavy duty design add **HD, TS, or RL** to Item #
e.g. FS12**HD** or FS12**TS** or FS12**RL**

(ELR) Electric Latch Retraction

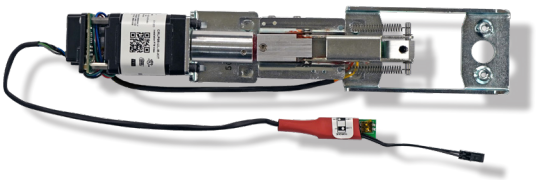
Our motor driven electrified latch pullback exit device allows for remote keyless access control in high occupancy / high traffic conditions where exit devices are required. Common applications include conditions such as hospitals, airports, schools, churches and they are commonly specified in applications that require automatic door openers. The device may be continuously energized allowing for a push / pull condition if desired.

Features:

- Available on 9800 Series, including rim, vertical rod, concealed vertical rod, mortise exit device, fire and non fire-rated devices
- MM4 Smart Module: On board diagnostics with audible feedback for adjustment and power issues
- "PTS" (Push to Set Technology): 5 second electronic adjustment for easy post installation adjustment
- Electric dogging rated for continuous duty - Auto retraction if dogged push pad is pulled from position
- Low Current Draw - Field switchable to "High Torque" mode
- Up to 300' wire run with (2) 18ga wire - Long wire runs provides installer with convenience of placing the locking device power supply in a centralized location; i.e. the same closet as the access panel
- 8' cable with Quick Connect for MM4 module to easily connect to power supply lead
- 3-year "No Hassle" warranty

Specifications:

- Voltage – 24 to 28V DC
- System protection – unit shutdown when voltage exceeds 28V DC
- Average In-rush Current – 900mA; Average Hold Current - 215mA
- PTS adjustment – approx. ¼"
- Wire run: 300' with 18ga wire



INSTALLED ON THE EXIT DEVICE: USE FLR2298 ADD

FOR FIELD INSTALLATION USE FLR2298 KIT

To Order:

- **Must Specify: Exit Device item #** and **FLR2298 ADD** as two separate line items. For Example: A9800EO36 US32D with ELR option, order "**A9800EO36 US32D", and "FLR2298 ADD"** as two line items.
- ***Use FLR2298 KIT if ordered separately.***
- **Optional Switch** (RX or LX) is also available and should be added as a **3rd line item** as needed.

Note: When using electrified hinge, you must use prefix ELELRn + hinge item code, where "n" is equal to number of wires. For example: ELELR4 + BB31.

MUST USE CRP POWER SUPPLIES TO HONOR WARRANTY (see pages 97-98)

Signal Switch RX and LX

RX (request to exit) signal switch is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the touch bar.

LX (latch bolt monitoring) signal switch monitors both egress and access of an opening. When the latch bolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the latch bolt position.

LX and **RX** switches can be combined.

LX, RX switches can be used in combination with ELR (electric latch retraction) option.

Specifications

RX or **LX**.....Switch rated 0.5 amps @ 24V AC / DC resistive
Low current **RX** or **LX**.Switch rated 0.5 amps @ 24V AC / DC resistive

for Factory Installed. To Order, Specify:

RX22/98.....Request to Exit switch for field installation
LX9800.....Latch bolt Monitoring switch for field installation
LXRX9800.....Latch bolt Monitoring / Request to Exit Combination

Heavy Duty Digital Exit Trims

MECHANICAL CRCODE101

Features

- Heavy Duty
- Designed for 6600, 7700 and 9800 Series
- Grade 1 Rim and Surface Vertical Rod Exit Devices
- Single Code (up to 8000 code combinations)
- Weather-Resistant finish
- Code can be changed anytime without dismounting
- Full size, Non-Handed lever handle
- Easy Installation
- Reversible Handing

ELECTRONIC CRCODE007

Features

- Dual mode for code free entry either mechanically by key or electronically thru the keypad
- Designed for 6600, 7700 and 9800 Series Rim Exit Devices
- Can store up to 90 different numeric user codes in 4, 5 or 6 digits
- Settings remain in memory when batteries are removed
- Audible alarm sounds after 3 incorrect attempts
- Connections available for remote release switch and automatic lock activation when linked to Fire alarm system
- Can be used as STOREROOM or CLASSROOM function
- Factory default set as STOREROOM function
- Fast and easy programming via master code

CR4000 TRILOGY® KEYLESS EXIT TRIM

Features

- Clutch mechanism insures long life and durability
- Fingertip and / or Windows programmable
- 2000 User Codes: Master, manager, supervisor and users
- Real Time Clock for up to 40,000 Event Time / Date-Stamped Audit Trail
- Up to 500 Lock / Unlock Schedules (with Time Zone Support)
- Rugged 12-Button Metal Keypad
- Non-Handed; Fully Field Reversible
- Adaptable to most major manufacturers of standard RIM and IC RIM Cylinders
- Battery operated; uses 5 AA batteries
- Optional Interchangeable Core available with Best, Falcon & Arrow

MECHANICAL CRCODE204

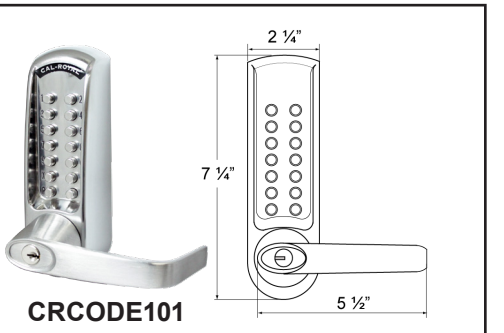
Features

- Breakaway Lever Design
- Easy On-Door Code Change
- Weather Resistant
- Code-Free Option (Passage)
- Non-Handed
- 1 - 12 digit Length Code
- Thousands of Possible Code Combinations
- Single Code User
- Applications: Offices, Schools, Hospitals, Apartments, Hotels / Motels, Residential, Commerical and Public Buildings
- Door Thickness: 1 ¾" - 2"

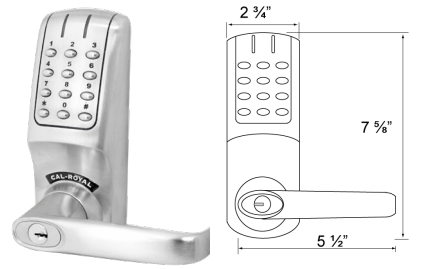
KABA® - Cal-Royal Combination

Cal-Royal's Exit hardware devices combined with **Kaba InSync CP** provide a variety of alternatives when addressing community access control. Recommended for applications such as controlling building entry openings, common area rooms and doors with exit devices. **InSync CP** are available as stand-alone battery operated door locks designed to work in conjunction with ***Cal-Royal's Exit Hardware Devices.***

KABA InSync CP is not sold through CAL-ROYAL. For inquiries and information on InSync line of products please visit ***www.kabamultihousing.com***



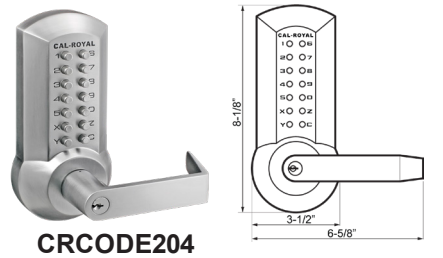
CRCODE101



CRCODE007



CR4000



CRCODE204



MCVR9800 & FMCVR9800 Series

Optional Less Bottom Rod (LBR)

GRADE 1, Concealed Vertical Rod Exit Device for Metal Doors

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997

Specifications

LBR (Optional)..... No Bottom Strike. Free access for wheel chairs, stretchers and carts which eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts.

For Doors..... Metal. 1 ¾" (44.5 mm) minimum thickness
4 ½" (114 mm) minimum stile width

Top Chassis..... Steel

Chassis Cover..... Stainless Steel or Non-ferrous plated material

Mounting..... Furnished standard with machine screws

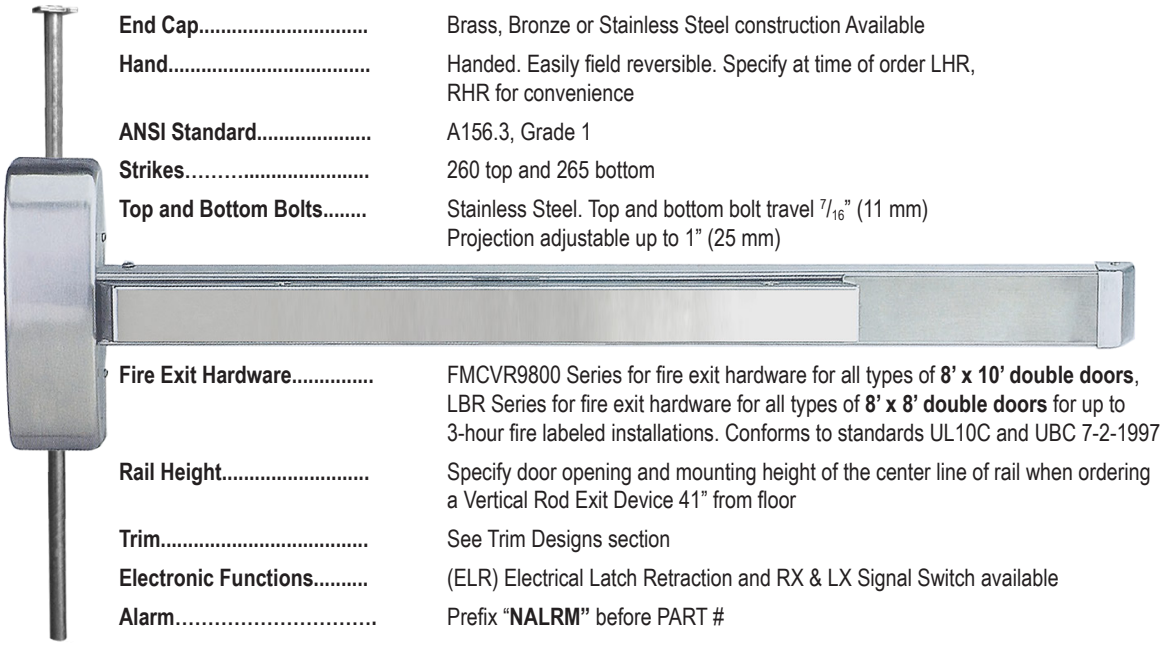
End Cap..... Brass, Bronze or Stainless Steel construction Available

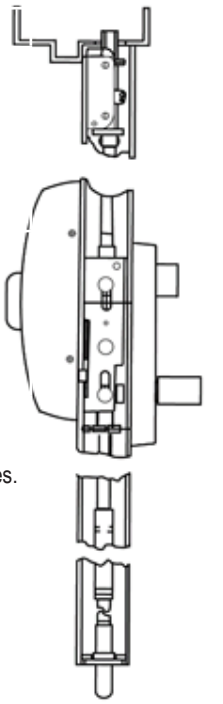
Hand..... Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience

ANSI Standard..... A156.3, Grade 1

Strikes..... 260 top and 265 bottom

Top and Bottom Bolts..... Stainless Steel. Top and bottom bolt travel $^{7}/_{16}$" (11 mm) Projection adjustable up to 1" (25 mm)





Fire Exit Hardware..... FMCVR9800 Series for fire exit hardware for all types of **8' x 10' double doors**, LBR Series for fire exit hardware for all types of **8' x 8' double doors** for up to 3-hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.

Rail Height..... Specify door opening and mounting height of the center line of rail when ordering a Vertical Rod Exit Device 41" from floor

Trim..... See Trim Designs section

Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

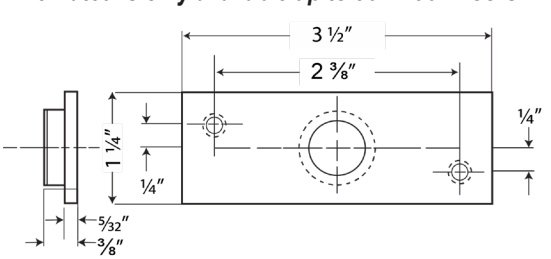
Alarm..... Prefix "**NALRM**" before PART #

Dogging Feature..... Cylinder dogging available for non-rated applications

Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**

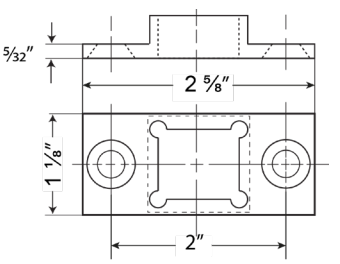
MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
M98CVR3684, FM98CVR3684, M98CVR3696, FM98CVR3696, M98CVR36120, FM98CVR36120	32"	6"	30" to 36" door width
M98CVR4896, FM98CVR4896, M98CVR48120, FM98CVR48120	44"	12"	36" to 48" door width

LBR Fire Rated is only available up to 36" x 96" Doors.



260 TOP STRIKE

- For applications metal frames
- Stainless Steel



265 BOTTOM STRIKE

- Furnished with expansion shields
- Mortised into floor
- Stainless Steel

WCVR9800 & FWCVR9800 Series

Optional Less Bottom Rod (LBR)

GRADE 1, Concealed Vertical Rod Exit Device for Wood Doors

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997

Specifications

LBR (Optional)..... No Bottom Strike. Free access for wheel chairs, stretchers and carts which eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts.

For Doors..... Wood. 1 ¾" (44.5 mm) minimum thickness
4 ½" (114 mm) minimum stile width

Top Chassis..... Steel

Chassis Cover..... Stainless Steel or Non-ferrous plated material

Mounting..... Furnished standard with machine screws

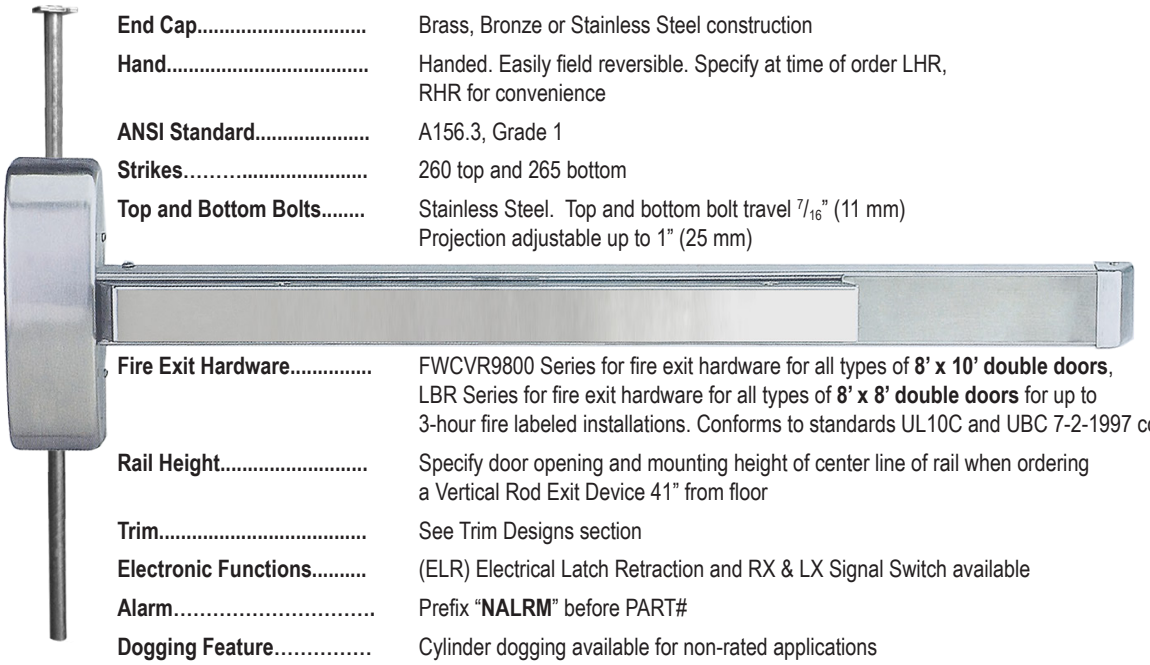
End Cap..... Brass, Bronze or Stainless Steel construction

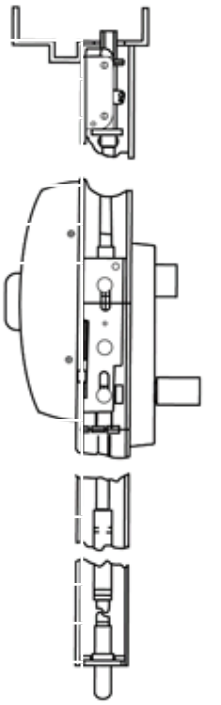
Hand..... Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience

ANSI Standard..... A156.3, Grade 1

Strikes..... 260 top and 265 bottom

Top and Bottom Bolts..... Stainless Steel. Top and bottom bolt travel $^{7}/_{16}$" (11 mm) Projection adjustable up to 1" (25 mm)





Fire Exit Hardware..... FWCVR9800 Series for fire exit hardware for all types of **8' x 10' double doors**, LBR Series for fire exit hardware for all types of **8' x 8' double doors** for up to 3-hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.

Rail Height..... Specify door opening and mounting height of center line of rail when ordering a Vertical Rod Exit Device 41" from floor

Trim..... See Trim Designs section

Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

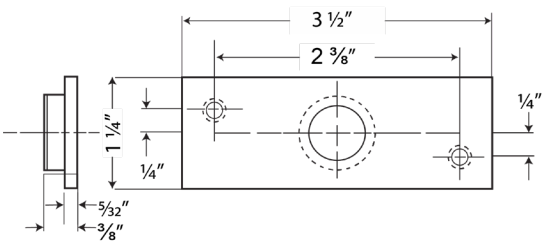
Alarm..... Prefix "**NALRM**" before PART#

Dogging Feature..... Cylinder dogging available for non-rated applications

Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**

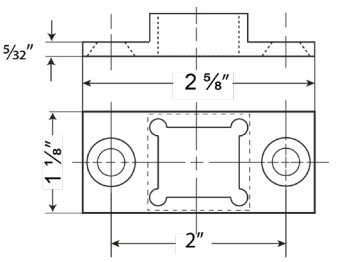
MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
W98CVR3684, FW98CVR3684, W98CVR3696, FW98CVR3696, W98CVR36120, FW98CVR36120	32"	6"	30" to 36" door width
W98CVR4896, FW98CVR4896, W98CVR48120, FW98CVR48120	44"	12"	36" to 48" door width

LBR Fire Rated is only available up to 36" x 96" Doors.



260 TOP STRIKE

- For applications metal frames
- Stainless Steel



265 BOTTOM STRIKE

- Furnished with expansion shields
- Mortised into floor
- Stainless Steel

Trim Selection

ESCUTCHEON LEVER DESIGN

CONSTRUCTION

- Free-wheeling clutch mechanism
- Grade 1, thru-bolted design
- Non-handed design. Easily field reversible.

FINISHES

Architectural plated finishes

DOOR THICKNESS

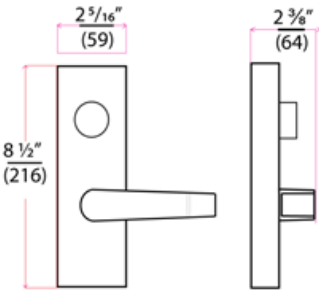
Standard 1 ¾"

ESCUTCHEON DIMENSIONS

2 5/16" width X 8 ½" length. Lever length: 4 ¾".
Fits and covers 2 ⅛" 161 cutout



CVRESC



CVRESC00 or **ICCVRESC00 or** **ICSCCVRESC00**	**ENTRANCE** Clutch Entrance, key locks or unlocks escutcheon trim ANSI FUNCTION (08) Operates as classroom function
CVRESC05 or **ICCVRESC05 or** **ICSCCVRESC05**	**STOREROOM** Clutch Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked, ANSI FUNCTION (09)
CVRESC30	**PASSAGE** Trim always operable and free, ANSI FUNCTION (14)
CVRESC40	**DUMMY** Dummy Escutcheon trim, ANSI FUNCTION (02)

KEYWAY: 6-Pin solid brass "C" keyway Mortise Cylinder standard.
Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

Lever Trim Designs



RLCVRESC



ATCVRESC



TUBCVRESC

Anti-Microbial Coating available in US26D Only. Use part # "**ANTB-TRIM**" when ordering.

- **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW
- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

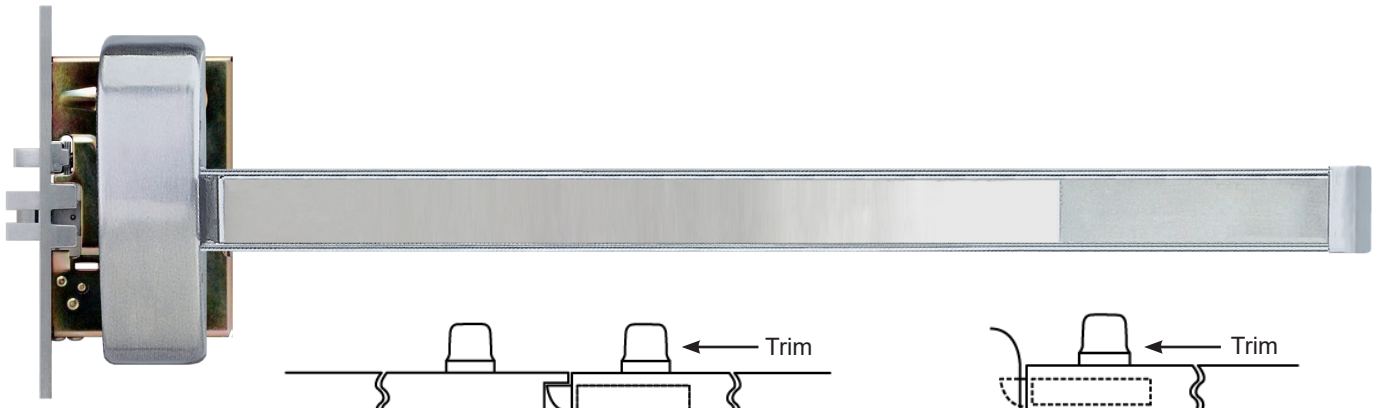
**FOR ELECTRIFICATION OPTION:
SPECIFY ITEM# UPON ORDERING
FOR ENTRANCE, STOREROOM, AND
PASSAGE ESCUTCHEON LEVER TRIMS**

ITEM#	DESCRIPTION
FS12CVR	FAIL-SAFE (**FS**) OPTION 12V AC / DC
FS24CVR	FAIL-SAFE (**FS**) OPTION 24V AC / DC
FSE12CVR	FAIL-SECURE (**FSE**) OPTION 12V AC / DC
FSE24CVR	FAIL-SECURE (**FSE**) OPTION 24V AC / DC

MR9800 & FMR9800 Series

GRADE 1, Mortise Lock Exit Device

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997



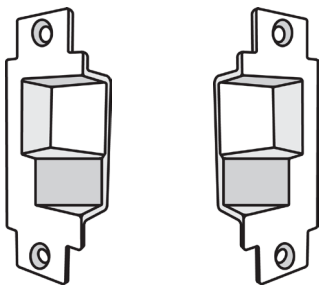
Pair of Doors

Single Doors

Specifications

For Doors	Wood / Metal 1 ¾" (44.5 mm) minimum thickness 4 ½" (114 mm) minimum stile width
Chassis	Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
Chassis Cover	Non-ferrous plated material
Mounting	Furnished standard with wood and machine screws
End Cap	Brass, Bronze or Stainless Steel construction
Handing	Handed. Non-Reversible. Specify RHR or LHR
ANSI Standard	A156.3, Grade 1
Strikes	Standard ANSI strike
Fire Exit Hardware	FMR9800 Series for fire exit hardware for all types of 8' x 8' double doors for up to 3-hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
Mortise Lock	Grade (1) for 1 ¾" (44.5 mm) thick doors. Handed (Non-reversible). Specify RHR or LHR. Fits door prepared for ANSI Standard A115.1
Trim	See Trim Designs section
Electronic Functions	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available
Alarm	Prefix "**NALRM**" before PART #
Dogging Feature	Cylinder dogging available for non-fire rated applications
Anti-Microbial Coating	Available on US32D only. Use part # **ANTB-EXIT**

OPTIONAL OPEN BACK STRIKE



OBSTRKLH OBSTRKRH

MODEL SIZE	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
MR9800EO36, FMR9800EO36 MR9805EO36, FMR9805EO36	32"	6"	30" to 36" door width
MR9800EO48, FMR9800EO48 MR9805EO48, FMR9805EO48	44"	12"	36" to 48" door width

MR9800 & FMR9800 Series

GRADE 1 Mortise Lock Exit Device

Trim Selection

ESCUTCHEON LEVER DESIGN



FINISHES
Architectural plated finishes

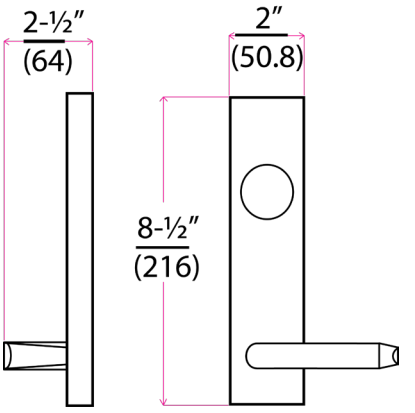
DOOR THICKNESS
Standard 1 ¾”

HANDING
Non-Handed Trim

ESCUTCHEON DIMENSIONS
2” width X 8 ½” length.
Lever length: 4 ¾”.

IMPORTANT: MR7700 and FMR7700 Mortise Lock case comes standard with exit device. (TRIMS SOLD SEPARATELY)

MRESC-00 or MRESC00TS or ICMRESC-00 or ICSCMRESC-00 ICMRESC-00TS	**ENTRANCE** Key locks or unlocks lever Operates as classroom function ANSI FUNCTION (08)
MRESC-05 or MRESC05TS or ICMRESC-05 or ICSCMRESC-05 or ICMRESC-05TS	**STOREROOM** Key retracts latch bolt, otherwise always locked ANSI FUNCTION (09) *MUST USE MR7705EO36/48 Mortise Rim Exit
MRESC-30 MRESC30TS	**PASSAGE** Trim always operable and free ANSI FUNCTION (14) ***MUST USE MR7705EO36/48 Mortise Rim Exit**



Anti-Microbial Coating available in US26D Only.
Use part # “**ANTB-TRIM**” when ordering.

KEYWAY: 6-Pin solid brass “C” keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

- **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW
- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

MORTISE LOCK CASE ELECTRIFICATION OPTION: SPECIFY ITEM# UPON ORDERING

(MORTISE LOCK CASE COMES STANDARD WITH EXIT DEVICE)

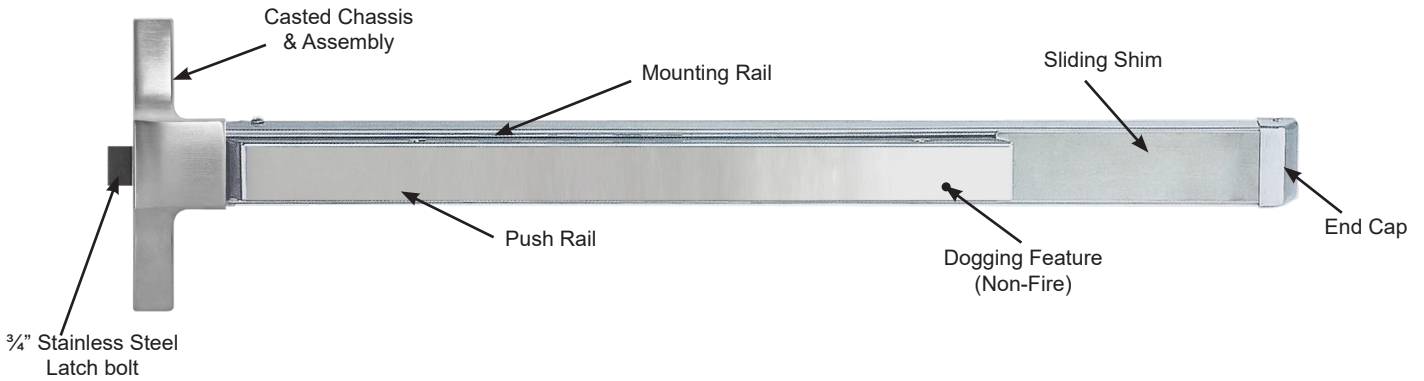
ITEM#	DESCRIPTION
FS12MR	FAIL-SAFE (**FS**) OPTION 12V AC / DC
FS24MR	FAIL-SAFE (**FS**) OPTION 24V AC / DC
FSE12MR	FAIL-SECURE (**FSE**) OPTION 12V AC / DC
FSE24MR	FAIL-SECURE (**FSE**) OPTION 24V AC / DC

Must be used with MRESC00 Trim.

GLS9800 & FGLS9800 Series

GRADE 1 Rim Type Narrow Stile Exit Device

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | cULus PANIC & SAFETY | cULus 3 HOUR FIRE RATED UL10C, UBC7-2-1997



Specifications

For Doors..... Wood, Metal or Aluminum Glass doors with 1 ¾" minimum stile width, 1 ¾" thickness for single or double door application

Chassis..... Non-ferrous Alloy (Panic Grade)

Cover..... Non-ferrous plated material.

Mounting..... Furnished with wood and machine screws. Thru-bolts available upon request.

End Cap..... Brass, Bronze or Stainless Steel construction

Alarm..... Available for 36" bar only. Prefix "**NALRM"** before PART #

Hand..... Non-handed

Latch Bolt..... Stainless Steel ¾" throw

Spring..... Stainless Steel throughout

ANSI Standard..... A156.3, Grade 1

Rail Assembly..... Heavy gauge extruded aluminum body with Stainless Steel push pad

Strike..... 246 packed standard. Optional 247 strike. (See strike page)

Dogging Feature..... Available for 36" bar only. Allen-type key furnished standard.

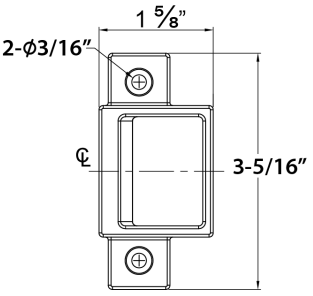
Mullion..... Available

UL and ULC Listed..... GLS9800 Series for Panic & Safety for all types of 4' x 8' single doors and 8' x 8' double doors. FGLS9800 Series for all types of 4' x 8' single doors for up to 3 hour fire labeled installations. Conforms to UL10C and UBC7-2-1997 codes.

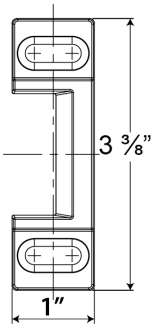
Finish..... Architectural plated finishes

Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**



246 STRIKE



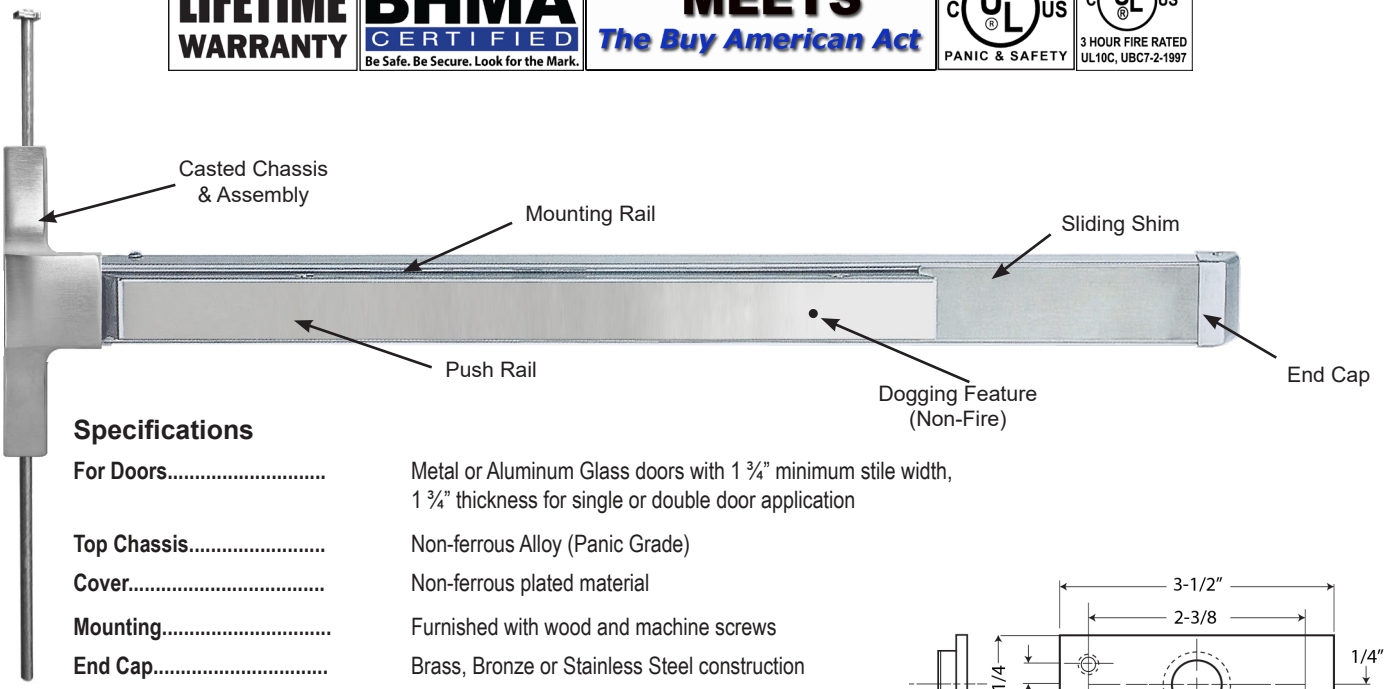
247 STRIKE (OPTIONAL)

DIMENSIONS			
Push Rail height to finished floor	41" (1041 mm) at center		
Push Rail projection			
Neutral	2 ¾" (70 mm)		
Depressed	1 ⅞" (48 mm)		
Center case	8 1/16" x 1 1/8" x 2" (205 mm x 29 mm x 51 mm)		
MODEL	**ACTUAL LENGTH**	**MAX CUT DOWN**	**DOOR SIZE**
GLS9800EO36, FGLS9800EO36	34 17/32"	10"	30" to 36" width
GLS9800EO48, FGLS9800EO48	46 11/32"	12"	36" to 48" width

GLSCVR9800 & FGLSCVR9800 Series

GRADE 1 Concealed Vertical Type, Narrow Stile Exit Device
Optional Less Bottom Rod (LBR)

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | cULus PANIC & SAFETY | cULus 3 HOUR FIRE RATED UL10C, UBC7-2-1997



Specifications

For Doors..... Metal or Aluminum Glass doors with 1 ¾" minimum stile width, 1 ¾" thickness for single or double door application

Top Chassis..... Non-ferrous Alloy (Panic Grade)

Cover..... Non-ferrous plated material

Mounting..... Furnished with wood and machine screws

End Cap..... Brass, Bronze or Stainless Steel construction

Hand..... Handed. Specify RHR or LHR

Top and Bottom Bolts..... Stainless Steel. Top and bottom bolt travel 7/16" (11 mm) Stainless Steel adjustable to 1" (25 mm)

Spring..... Stainless Steel throughout

ANSI Standard..... A156.3, Grade 1

Rail Assembly..... Heavy gauge extruded aluminum body with Stainless Steel push pad

Strike..... 260 Top and 265 Bottom strikes packed standard (See strike page)

Dogging Feature..... Available for 36" bar only. Allen-type key furnished standard.

Mullion..... Available

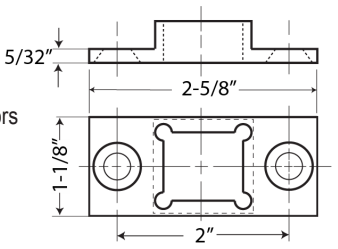
UL and ULC Listed..... GLSCVR9800 Series for Panic & Safety for all types of 4' x 8' single doors and 8' x 8' double doors for Panic & Safety. FGLSCVR9800 Series for all types of 4' x 8' single doors for up to 3 hour fire labelled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.

Finish..... Architectural plated finishes

Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**

260 TOP STRIKE



265 BOTTOM STRIKE

DIMENSIONS			
Push Rail height to finished floor	41" (1041 mm) at center		
Push Rail projection			
Neutral	2 ¾" (70 mm)		
Depressed	1 ⅞" (48 mm)		
Center case	8 1/16" x 1 1/8" x 2"(205 mm x 29 mm x 51 mm)		
MODEL	**ACTUAL LENGTH**	**MAX CUT DOWN**	**DOOR SIZE**
GLSCVR983684, FGLSCVR983684	34 17/32"	6"	30" to 36" width
GLSCVR984884	46 11/32"	18"	30" to 48" width

Trim Selection

ESCUTCHEON LEVER DESIGN

CONSTRUCTION

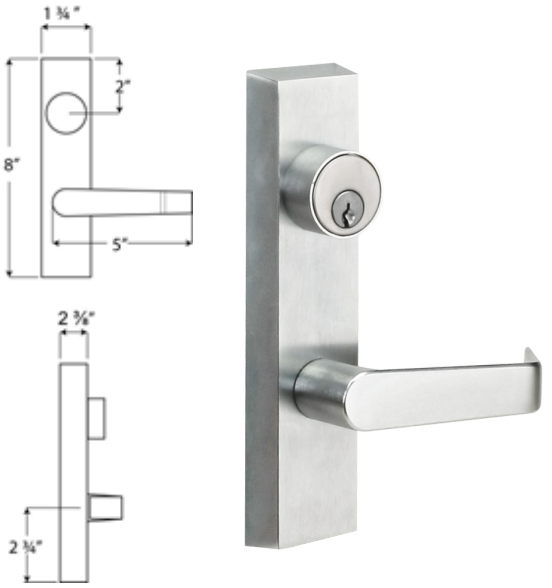
- Free-wheeling clutch mechanism.
- Grade 1, thru-bolted design. Reversible design
- Hardened steel heavy duty tailpiece.
- Available for rim and concealed vertical rod exit devices

DOOR THICKNESS

Standard 1 ¾”

ESCUTCHEON DIMENSIONS

1 $^{13}/_{16}$” width X 8” length
Lever length: 5”



GLSRIM9800
GLSCVR9800
ICGLSRIM9800
ICSCGLSRIM9800
ICGLSCVR9800
ICSCGLSCVR9800

ENTRANCE
Clutch free-wheeling Entrance, key locks or unlocks escutcheon trim ANSI Function (08) Operates as classroom function
CVR is used for Concealed Vertical Rod Exit Device
RIM is used for Rim Type Exit Device

IMPORTANT: GLS9800 and GLSCVR9800 Trims can be used with GLS7700 and GLSCVR7700 Exit Devices

GLSRIM9805
GLSCVR9805
ICGLSRIM9805
ICSCGLSRIM9805
ICGLSCVR9805
ICSCGLSCVR9805

STOREROOM
Clutch free-wheeling Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked.
ANSI Function (09)
CVR is used for Concealed Vertical Rod Exit Device
RIM is used for Rim Type Exit Device

NOTES:

- AT, RL, TUB lever design is available upon request.
- **ELECTRIFICATION NOT AVAILABLE FOR TRIM**
- Electrical Latch Retraction (**ELR**), Request to Exit (**RX**) and Latchbolt Monitoring (**LX**) available for Exit Device only.
- Anti-Microbial Coating available in US26D Only. Use part # “**ANTB-TRIM**” when ordering.

GLSRIM9830
GLSCVR9830

PASSAGE
Trim always operable and free
ANSI Function (14)
CVR is used for Concealed Vertical Rod Exit Device
RIM is used for Rim Type Exit Device

GLSRIM9840
GLSCVR9840

DUMMY
Dummy Escutcheon trim ANSI Function (02)
CVR is used for Concealed Vertical Rod Exit Device
RIM is used for Rim Type Exit Device

KEYWAY: 6-Pin solid brass “C” keyway Rim Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Secity Cylinders.

- **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW
- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

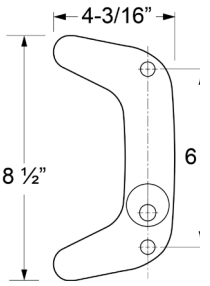
Trim Selection

PULL DESIGN - FOR GLS9800 RIM EXIT DEVICE ONLY

98GLSNL
IC98GLSNL
ICSC98GLSNL

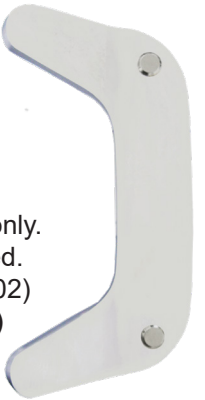
Outside by pull and key.
Key retracts latch bolt.
ANSI Function (03)
(SPECIFY HANDING)

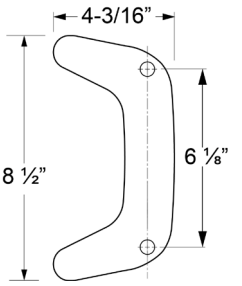




98GLSUP

Outside by pull only.
Pull when dogged.
ANSI Function (02)
(NON-HANDED)

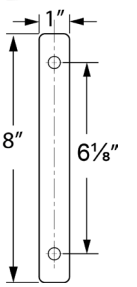




GLSRIMEOP

Outside cover plate only.
ANSI Function (01)





KEYWAY
Standard 6-Pin solid brass “C” keyway Rim Cylinder included.

FINISHES
Architectural plated finishes.

IMPORTANT: GLS9800 and GLSCVR9800 Trims can be used with GLS7700 & GLSCVR7700 Exit Devices

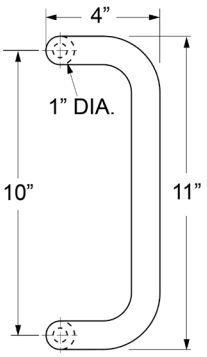


98GLSCYL-1



IC98GLSCYL-1
ICSC98GLSCYL-1





OFSTPUL-10
(REVERSIBLE)

KEYWAY: 6-Pin solid brass “C” keyway Rim Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

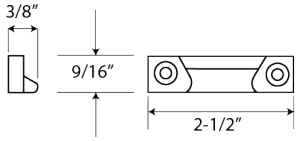
- **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

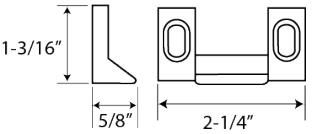
Strikes & Accessories

Strikes for use with A9860V Vertical Rod Exit Device
All strikes are black nylon coated

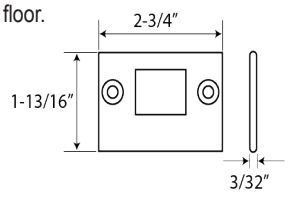
221
Standard for A9860V. Applied to surface of floor or to a flat threshold. Standard packaging.



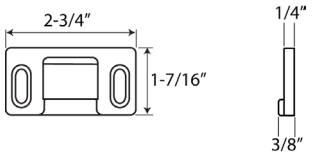
227
Applied to surface of stop. No mortise required. Standard packaging.



233
Bottom stike. Alternate bottom strike. Flush mounting, stainless steel. Furnished with expansion shields. Requires mortise on the floor.

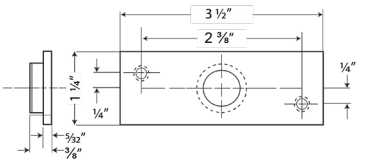


RIM238
Strike for 2 ⅜" Backset Application

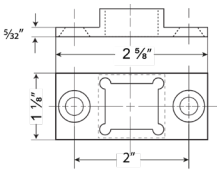


Strikes for FMCVR9800, MCVR9800, WCVR9800, FWCVR9800, GLSCVR9800 Fire and Non-Fire Exit Devices

260 TOP STRIKE

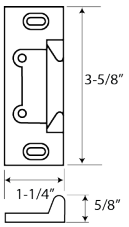


265 BOTTOM STRIKE



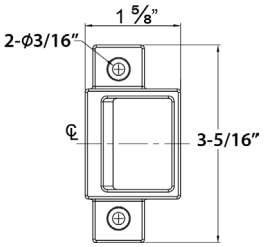
Strikes for use with AF9860V Vertical Rod Fire Exit Device

245
For AF9860V surface applied. Standard packaging.

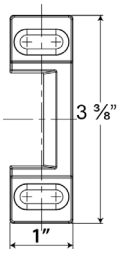


Strikes for use with GLS9800 Narrow Stile Exit Device

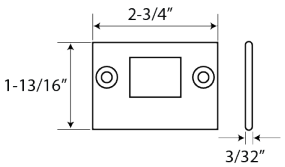
246
Used on frames with blade stop or integral stop. Surfaced applied or mortised. Standard packaging.



247
Applied to surface of stop. No moritse required.

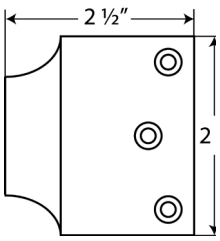


233
Bottom strike for AF9860V. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor. Standard packaging



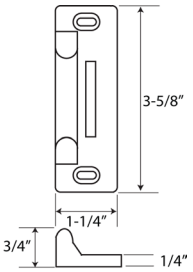
Overlapping Strikes

N251
Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion.



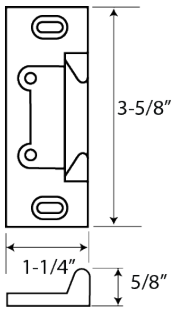
Strikes for use with A9800 Rim Type Exit Device

239
For A9800 surface applied. Standard packaging.

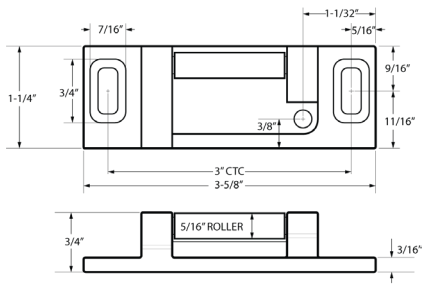


Strike for use with AF9800 Rim Type Fire Exit Device

245
For AF9800 surface applied. Standard packaging.



ADA Roller Strike for A9800, AF9800, A9860V, and AF9860V Fire and Non-Fire Exit Devices

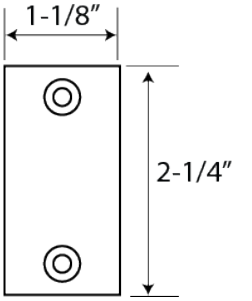


945 (NON-FIRE RATED)
945F (FIRE RATED)

Accessories

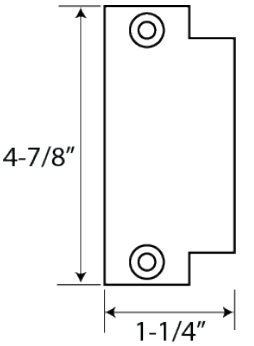
LFF

Lock front filler



SF

Strike filler

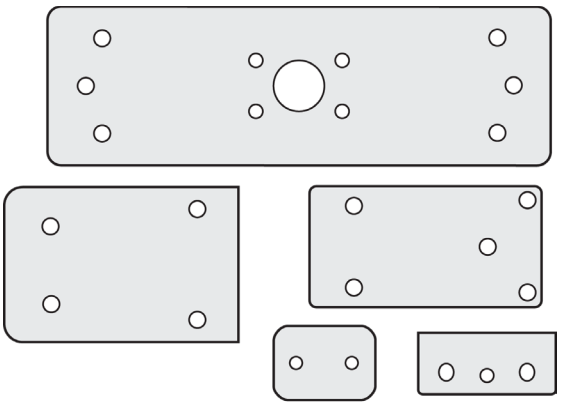


GLASS BEAD SHIM KITS

801 – For rim type, ⅛" thick

806 – For vertical type, ⅛" thick

812 – For fire rated type, ⅛" thick



CYLINDER DOGGING KITS

TO ORDER: Prefix "CD" before PART #.
Available for all 9800 Series devices except fire exit hardware. Cylinder dogging with mortise cylinder is located on the mounting insert lock bolt in retracted position.

KIT ONLY: Use PART # 36CD9800 for 36" and 48CD9800 for 48" devices. Specify finish.

NOTE: Use PART # 48CD9800 for 36" GLS Narrow Stile Rim and CVR Non-Fire Exit Devices.



CYLINDER DOGGING KIT

- **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW
- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

Fire Exit Hardware Selector

FIRE EXIT HARDWARE RATING			UL DOOR RATING
APPLICATION	**MODEL #**	**MAXIMUM DOOR OPENING**	**(A) 3 HOUR**
SINGLE DOORS Rim type	AF9800EO36 AF9820EO48	4’0” X 8’0”	✓
PAIRS OF DOORS Two surface mounted standard vertical rod type or less bottom rod (LBR) application. Prefix **LBR** before Part # a) Swinging in same direction b) Swinging in opposite direction (double egress)	AF9860V3684 X AF9860V3684	8’0” X 7’2”	✓
	AF9890V3696 X AF9890V3696 AF9880V4896 X AF9880V4896	8’0” X 8’0”	✓
PAIRS OF DOORS Two rim type with Mullion	AF9800EO36 AF9820EO48	8’0” X 8’0”	✓

All fire rated exit devices in all applications, are also labeled for (B) 1 ½ hour, (C) ¾ hour, (D) 1 hour, (E) ¾ hour.
All fire exit hardware meet UL10C and UBC 7-2-1997 codes.

HOW TO ORDER INFORMATION

Exit device model number

Panic grade

A9800 EO36 Rim type 36” door
A9820 EO48 Rim type 48” door
A9860 V3684 Vertical rod type 36” x 84”
A9890 V3696 Vertical rod type 36” x 96”
A9880 V4896 Vertical rod type 48” x 96”
VRRD10 – Rod for 10’ non-rated door
A9850 V36120 Vertical rod type 36” x 120”
A9840 V48120 Vertical rod type 48” x 120”

Fire grade

AF9800 EO36 Rim type 36” door
AF9820 EO48 Rim type 48” door
AF9860 V3684 Vertical rod type 36” x 84”
AF9890 V3696 Vertical rod type 36” x 96”
AF9880 V4896 Vertical rod type 48” x 96”
AF9850 V36120 Vertical rod type 36” x 120”
AF9840 V48120 Vertical rod type 48” x 120”

1) Specify exit device model number according to size of door.
2) Specify trim selection. For interchangeable core prefix “IC” before Part #. See trim selection pages.
3) For vertical rod devices specify LHR (Left Hand Reverse) or RHR (Right Hand Reverse) for convenience easily field reversible, otherwise shipped as LHR.
4) Specify finish:US10B, US32D
5) On thru-bolt applications, fire rated vertical rod devices are packed with thru-bolts as standard feature. Thru-bolts are also available for other devices. To order thru-bolts add “SBN” to trim pack.

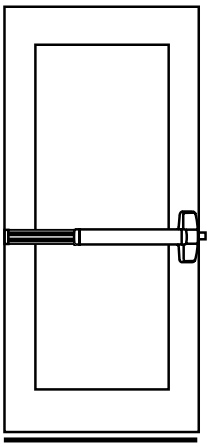
When ordering separately use following Part #

Cal-Royal Part # 357 —— Thru-bolts for rim devices, 6 pcs / pack.
Cal-Royal Part # 369 —— Thru-bolts for vertical rod devices, 14 pcs / pack.
Cal-Royal Part # 363 —— Thru-bolts for rim devices, 6 pcs / pack for 2 ¼” thick doors.
Cal-Royal Part # 375 —— Thru-bolts for vertical rod devices, 14 pcs / pack for 2 ¼” thick doors.

Ordering example: A9800E036 ALUM X SBN X ENT00L 26D
AF9880V4896 10B X ICSTR05L 10B

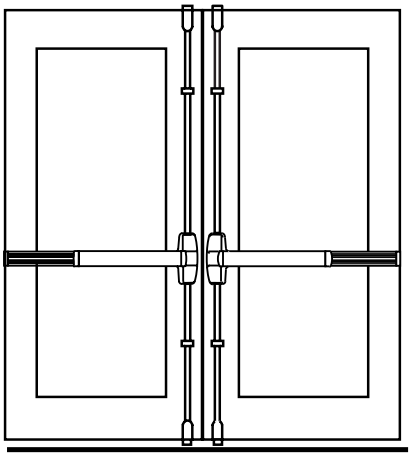
9800 Series
Fire and Non-Fire Exit Devices
ANSI A156.3 Grade 1 Selector Chart

SINGLE DOOR



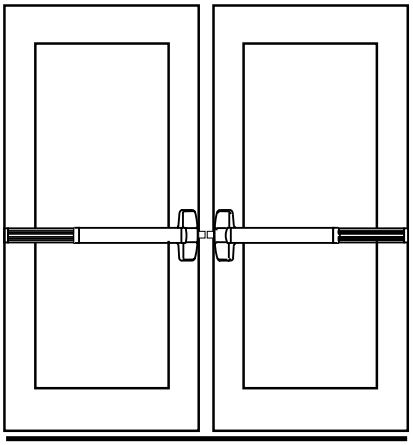
Vertical rod type or Rim type — Surface applied 2 point lock. Surface application.

PAIR OF DOORS WITHOUT MULLION



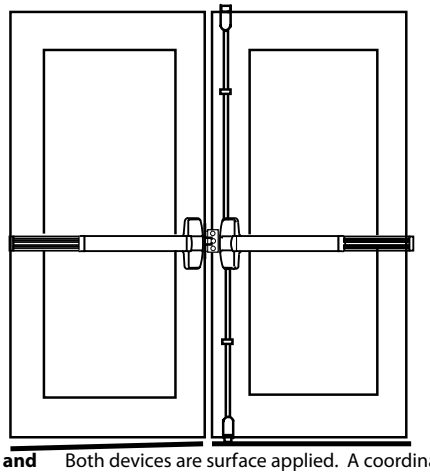
2 Vertical rod type — Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.

PAIR OF DOORS WITH MULLION



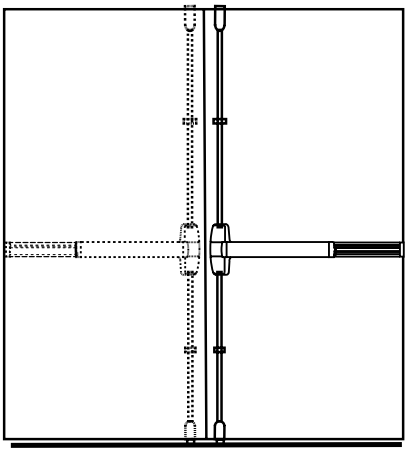
2 Rim type with mullion — Two independent active doors with full double door openings when required. Same direction.

PAIR OF DOORS WITHOUT MULLION



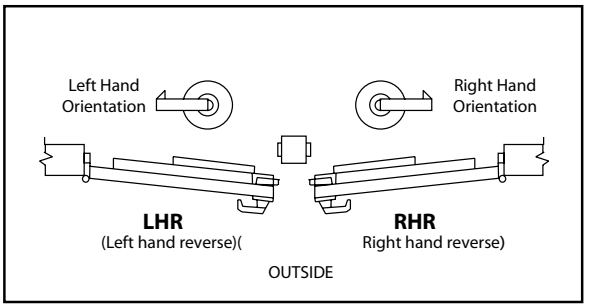
1 Vertical rod and 1 rim type — Both devices are surface applied. A coordinator and overlapping strike is recommended.

PAIR OF DOORS WITHOUT MULLION



2 Vertical rod type — Double egress surface applied. 2 point locking both doors opposite directions.

HANDING



CAL-ROYAL PRODUCTS, INC.
6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com * Email: sales@cal-royal.com

Exit Devices Comparison Chart

RIM EXIT DEVICE CONVERSIONS	RIM	VERTICAL ROD	RIM	VERTICAL ROD	CONCEALED VERTICAL ROD	MORTISE RIM	NARROW STILE RIM	NARROW STILE CVR
ARROW	S1200	S1100	S3800 / 1800	S3700	S3600	S3900	S4803	S4601
CAL-ROYAL	6600 / A9800 / A7700	6660V / A9860V / A7760V	A2200 / 4400	A2260V	CVR6600 / MCVR9800 / WCVR9800 / MCVR7700 / WCVR7700	MR6600 / MR9800 / MR7700	GLS6600 / GLS9800 / GLS7700	GLSCVR6600 / GLSCVR9800 / GLSCVR7700
CORBIN/RUSSWIN	ED8200	ED8400	ED5400 / ED6000	ED4750	ED5800	ED5600	ED4200	ED4800
DETEX	V4000	---	10	20	70	30	V40NS	60
DORMA	8300	8400	9300	9400	9100	9500	AD4300	AD4100
PRECISION	5100	5200	2100 / 100	9800 / 200	2800	2300	2400	2600
SARGENT	2828	2727	8800 / 9898	8700	MD8600 / WD8600	8900	AD8500	AD8410
VON DUPRIN	98 / 99	9827 / 9927	98	9827	9947EO	9975EO	33A	3348
YALE	2100	2110	7100 / 1500	7110 / 1510	7120	7130	7250	7220

6600 & F6600 Rim Type Panic And Fire Exit Devices

6660V & F6660V Vertical Rod Panic And Fire Exit Devices

ANSI A156.3, Grade 1

c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997 | LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.



Features & Construction

- for use in Institutions, Schools, Universities, Commercial Buildings where heavy duty reliable operation is a requirement
- ANSI A156.3, Grade 1 Heavy Duty Exit Device in Surface Vertical Rod and Rim designs
- Rail assemblies are heavy duty extruded steel or stainless steel S304 body with steel or stainless steel S304 push pad and end caps. Rail travels in direction of the door swing
- Trims are thru-bolted for additional security
- UL Listed for Panic and ULC10C, UBC 7-2-1997 codes
- UL Listed for Fire Exit Hardware. 3 hours
- (A) label rating on pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- Uncompromising security and safety in single and double fire exit doors
- Chassis mounted unit construction. Rim and Vertical Rod Devices are non-handed and easily reversible
- Available in many different functions. Lever and escutcheon trims are Grade 1 construction with clutch on rose trims and covers 161 cut-out. Escutcheon trims comes in standard and heavy duty construction. Grade 2 levers are also available with clutch and rigid on rose trims, as well as different pulls, thumbpiece trims and night latches.

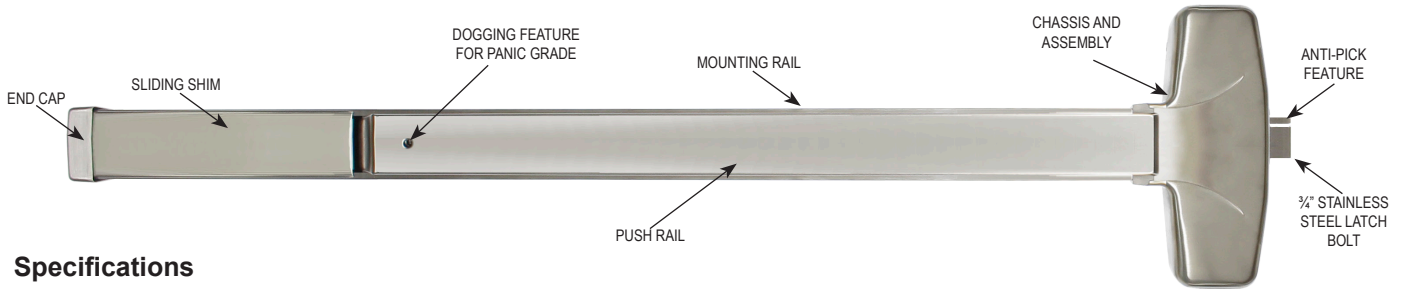
Suggested Architect's Specifications

- All Exit Devices shall be of touch bar design with smooth operation and be operative over ⅔ of the door's clear opening width
- All Exit Devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes
- All Springs shall be of Stainless Steel throughout
- All Exit Devices shall be of chassis mounted unit construction
- All Exit Devices shall be ANSI A156.3, Grade 1

6600 & F6600 Series

GRADE 1 Rim Type Exit Device

3 HOUR FIRE RATED UL10C, UBC7-2-1997 | LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.



Specifications

For Doors..... 1 ¾" thick Standard. Optional 2 ¼" thick. 4 ½" minimum Stile Width for single or double door application using standard 938 strike and pull lever, thumbpiece and escutcheon trims.

Chassis..... Steel material for Panic and Fire Grade.

Cover..... Zinc or Stainless Steel S304 material. Covers stock hollow metal doors with 161 cut out

Mounting..... Furnished with wood and machine screws. Available thru-bolts on request.
(5) Thru-Bolts are included and standard packaging on fire rated devices

End Cap..... Steel or Stainless Steel S304 construction

End Bracket..... Steel material

Hand..... Non-Handed

Latch Bolt..... Stainless Steel S304, ¾" throw with anti-pick feature

Spring..... Stainless Steel S304 material

ANSI Standard..... A156.3, Grade 1

Rail Assembly..... Heavy Gauge Extruded Steel body with Steel or Stainless Steel S304 push pad

Strike..... 938 packed standard (See strike page)

Dogging Feature..... Allen-Type key furnished standard on non-fire labeled devices

Mullion..... Available

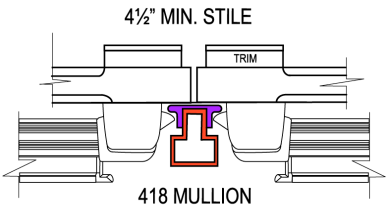
UL and ULC Listed..... 6600 Series for Panic. F6600 Series for Fire Exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes

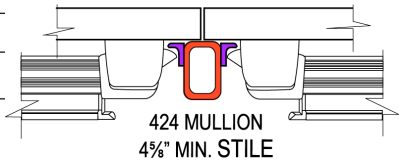
Finish..... Architectural plated finishes

Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**

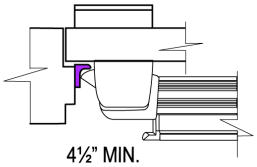
4 ½" Minimum Stile Requirements

DOUBLE DOOR





SINGLE DOOR



DIMENSIONS	
Touchbar height to finished floor	41" (1041 mm) at center
Touchbar projection	
Neutral	2 ⅝" (67 mm)
Depressed	1 ⅞" (48 mm)
Center case	8 1/16" x 2 ¾" x 2 ½" (205 mm x 70 mm x 63 mm)

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE	PUSH BAR LENGTH
6600EO36 and F6600EO36	32"	6"	30" to 36" door width	21"
6620EO48 and F6620EO48	44"	12"	36" to 48" door width	26 ½"

6660V & F6660V Series

GRADE 1 Vertical Rod Type Exit Device

3 HOUR FIRE RATED UL10C, UBC7-2-1997 | LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.

Specifications

For Doors..... 1 ¾" thick Standard. Optional 2 ¼" thick. 3 ¾" minimum Stile Width required for single door application. 3 ½" minimum Stile Width required for double door application. Lever, thumb piece and escutcheon trims available.

Top & Bottom Chassis..... Steel material for Panic and Fire Grade.

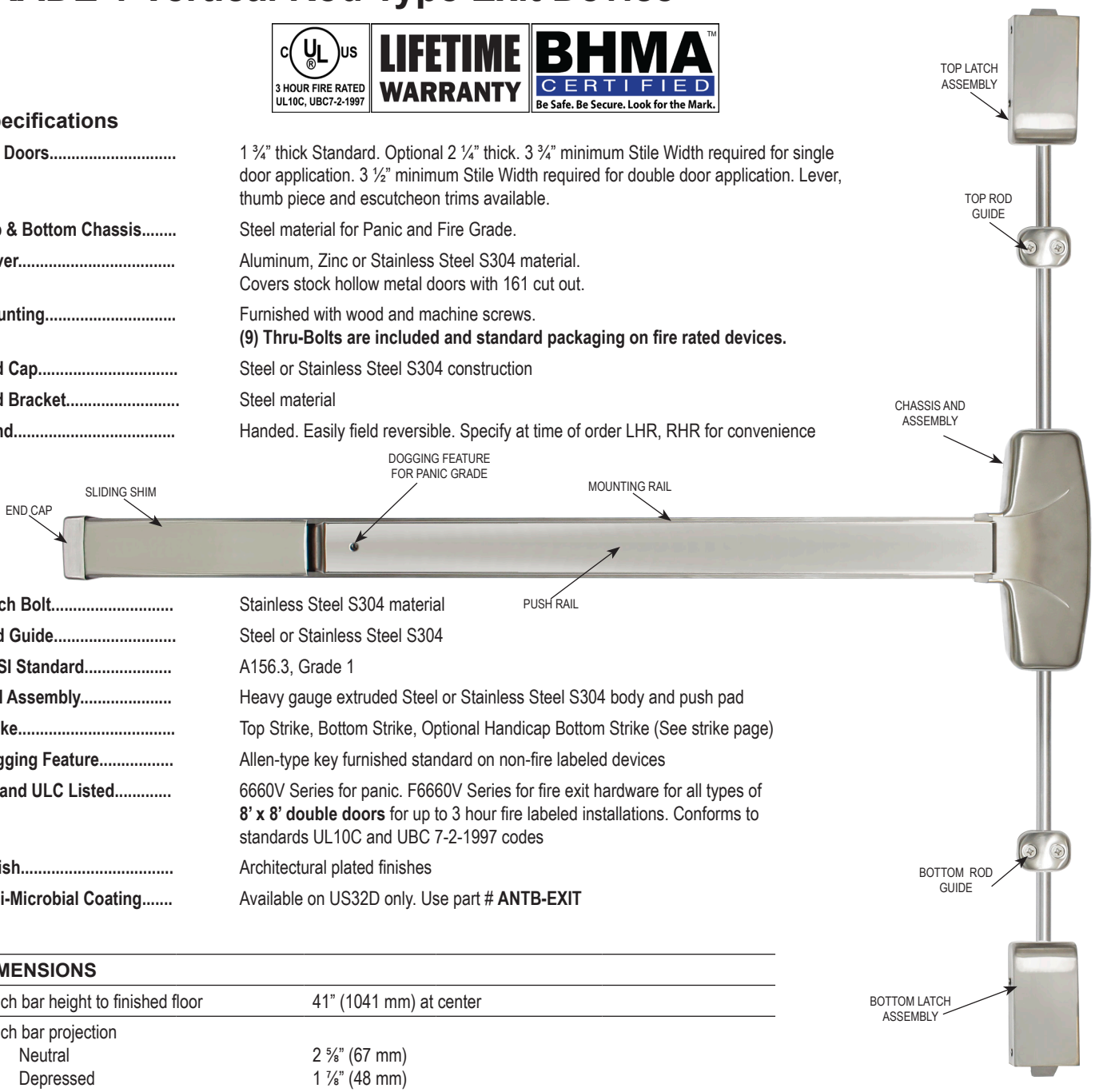
Cover..... Aluminum, Zinc or Stainless Steel S304 material.
Covers stock hollow metal doors with 161 cut out.

Mounting..... Furnished with wood and machine screws.
(9) Thru-Bolts are included and standard packaging on fire rated devices.

End Cap..... Steel or Stainless Steel S304 construction

End Bracket..... Steel material

Hand..... Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience



Latch Bolt..... Stainless Steel S304 material

Rod Guide..... Steel or Stainless Steel S304

ANSI Standard..... A156.3, Grade 1

Rail Assembly..... Heavy gauge extruded Steel or Stainless Steel S304 body and push pad

Strike..... Top Strike, Bottom Strike, Optional Handicap Bottom Strike (See strike page)

Dogging Feature..... Allen-type key furnished standard on non-fire labeled devices

UL and ULC Listed..... 6660V Series for panic. F6660V Series for fire exit hardware for all types of **8' x 8' double doors** for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes

Finish..... Architectural plated finishes

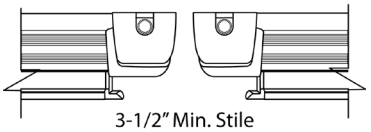
Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**

DIMENSIONS	
Touch bar height to finished floor	41" (1041 mm) at center
Touch bar projection Neutral Depressed	 2 ⅝" (67 mm) 1 ⅞" (48 mm)
Center case	8 1/16" x 2 ¾" x 2 ½" (205 mm x 68 mm x 62 mm)
Panic grade top & bottom latch case	4" x 2" x 1 ¾" (102 mm x 51 mm x 44 mm)
Fire grade top & bottom latch case	4" x 2" x 1 ¾" (102 mm x 51 mm x 44 mm)
Top and bottom rod length for 36" x 84" doors	Top rod 37 ½" (953 mm), bottom rod 33 ½" (851 mm)
Top and bottom rod length for 48" x 96" doors	Top rod 37 ½" + 12" ETR (1257 mm), bottom rod 33 ½" (851 mm)
Vertical Rods	15/32" (11.9 mm) round tubing

MODEL	ACTUAL SIZE	MAX CUT DOWN	DOOR SIZE	PUSH BAR LENGTH
6660V3684, F6660V3684	32"	6"	30" to 36" door width	21"
6680V4896, F6680V4896	44"	12"	38" to 48" door width	26 ½"

MINIMUM STILE REQUIREMENTS

Double Door with Two Vertical Rod Type Exit Devices



LBR6660V & LBRF6660V Series

GRADE 1 Vertical Rod Exit Device Less Bottom Rod (LBR)

3 HOUR FIRE RATED UL10C, UBC7-2-1997 | LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.



Specifications

For Doors..... 1 ¾" thick Standard. Optional 2 ¼" thick. 3 ¾" minimum Stile Width required for single door application. 3 ½" minimum Stile Width required for double door application. Lever, thumb piece and escutcheon trims available.

Top Chassis..... Steel material for Panic and Fire Grade.

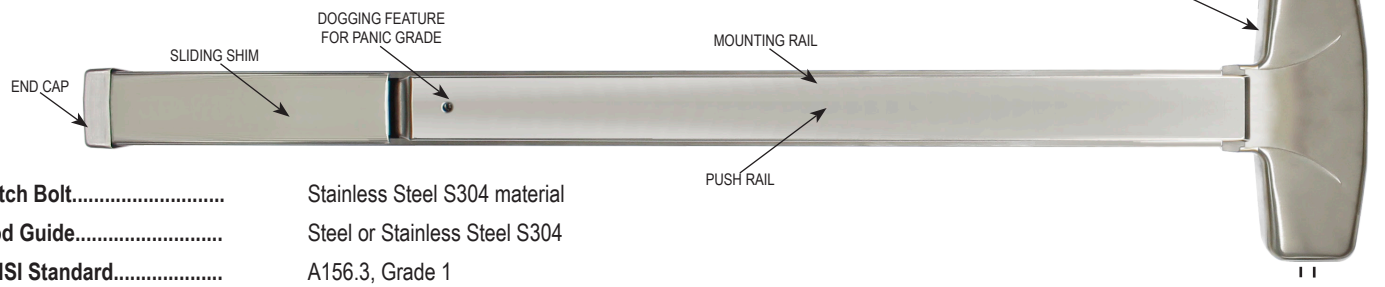
Cover..... Aluminum, Zinc or Stainless Steel S304 material. Covers stock hollow metal doors with 161 cut out.

Mounting..... Furnished with wood and machine screws. **(7) Thru-Bolts are included and standard packaging on fire rated devices.**

End Cap..... Steel or Stainless Steel S304 construction

End Bracket..... Steel material

Hand..... Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience



Latch Bolt..... Stainless Steel S304 material

Rod Guide..... Steel or Stainless Steel S304

ANSI Standard..... A156.3, Grade 1

Rail Assembly..... Heavy gauge extruded Steel or Stainless Steel S304 body and push pad

Strike..... Top Strike (See strike page)

Auxiliary Fire Latch..... Stainless Steel S304 material. **Strike hole plug is included in the standard packaging (for fire rated devices only).**

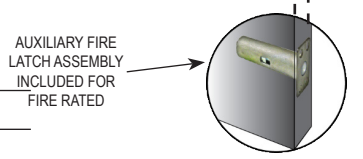
Head Cover Plug..... ABS Plastic construction

Dogging Feature..... Allen-type key furnished standard on non-fire labeled devices

UL and ULC Listed..... 6660V Series for panic for up to 8' x 10' double doors. F6660V Series for fire exit hardware for all types of **8' x 8' double doors** for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes

Finish..... Architectural plated finishes

Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**

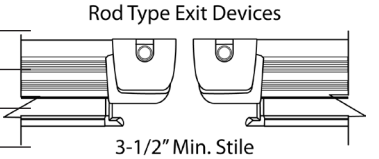


DIMENSIONS

Touch bar height to finished floor	41" (1041 mm) at center
Touch bar projection	
Neutral	2 ⅝" (67 mm)
Depressed	1 ⅞" (48 mm)
Center case	8 1/16" x 2 ¾" x 2 ½" (205 mm x 68 mm x 62 mm)
Panic grade top latch case	4" x 2" x 1 ¾" (102 mm x 51 mm x 44 mm)
Fire grade top latch case	4" x 2" x 1 ¾" (102 mm x 51 mm x 44 mm)
Top rod length for 36" x 84" doors	Top rod 37 ½" (953 mm), bottom rod 33 ½" (851 mm)
Top rod length for 48" x 96" doors	Top rod 37 ½" + 12" ETR (125 7 mm), bottom rod 33 ½" (851 mm)
Vertical Rods	15/32" (11.9 mm) round tubing

MINIMUM STILE REQUIREMENTS

Double Door with Two Vertical Rod Type Exit Devices



MODEL	ACTUAL SIZE	MAX CUT DOWN	DOOR SIZE	PUSH BAR LENGTH
LBR6660V3684, **LBR**F6660V3684	32"	6"	30" to 36" door width	21"
LBR6680V4896, **LBR**F6680V4896	44"	12"	38" to 48" door width	26 ½"

Alarm Exit Hardware

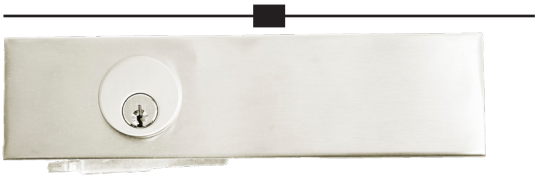
3 HOUR FIRE RATED UL10C, UBC7-2-1997 | LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.



PANIC GRADE	FIRE GRADE
NALRM660036 - Alarm Rim Type 36" Door	FNALRM660036 - Alarm Rim Type 36" Door
NALRM662048 - Alarm Rim Type 48" Door	FNALRM662048 - Alarm Rim Type 48" Door

FEATURES

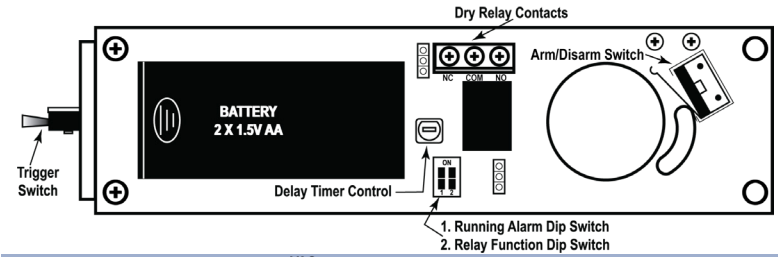
- Alarm unit has an internal horn. When the push rail is depressed, the horn sounds to provide an audible means of signaling that the door has been opened and breached.
- The alarm will sound continuously for 150 seconds or until disarmed. A running alarm mode can be set to sound a 6-second beep every 6 seconds after the initial 150 seconds expires. Running alarm will sound until the unit is disarmed or until battery runs out of power.
- Alarm sound frequency is 120 db
- The key switch to turn alarm off is a standard 1 ¼" cylinder with "C" keyway. The alarm operates on two standard 1.5-volt AA battery.
- Unit includes a decal for application on door or unit: "**EMERGENCY EXIT ONLY ALARM WILL SOUND**"
- **FIRE ALARM** - a built-in heat sensor will sound a continuous 0.3 sec interval beeping sound when surrounding temperature reaches 122°F ±7.2°F, until it is disarmed or the temperature goes down to 113°F or below.
- **LOW BATTERY ALARM** - When battery voltage drops to 2.4VDC ± 0.1VDC a 0.3 sec beep every 3 seconds will sound.

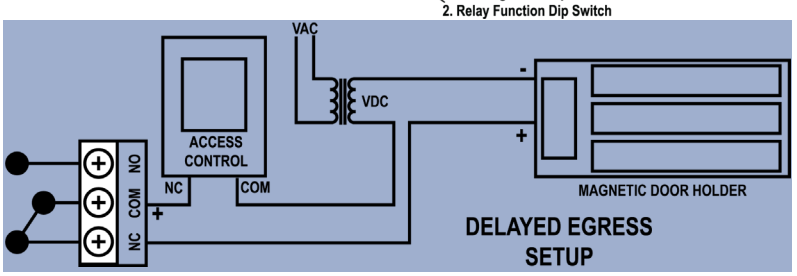




FOR OTHER TYPES, PREFIX "NALRM" BEFORE PART#

RELAY SWITCHING FUNCTION - A relay switching function and dry relay contact, together with a programmable built-in timer can be utilized to set up a delayed egress application when used with a *magnetic door holder**.





**Magnetic Door Holder not included, must purchase from 3rd party*

Cylinder Dogging Kit

TO ORDER: Prefix "CD" before PART #. Available for all 6600 Series devices except fire exit hardware.
To order **KIT ONLY**: use PART # 36CD6600 for 36" and 48CD6600 for 48" devices. Specify finish.

Finishes (Refer to Price List for Stock Finishes)

Cal-Royal	Description	BHMA	US Finish	Material
DURO	Duronodic	313	710	Bronze
ALUM	Aluminum	628	US28	Aluminum
US32D	Satin Stainless	630	US32D	Stainless Steel

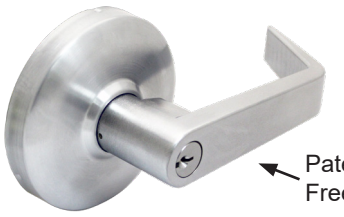
- **(IC) INTERCHANGEABLE CORE** locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW.**
- **(ICSC) INTERCHANGEABLE CORE** available with **Schlage Full Size Format. Corbin, Sargent and Yale** format also available.

Trim Selection

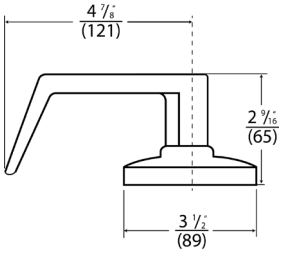
CLUTCH CYLINDRICAL LEVER

Non-Handed Grade 1 (Clutch Style)
Cylindrical body hardened steel heavy duty tailpiece. For 1 ¾" and 2 ¼" doors.
Prefix **"THI"** before Part # for 2 ¼" door thickness.
Available for fire and non-fire rated rim and vertical rod exit devices.
Rose diameter 3 ½", lever length 4 ¾". Fits and covers 161 cutout.
Finishes: US26D, US26, US3, US4, US10B, US10BE, US1

GN DESIGN ONLY: ENT00L, ICENT00L, STR05L, ICSTR05L, PAS30L, DUM40L IN US32D FINISH, ALL STAINLESS STEEL EXTERIOR. INCLUDES GRADE 304SS LEVER AND ROSE



GN DESIGN



- **ENT00L or**
- **ICENT00L or**
- **ICSCENT00L4**
- **SARICENT00L** (Sargent)
- **RUSICENT00L** (Corbin / Russwin)
- **YALICENT00L** (Yale)

ENTRANCE
Key locks and unlocks lever.
Operates as CLASSROOM FUNCTION.
ANSI Function (08)

- **STR05L or**
- **ICSTR05L or**
- **ICSCSTR05L4**
- **SARICSTR05L** (Sargent)
- **RUSICSTR05L** (Corbin / Russwin)
- **YALICSTR05L** (Yale)

STOREROOM
Key operates lever,
otherwise always locked.
ANSI Function (09)

PAS30L

PASSAGE
Trim always operable and free.
ANSI Function (14)

DUM40L

DUMMY
Dummy trim. One sided
ANSI Function (02)

KEYWAY: 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

- **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW.**
- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **SCHLAGE, CORBIN/RUSSWIN, SARGENT and YALE Full Size Format** Interchangeable Core

	KEYWAY	+ DESIGN	+ FUNCTION	+ FINISH
BEST, FALCON, & ARROW -	IC	AT	ENT00L	
SCHLAGE -	ICSC	SPA	STR05L	
CORBIN/RUSSWIN -	RUSIC	TUB*	PAS30L	
SARGENT -	SARIC	AUG	DUM40L	
YALE -	YALIC	DAN		
		LON		
		TAC		

HOW TO ORDER IN LFIC

Example: ICSCENT00L4 US26D in "SPA" design is ICSCSPAENT00L4 US26D

Note: Yale LFIC is only available in GN, AT, SPA lever designs | TUB* is only available in SFIC.

Other Lever Trim Designs

Available in SFIC & LFIC



AT

Available in SFIC & LFIC



SPA

Available in SFIC



TUB

Available in SFIC & LFIC
except YALE LFIC



AUG

Available in SFIC & LFIC
except YALE LFIC



DAN

Available in SFIC & LFIC
except YALE LFIC



LON

Available in SFIC & LFIC
except YALE LFIC



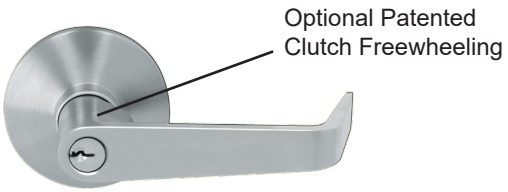
TAC

Anti-Microbial Coating available in US26D or US32D Only. Use part # "**ANTB-TRIM**" when ordering.

Trim Selection

LEVER DESIGN

Non-Handed (Optional Clutch)
Tubular body hardened steel heavy duty tailpiece. For 1 ¾" doors. Available for fire and non-fire rated rim and vertical rod exit devices. Rose diameter 3 ½", lever length 4 ¾". Fits and covers 161 cutout. Finishes: US26D, 10B, 3



8000L ENTRANCE
Key locks and unlocks lever.
Operates as classroom function.
ANSI Function (08)

CLU5000L CLUTCH FREE WHEELING (ENTRANCE)
Key locks and unlocks lever.
Operates as classroom function.
ANSI Function (08)

8000S STOREROOM
Key retracts latchbolt, otherwise always locked.
ANSI Function (09)

8000PAS PASSAGE
Lever always operable and free.
ANSI Function (14)

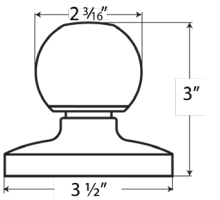
8000DUM DUMMY
Dummy trim. One sided.
ANSI Function (02)

KNOB DESIGN

Non-Handed
Tubular body hardened steel heavy duty tailpiece. For 1 ¾" doors. Available for fire and non-fire rated rim and vertical rod exit devices. Rose diameter 3 ½". Fits and covers 161 cutout. Finishes: US32D, 10B, 3

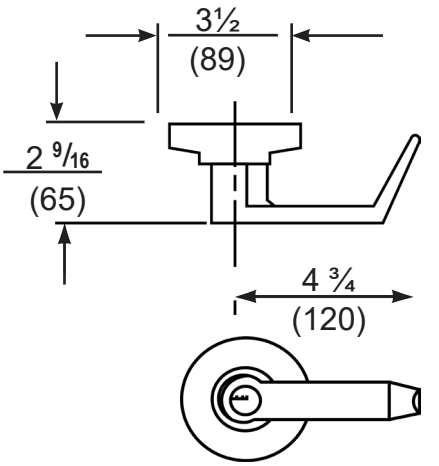


8000K



8000K ENTRANCE
Key locks and unlocks lever.
Operates as classroom function.
ANSI Function (08)

8000KSTR STOREROOM
Key retracts latchbolt, otherwise always locked.
ANSI Function (09)



KEYWAY: 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

PULL DESIGN

FOR RIM DEVICES ONLY
Outside by pull and key.
Key retracts latchbolt.
ANSI Function (03)
Covers 161 cutout.

FINISHES
Powder Coated Aluminum (ALUM)

5000NL



5000DTP



Outside by pull only.
Pull when dogged.
ANSI Function (02)
Covers 161 cutout.

5000EOP



Outside by plate only.
ANSI Function (01)
Covers 161 cutout.

Trim Selection

CLUTCH LEVER ESCUTCHEON

CONSTRUCTION

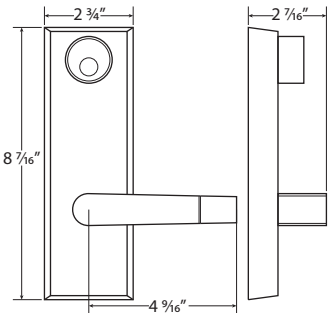
- Non-Ferrous Alloy Material
- Clutch Mechanism
- Double Heavy Duty Spring Support to prevent sagging and enhance operation
- Grade 1, Thru-Bolted design. Non-Handed design.
- Easily field reversible
- Hardened Steel Heavy Duty Spindle.
- Available for Fire and Non-Fire Rated Rim and Vertical Rod Exit Devices
- Standard 6-Pin Schlage "C" Mortise Cylinder included

DOOR THICKNESS

Standard 1 ¾" to 2". For 2 ¼" thick door us e additional **Part # TAIL3**

ESCUTCHEON DIMENSIONS

2 ¾" width x 8 7/16" length. Lever length: 4 9/16".
Fits and covers 2 ⅛" 161 cutout



TO ORDER other lever design
insert "**RL**" or "**TUB**" before "**ESC**":

e.g. **RL**ESC6600 for ESC6600 with RL design
or **TUB**ESC6600 for ESC6600 with TUB design

ESC6600 — **ENTRANCE**
ICESC6600
ICSCESC6600
Clutch Entrance, key locks or unlocks escutcheon trim
ANSI Function (08) Operates as classroom function

ESC6605 — **STOREROOM**
ICESC6605
ICSCESC6605
Clutch Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked. ANSI Function (09)

ESC6630 — **PASSAGE**
Trim always operable and free. ANSI Function (14)

ESC6640 — **DUMMY**
Dummy Escutcheon trim ANSI Function (02)

KEYWAY: 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK High Security*** Cylinders.

Lever Trim Designs



ESC6600



RLESC6600



TUBESC6600

Anti-Microbial Coating available in US26D Only. Use part # "**ANTB-TRIM**" when ordering.

(IC) INTERCHANGEABLE CORE locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW.**
(ICSC) INTERCHANGEABLE CORE available with **Schlage Full Size Format. Corbin, Sargent and Yale** format also available.

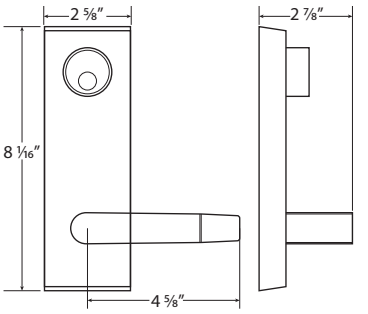
Trim Selection

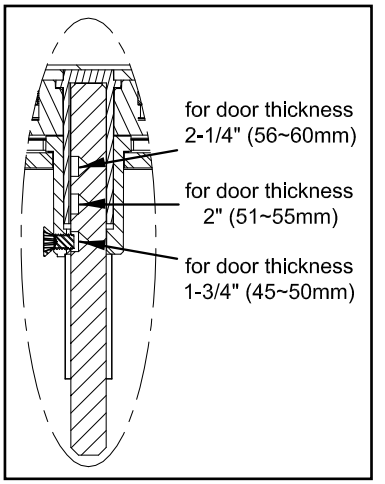
HEAVY DUTY STAINLESS STEEL CLUTCH LEVER ESCUTCHEON

(High Frequency Abusive Situation such as Schools, Hospitals, Industrial / Institutional)

CONSTRUCTION

- **Stainless Steel Material**
- Clutch Mechanism
- Double Heavy Duty Spring Support to prevent sagging and enhance operation
- Grade 1, Thru-Bolted design. Non-Handed design.
- Easily field reversible
- Includes Adjustable Heavy Duty Steel Spindle.
- Available for Fire and Non-Fire Rated Rim and Vertical Rod Exit Devices
- Standard 6-Pin Schlage "C" Mortise Cylinder included





DOOR THICKNESS

Standard 1 ¾" to 2 ¼".
Use Adjustable Spindle for 1 ¾", 2, 2 ¼" door thickness.

ESCUTCHEON DIMENSIONS

2 ⅝" width x 8 1/16" length. Lever length: 4 ⅝".
Fits and covers 2 ⅛" 161 cutout

ESC3300	**ENTRANCE**
ICESC3300	Clutch Entrance, key locks or unlocks escutcheon trim
ICSCESC3300	ANSI Function (08) Operates as classroom function
ESC3305	**STOREROOM**
ICESC3305	Clutch Storeroom, key unlocks lever, lever retracts latch
ICSCESC3305	bolt, otherwise always locked. ANSI Function (09)
ESC3330	**PASSAGE**
	Trim always operable and free. ANSI Function (14)
ESC3340	**DUMMY**
	Dummy Escutcheon trim ANSI Function (02)

TO ORDER other lever design insert "**RL**" or "**TUB**" before "**ESC**":
e.g. **RL**ESC3300 for ESC3300 with RL design
or **TUB**ESC3300 for ESC3300 with TUB design

Lever Trim Designs



ESC3300



RLESC3300



TUBESC3300

Anti-Microbial Coating available in US32D Only. Use part # "**ANTB-TRIM**" when ordering.

KEYWAY: 6-Pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK High Security*** Cylinders.

(IC) INTERCHANGEABLE CORE locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW.**
(ICSC) INTERCHANGEABLE CORE available with **Schlage Full Size Format. Corbin, Sargent and Yale** format also available.

Trim Selection

PULL DESIGN

7700 NL
- IC7700NL
- ICSC7700NL

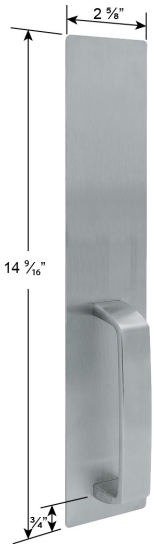
FOR RIM DEVICES ONLY
Outside by pull and key.
Key retracts latch bolt.
ANSI function (03)
Covers 161 cutout

KEYWAY
Standard 6-Pin solid brass “C” keyway Rim Cylinder included.

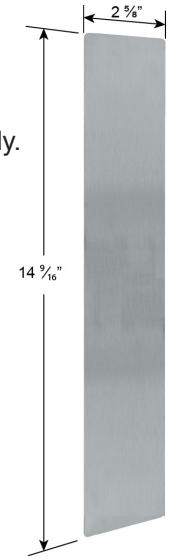
FINISHES
Architectural plated finishes.



7700 DTP
Outside by pull only.
Pull when dogged.
ANSI function (02)
Covers 161 cutout.



7700 EOP
Outside by plate only.
ANSI function (01)
Covers 161 cutout



IMPORTANT: 7700 Series Exit Device Trims shown on this page can be used on the 6600 Series Exit Devices

KEYED



DUMMY



77TP00 or **IC77TP00** **ICSC77TP00**	**ENTRANCE** Key locks or unlocks thumbpiece. (Operates as classroom function) ANSI Function (05)
77TP05 or **IC77TP05** **ICSC77TP05**	**STOREROOM** Key unlocks thumbpiece, thumbpiece retracts latch bolt, otherwise always locked. ANSI Function (06)
77TP30	**PASSAGE** Trim always operable and free. ANSI Function (15)
77TP40	**DUMMY** Dummy trim. **Includes blank Mortise dummy cylinder.** One sided. ANSI Function (02)

KEYWAY: 6-Pin solid brass “C” keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

- **(IC) INTERCHANGEABLE CORE**
  Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW.
- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

FINISHES
Architectural plated finishes.

Trim Selection

PULL DESIGN

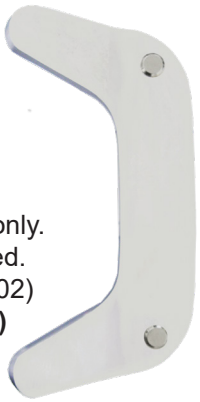
98GLSNL
- **IC98GLSNL**
- **ICSC98GLSNL**

Outside by pull and key.
Key retracts latch bolt.
ANSI Function (03)
(SPECIFY HANDING)



98GLSUP

Outside by pull only.
Pull when dogged.
ANSI Function (02)
(NON-HANDED)



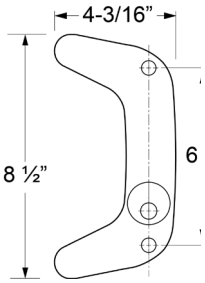
GLSRIMEOP

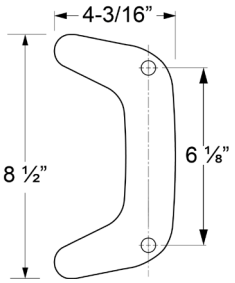
Outside cover plate only.
ANSI Function (01)

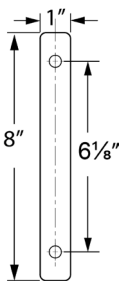


KEYWAY
Standard 6-Pin solid brass “C” keyway Rim Cylinder included.

FINISHES
Architectural plated finishes.







IMPORTANT:GLS9800 and GLSCVR9800 Trims shown on this page can be used on the 6600 Series Exit Devices

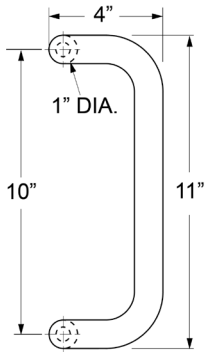


98GLSCYL-1



- **IC98GLSCYL-1**
- **ICSC98GLSCYL-1**





OFSTPUL-10
(REVERSIBLE)

KEYWAY: 6-Pin solid brass “C” keyway Rim Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

- **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

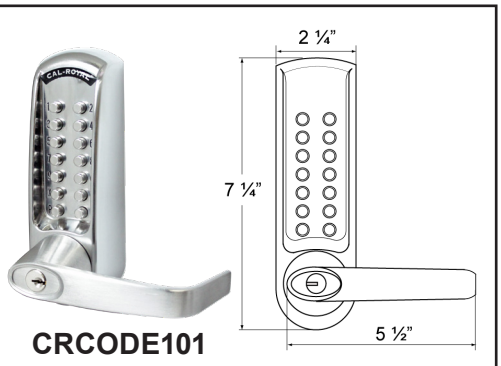
- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

Heavy Duty Digital Exit Trims

MECHANICAL CRCODE101

Features

- Heavy Duty
- Designed for 6600, 7700 and 9800 Series
- Grade 1 Rim and Surface Vertical Rod Exit Devices
- Single Code (up to 8000 code combinations)
- Weather-Resistant finish
- Code can be changed anytime without dismounting
- Full size, Non-Handed lever handle
- Easy Installation
- Reversible Handing

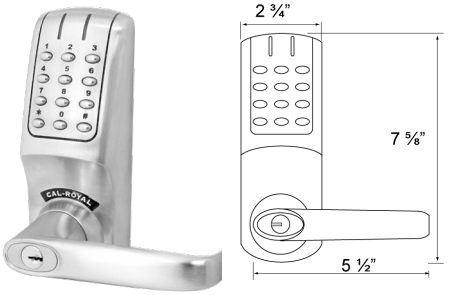


CRCODE101

ELECTRONIC CRCODE007

Features

- Dual mode for code free entry either mechanically by key or electronically thru the keypad
- Designed for 6600, 7700 and 9800 Series Rim Exit Devices
- Can store up to 90 different numeric user codes in 4, 5 or 6 digits
- Settings remain in memory when batteries are removed
- Audible alarm sounds after 3 incorrect attempts
- Connections available for remote release switch and automatic lock activation when linked to Fire alarm system
- Can be used as STOREROOM or CLASSROOM function
- Factory default set as STOREROOM function
- Fast and easy programming via master code



CRCODE007

CR5000 TRILOGY® KEYLESS EXIT TRIM

Features

- Clutch mechanism insures long life and durability
- Fingertip and / or Windows programmable
- 2000 User Codes: Master, manager, supervisor and users
- Real Time Clock for up to 40,000 Event Time / Date-Stamped Audit Trail
- Up to 500 Lock / Unlock Schedules (with Time Zone Support)
- Rugged 12-Button Metal Keypad
- Non-Handed; Fully Field Reversible
- Adaptable to most major manufacturers of standard RIM and IC RIM Cylinders
- Battery operated; uses 5 AA batteries
- Optional Interchangeable Core available with Best, Falcon & Arrow

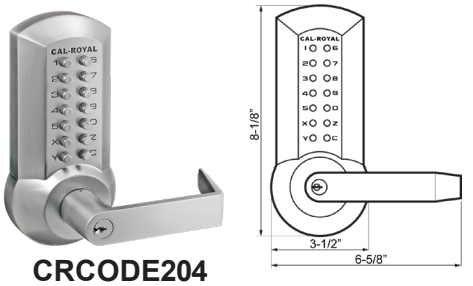


CR5000

MECHANICAL CRCODE204

Features

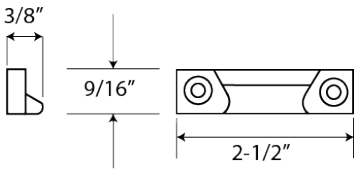
- Breakaway Lever Design
- Easy On-Door Code Change
- Weather Resistant
- Code-Free Option (Passage)
- Non-Handed
- 1 - 12 digit Length Code
- Thousands of Possible Code Combinations
- Single Code User
- Applications: Offices, Schools, Hospitals, Apartments, Hotels/Motels, Residential, Commerical and Public Buildings
- Door Thickness: 1 ¾" - 2"



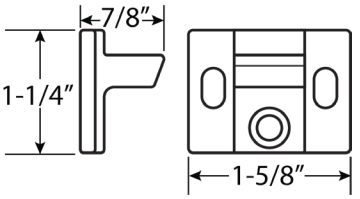
CRCODE204

Strike & Accessories

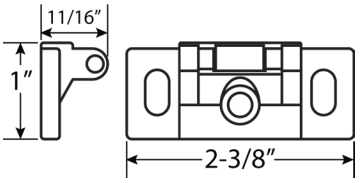
Strikes for use with 6660 and F6660 Vertical Rod Exit Device



221
Optional Handicap Bottom Strike. Applied to surface of floor or to a flat threshold. Standard packaging.

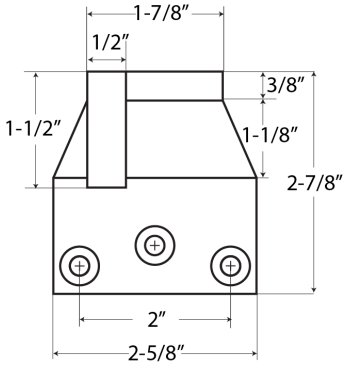


620
Top Strike. Standard packaging.



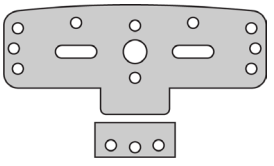
630
Bottom Strike. Applied to surface of floor or to a flat threshold. Standard packaging.

Overlapping Strikes

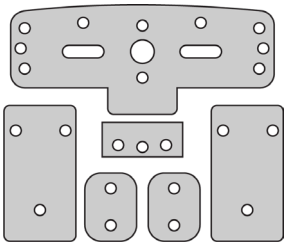


951
Surface applied.
Used on inactive leaf for device on active leaf of pair of doors without mullion.

GLASS BEAD SHIM KITS

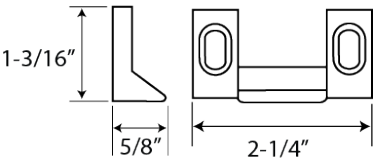


601 – for Rim type, ⅛" thick

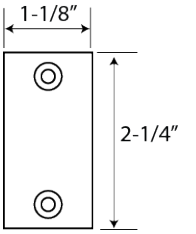


612 – for Vertical type, ⅛" thick

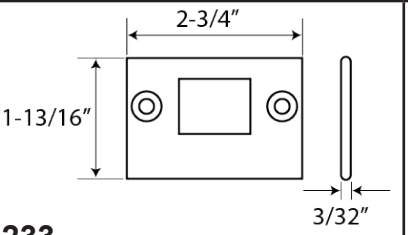
Additional Accessories



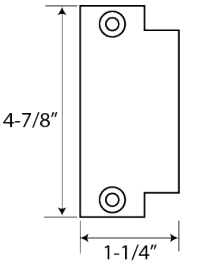
227
Applied to surface of stop.
No mortise required.



LFF
Lock front filler

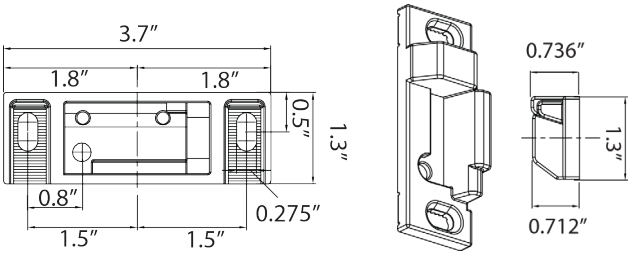


233
Bottom strike.
Flush mounting stainless steel.
Furnished with expansion shields.
Requires mortise in the floor.

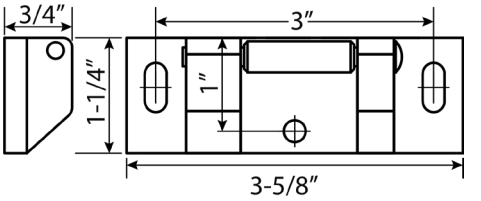


SF
Strike filler

Strike for use with 6600 Rim Type Exit Device



938
for 6600 surface applied. Standard packaging.



660
Roller Rim Strike for 6600 surface applied. Optional.

Additional Rods

EXTROD66-12 – Rod for 9' non-rated door
EXTROD66-24 – Rod for 10' non-rated door

Fire Exit Hardware Selector

FIRE EXIT HARDWARE RATING			UL DOOR RATING
APPLICATION	**MODEL #**	**MAXIMUM DOOR OPENING**	**(A) 3 HOUR**
SINGLE DOORS Rim type	F6600EO36 F6620EO48	4'0" X 8'0"	✓
PAIRS OF DOORS Two surface mounted standard vertical rod type or less bottom rod (LBR) application. Prefix **LBR** before Part # a) Swinging in same direction b) Swinging in opposite direction (double egress)	F6660V3684 X F6660V3684	8'0" X 7'0"	✓
	F6680V4896 X F6680V4896	8'0" X 8'0"	✓
PAIRS OF DOORS Two rim type with Mullion	F6600EO36 F6620EO48	8'0" X 8'0"	✓

All fire rated exit devices in all applications, are also labeled for (B) 1 ½ hour, (C) ¾ hour, (D) 1 hour, (E) ¾ hour.
All fire exit hardware meet UL10C and UBC 7-2-1997 codes.

HOW TO ORDER INFORMATION

Exit device model number

Panic grade

6600 EO36 Rim type 36" door
6620 EO48 Rim type 48" door
6660 V3684 Vertical rod type 36" x 84"
6680 V4896 Vertical rod type 48" x 96"
EXTROD66-12 – Rod for 9' non-rated door
EXTROD66-24 – Rod for 10' non-rated door

Fire grade

F6600 EO36 Rim type 36" door
F6620 EO48 Rim type 48" door
F6660 V3684 Vertical rod type 36" x 84"
F6680 V4896 Vertical rod type 48" x 96"

1) Specify exit device model number according to size of door.
2) Specify trim selection. For Interchangeable Core prefix "IC" before Part #. See trim selection pages.
3) For vertical rod devices specify LHR (Left Hand Reverse) or RHR (Right Hand Reverse) for convenience easily field reversible, otherwise shipped as LHR.
4) Specify finish: Alum, Duro, or US32D Stainless Steel.
5) On thru-bolt applications, fire rated vertical rod devices are packed with thru-bolts as standard feature. Thru-bolts are also available for other devices. To order thru-bolts add "SBN" to trim pack.

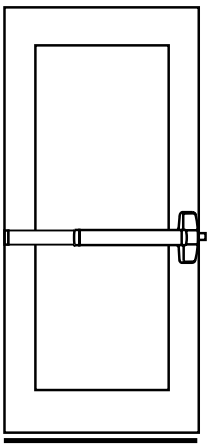
When ordering separately use following Part #

Cal-Royal Part # 357 —— Thru-Bolts for Rim Devices, 6 pcs / pack.
Cal-Royal Part # 369 —— Thru-Bolts for Vertical Rod Devices, 14 pcs / pack.
Cal-Royal Part # 363 —— Thru-Bolts for Rim Devices, 6 pcs / pack for 2 ¼" thick doors.
Cal-Royal Part # 375 —— Thru-Bolts for Vertical Rod Devices, 14 pcs / pack for 2 ¼" thick doors.

Ordering example: 6600E036 ALUM X SBN X ENT00L 26D
F6680V4896 US32D X ICSTR05L 26D

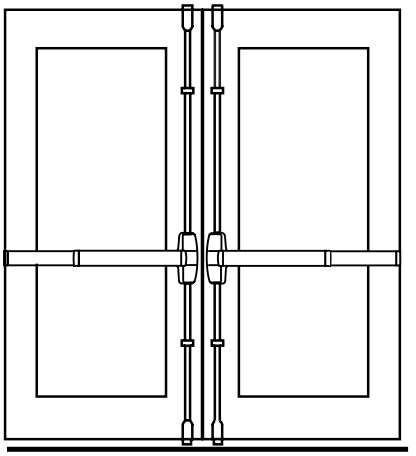
6600 Series Fire and Non-Fire Exit Devices
ANSI A156.3 Grade 1 Selector Chart

SINGLE DOOR



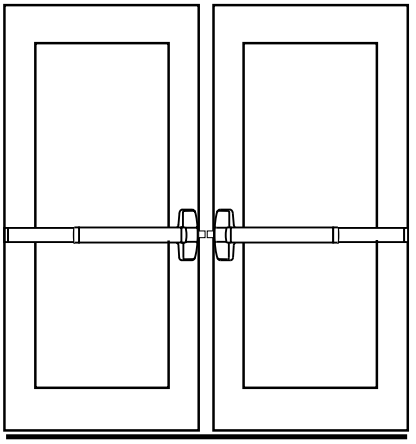
Vertical rod type or Rim type — Surface applied 2 point lock. Surface application.

PAIR OF DOORS WITHOUT MULLION



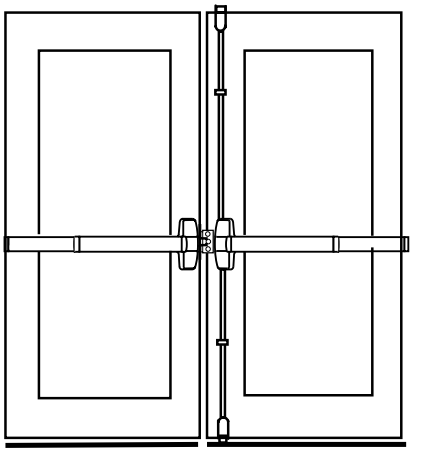
2 Vertical rod type — Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.

PAIR OF DOORS WITH MULLION



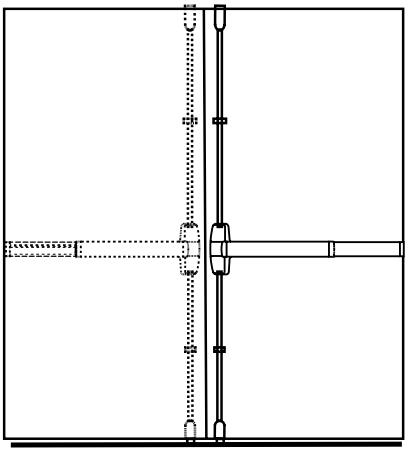
2 Rim type with mullion — Two independent active doors with full double door openings when required. Same direction.

PAIR OF DOORS WITHOUT MULLION



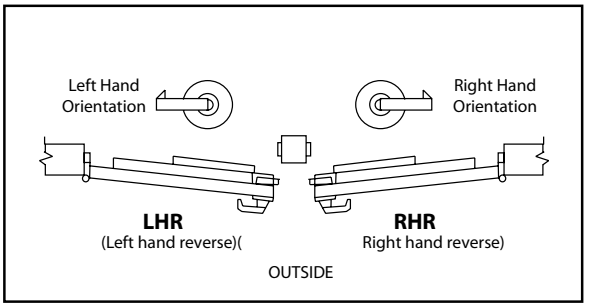
1 Vertical rod and 1 rim type — Both devices are surface applied. A coordinator and overlapping strike is recommended.

PAIR OF DOORS WITHOUT MULLION



2 Vertical rod type — Double egress surface applied. 2 point locking both doors opposite directions.

HANDING



CAL-ROYAL PRODUCTS, INC.

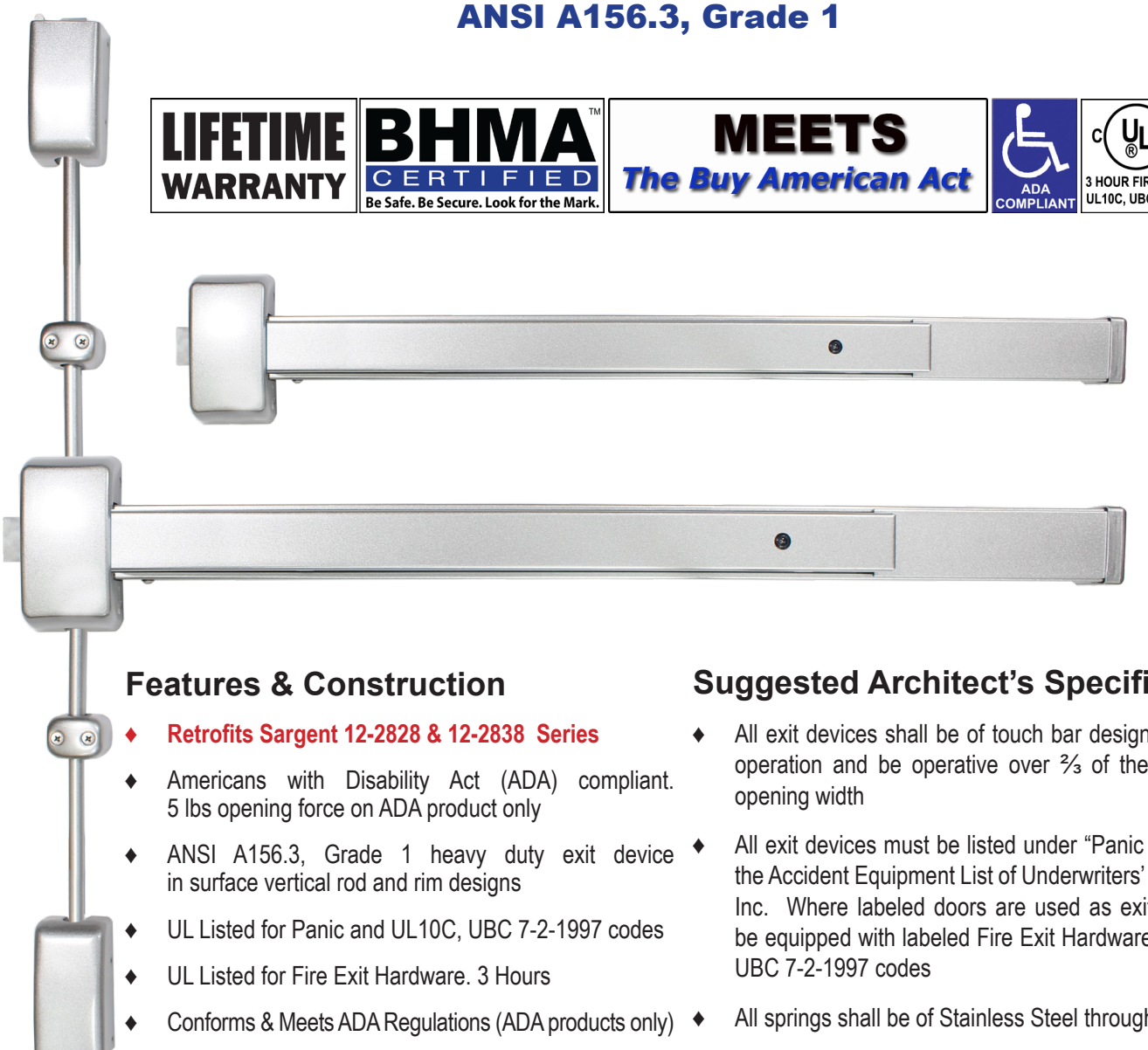
6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com * Email: sales@cal-royal.com

Exit Devices
Comparison Chart

RIM EXIT DEVICE CONVERSIONS	RIM	VERTICAL ROD	RIM	VERTICAL ROD	CONCEALED VERTICAL ROD	MORTISE RIM	NARROW STILE RIM	NARROW STILE CVR
ARROW	S1200	S1100	S3800 / 1800	S3700	S3600	S3900	S4803	S4601
CAL-ROYAL	6600 / A9800 / A7700	6660V / A9860V / A7760V	A2200 / 4400	A2260V	CVR6600/ MCVR9800 / WCVR9800 / MCVR7700 / WCVR7700	MR6600/ MR9800 / MR7700	GLS6600 / GLS9800 / GLS7700	GLSCVR6600 / GLSCVR9800 / GLSCVR7700
CORBIN / RUSSWIN	ED8200	ED8400	ED5400 / ED6000	ED4750	ED5800	ED5600	ED4200	ED4800
DETEX	V4000	---	10	20	70	30	V40NS	60
DORMA	8300	8400	9300	9400	9100	9500	AD4300	AD4100
PRECISION	5100	5200	2100 / 100	9800 / 200	2800	2300	2400	2600
SARGENT	2828	2727	8800 / 9898	8700	MD8600 / WD8600	8900	AD8500	AD8410
VON DUPRIN	98 / 99	9827 / 9927	98	9827	9947EO	9975EO	33A	3348
YALE	2100	2110	7100 / 1500	7110 / 1510	7120	7130	7250	7220

Distributed by:

A2200 & AF2200 Rim Type Panic and Fire Exit Devices (ADA)
A2260V & AF2260V Vertical Rod Panic and Fire Exit Devices (ADA)
ANSI A156.3, Grade 1



LIFETIME WARRANTY

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

MEETS
The Buy American Act

ADA COMPLIANT

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

Features & Construction

- **Retrofits Sargent 12-2828 & 12-2838 Series**
- Americans with Disability Act (ADA) compliant. 5 lbs opening force on ADA product only
- ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs
- UL Listed for Panic and UL10C, UBC 7-2-1997 codes
- UL Listed for Fire Exit Hardware. 3 Hours
- Conforms & Meets ADA Regulations (ADA products only)
- (A) label rating in pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- Uncompromising security and safety in single and double fire exit doors
- Chassis mounted unit construction
- Available in many different functions. Lever and escutcheon trims are grade 1 construction with clutch on rose trims. Escutcheon trims are rigid and covers 161 cut out.

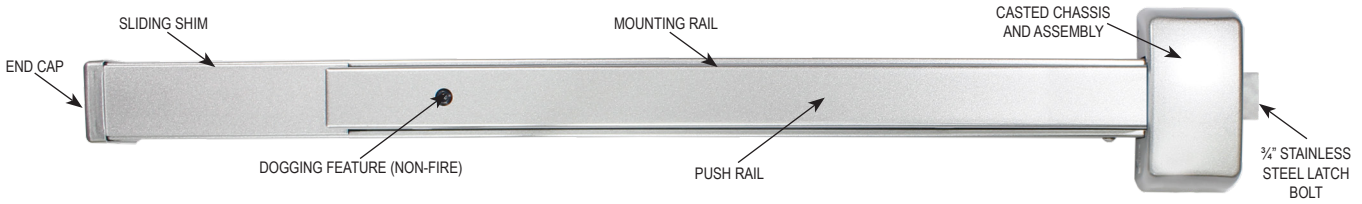
Suggested Architect's Specifications

- All exit devices shall be of touch bar design with smooth operation and be operative over ⅔ of the door's clear opening width
- All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes
- All springs shall be of Stainless Steel throughout
- All exit devices shall be of chassis mounted unit construction.
- All exit devices shall be ANSI A156.3, Grade 1

A2200 & AF2200 ADA Series

GRADE 1 Rim Type Exit Device

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | ADA COMPLIANT | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997



Specifications

For Doors..... 1 ¾" thick standard optional 2 ¼" thick. 4 ½" minimum stile width required for single or double door application using standard 239 strike and pull or lever trims

Chassis..... Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)

Cover..... Non-ferrous Alloy. Covers stock hollow metal doors with 161 cutout

Mounting..... Furnished standard with wood and machine screws. Available with thru-bolts on request. Thru-bolts are standard packaging on fire rated devices.

End Cap..... Steel construction

Alarm..... Available. See page 74

Hand..... Non handed, center hub. 2 ¾" backset

Latch Bolt..... Stainless Steel ¾" throw

Spring..... Stainless Steel throughout

ANSI Standard..... A156.3, Grade 1

Rail Assembly..... Heavy gauge steel, painted

Strike..... 239 packed standard (See strike page)

Dogging Feature..... Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available

Mullion..... Available

UL and ULC Listed..... A2200 Series for panic. AF2200 Series for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3-hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.

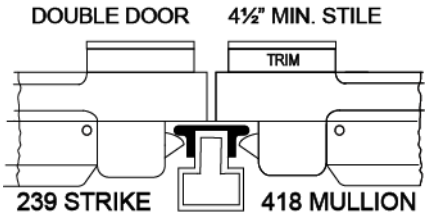
Finish..... Aluminum (Alum), Dark Bronze Duranodic (Duro), Gold

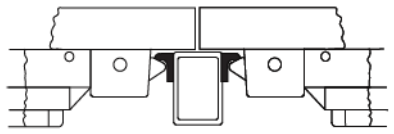
Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

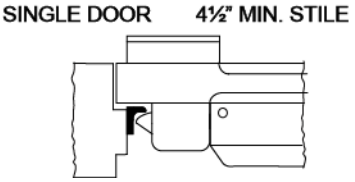
Americans with Disability Act (ADA) compliant 5 lbs opening force on ADA Series only

Refer to the Price List for Stock Sizes and Finishes

Minimum Stile Requirements
4" escutcheon trims & 4 ½" for Thumbpiece and rose trims







DIMENSIONS

Touchbar height to finished floor	41" (1041 mm) at center
Touchbar projection	
Neutral	2 ½" (64 mm)
Depressed	1 ¾" (45 mm)

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
A2200EO24 and AF2200EO24	20"	2"	22" to 24" door width
A2200EO32 and AF2200EO32	28"	6"	26" to 32" door width
A2200EO36 and AF2200EO36	32"	6"	30" to 36" door width
A2220EO48 and AF2220EO48	44"	12"	36" to 48" door width

A2260V & AF2260V ADA Series

GRADE 1 Vertical Rod Type Exit Device

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | ADA COMPLIANT | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997

Specifications

For Doors..... 1 ¾" thick standard optional 2 ¼" thick. 3 ¾" minimum stile width required for single door application. 3 ½" minimum stile width required for double door application. Lever trims available. 2 ¾" backset

Top & Bottom Chassis..... Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)

Cover..... Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out

Mounting..... Furnished standard with wood and machine screws. Thru-bolts are standard packaging on fire rated devices

End Cap..... Steel construction

Alarm..... Available. Prefix **"NALRM"** before MODEL #

Hand..... Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience

Latch Bolt & Spring..... Stainless steel

ANSI Standard..... A156.3, Grade 1

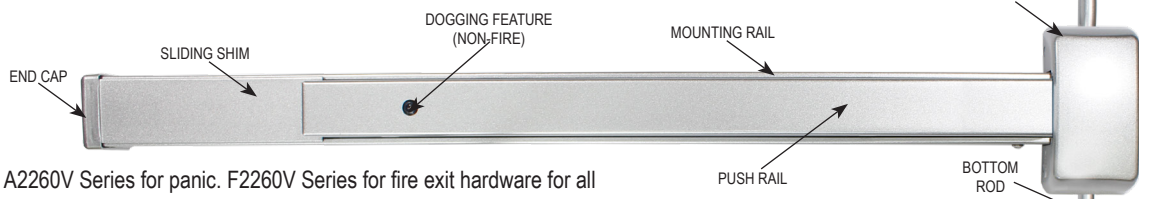
Rail Assembly..... Heavy gauge steel, painted

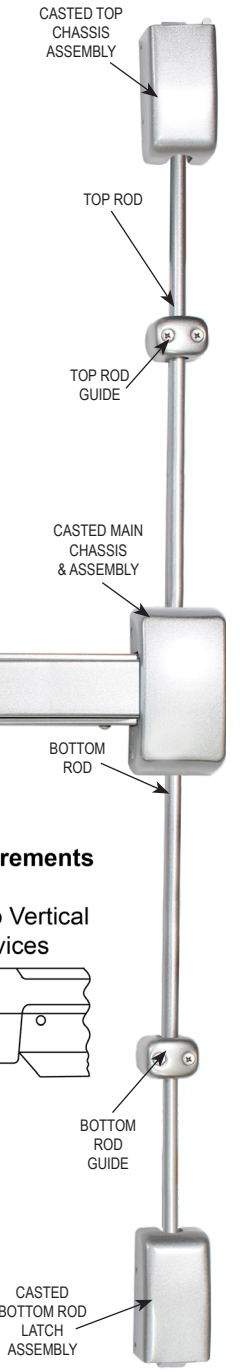
Strike..... See strike page

Dogging Feature..... Allen-type key furnished standard on non-fire labeled devices

Americans with Disability Act (ADA) compliant 5 lbs opening force on ADA Series only

Refer to the Price List for Stock Sizes and Finishes





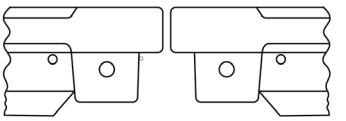
UL and ULC Listed..... A2260V Series for panic. F2260V Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.

Finish..... Aluminum (Alum), Dark Bronze Duranodic (Duro), Gold

Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

Minimum Stile Requirements

Double Door with Two Vertical Rod Type Exit Devices



3 ½" Min. Stile

DIMENSIONS

Touchbar height to finished floor	41" (1041 mm) at center
Touchbar projection Neutral Depressed	 2 ½" (64 mm) 1 ¾" (45 mm)
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 35 mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100 mm x 68 mm x 52 mm)
Fire grade bottom latch case	3 15/16 x 2 1/8" x 1 3/8" (100 mm x 54 mm x 42 mm)
Top and bottom rod length for 36" x 84" doors	Top rod 39 3/16" (995 mm), bottom rod 37 3/16" (945 mm)
Top and bottom rod length for 48" x 96" doors Vertical Rods	Top rod 51 3/16" (1300 mm), bottom rod 37 3/16" (945 mm) ½" (13 mm) Round tubing

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
A2210V2484, AF2210V2484	20"	2"	22" to 24" door width
A2260V3684, AF2260V3684, A2270V3284, AF2270V3284, A2290V3696, AF2290V3696, A2250V36120	32"	6"	30" to 36" door width
A2280V4896, AF2280V4896, A2240V48120	44"	12"	36" to 48" door width

ALBR2260V & ALBRF2260V ADA Series

GRADE 1 Vertical Rod Exit Device Less Bottom Rod (LBR)

LIFETIME WARRANTY | BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | ADA COMPLIANT | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997

Specifications

LBR..... No Bottom Strike. Free access for wheel chairs, stretcher and carts therefore eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts

For Doors..... 1 ¾" thick standard. 3 ¾" minimum stile width required for single door application. 3 ½" minimum stile width required for double door application. Lever trims available. 2 ¾" backset

Top Chassis..... Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)

Cover..... Non-ferrous Alloy. Covers stock hollow metal doors with 161 cutout

Mounting..... Furnished standard with wood and machine screws. Thru-bolts are standard packaging on fire rated devices

Alarm..... Available. Prefix "**NALRM**" before MODEL #

End Cap..... Steel Construction

Hand..... Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience

Latch Bolt, Spring..... Stainless Steel

Auxiliary Spring Latch..... Auxiliary spring loaded latchbolt is installed in the lower edge of the door, when exposed to fire latchbolt releases keeping the door closed and regulated

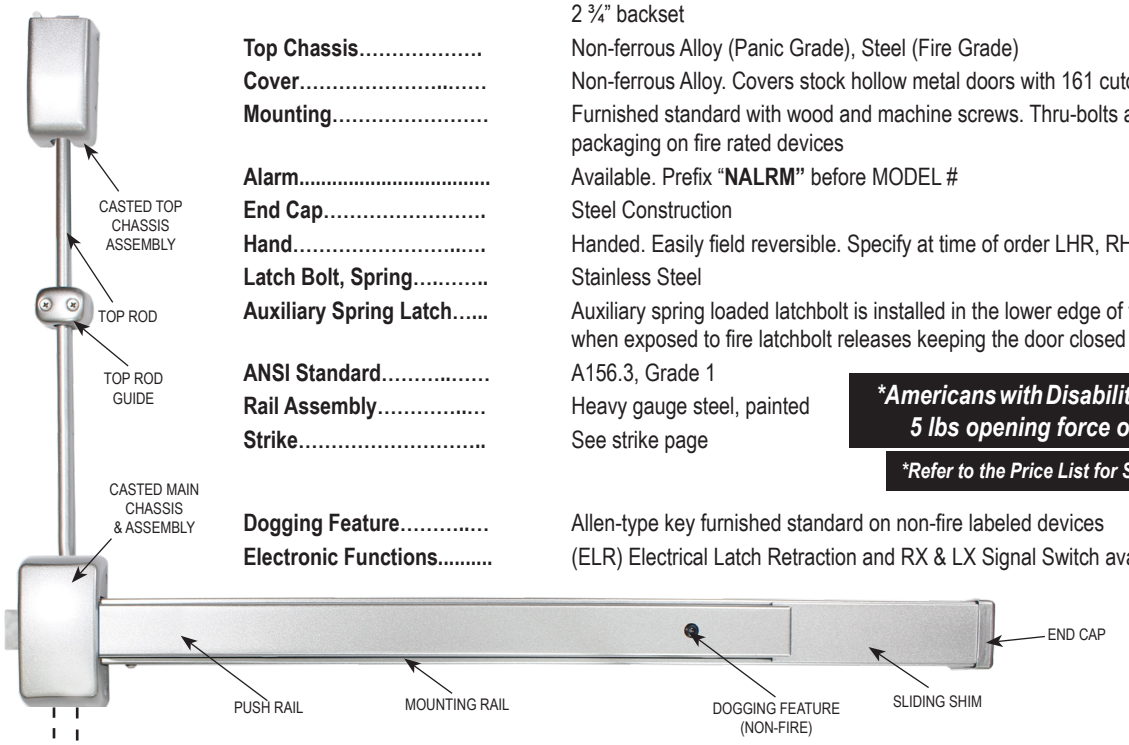
ANSI Standard..... A156.3, Grade 1

Rail Assembly..... Heavy gauge steel, painted

Strike..... See strike page

Americans with Disability Act (ADA) compliant 5 lbs opening force on ADA Series only

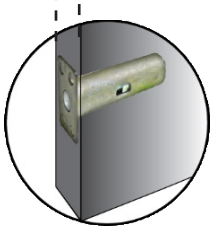
Refer to the Price List for Stock Sizes and Finishes



Dogging Feature..... Allen-type key furnished standard on non-fire labeled devices

Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

UL and ULC Listed..... All Series for panic. LBR Series for fire exit hardware for all types of 8' x 8' double doors including double egress for up to 3-hour metal, 1 ½ hour wood doors fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes



Auxiliary Fire Latch Assembly Included

DIMENSIONS

Touchbar height to finished floor	41" (1041 mm) at center
Touchbar projection	
Neutral	2 ½" (64 mm)
Depressed	1 ¾" (45 mm)
Panic grade top & bottom latch case	3 15/16" x 2 ⅛" x 1 ⅜" (100 mm x 54 mm x 35 mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100 mm x 68 mm x 52 mm)
Fire grade bottom latch case	3 15/16" x 2 ⅛" x 1 ⅜" (100 mm x 54 mm x 42 mm)
Top and bottom rod length for 36" x 84" doors	Top rod 39 3/16" (995 mm)
Top and bottom rod length for 48" x 96" doors	Top rod 51 3/16" (1300 mm)
Vertical Rods	½" (13 mm) Round tubing

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
ALBR2210V2484, **ALBR**F2210V2484	20"	2"	22" to 24" door width
ALBR2270V3284, **ALBR**F2270V3284	28"	6"	26" to 32" door width
ALBR2260V3684, **ALBR**F2260V3684, **ALBR**2290V3696, **ALBR**F2290V3696, **ALBR**2250V36120	32"	6"	30" to 36" door width
ALBR2280V4896, **ALBR**F2280V4896, **ALBR**2240V48120	44"	12	36" to 48" door width

Alarm Exit Hardware



Features

- 1, 3, 5-minute and continuous alarm type settings available
- ON and OFF power switch
- Alarm sound frequency is 120 db
- Alarm unit has an internal horn. When the push rail is depressed, the horn sounds to provide an audible means of signaling that the door has been opened and breached.
- The key switch to turn alarm off is a standard 1 ¼" cylinder with "C" keyway. The alarm operates on one standard 9-volt transistor battery. When battery is weak the horn will emit an intermittent signal.
- Alarmed units are supplied with a micro switch, which monitors the push rail and the latch bolt and outside trim (if available) for foolproof security on rim devices
- Alarm unit has a signal OC output that can be linked to external alarm control systems
- Easy removal of the alarm unit without the need to dismount the exit device for battery maintenance
- Unit includes "**EMERGENCY EXIT ONLY ALARM WILL SOUND**" decal for application on door or unit

Rim Type Exit Devices

NALRMA2200EO36	Alarm rim type 36" door (panic grade)
NALRMA222048	Alarm rim type 48" door (panic grade)
FNALRMA220036	Alarm rim type 36" door (fire grade)
FNALRMA222048	Alarm rim type 48" door (fire grade)

Vertical Rod Type Exit Devices

Prefix "**NALRM**" before MODEL #.

Power Supplies

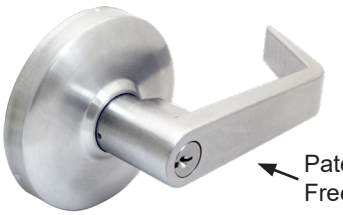
Power supplies for electrified exit devices are available.
See pages 97-98.

Trim Selection

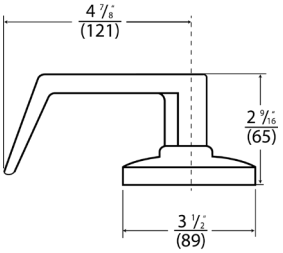
CLUTCH CYLINDRICAL LEVER

Non-Handed Grade 1 (Clutch Style)
Cylindrical body hardened steel heavy duty tailpiece. For 1 ¾" and 2 ¼" doors.
Prefix **"THI"** before Part # for 2 ¼" door thickness.
Available for fire and non-fire rated rim and vertical rod exit devices.
Rose diameter 3 ½", lever length 4 ¾". Fits and covers 161 cutout.
Finishes: US26D, US26, US3, US4, US10B, US10BE, US1

GN DESIGN ONLY: ENT00L, ICENT00L, STR05L, ICSTR05L, PAS30L, DUM40L IN US32D FINISH, ALL STAINLESS STEEL EXTERIOR. INCLUDES GRADE 304SS LEVER AND ROSE



GN DESIGN



ENT00L or ● **ICENT00L or** ● **ICSCENT00L4** ● **SARICENT00L** (Sargent) ● **RUSICENT00L** (Corbin / Russwin) ● **YALICENT00L** (Yale)	**ENTRANCE** Key locks and unlocks lever. Operates as CLASSROOM FUNCTION. ANSI Function (08)
8000K	Ball Knob Keylock
STR05L or ● **ICSTR05L or** ● **ICSCSTR05L4** ● **SARICSTR05L** (Sargent) ● **RUSICSTR05L** (Corbin / Russwin) ● **YALICSTR05L** (Yale)	**STOREROOM** Key operates lever, otherwise always locked. ANSI Function (09)
PAS30L	**PASSAGE** Trim always operable and free. ANSI Function (14)
DUM40L	**DUMMY** Dummy trim. One sided ANSI Function (02)

KEYWAY: 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

● **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW.**

● **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **SCHLAGE, CORBIN/RUSSWIN, SARGENT and YALE Full Size Format** Interchangeable Core

	KEYWAY	+ DESIGN	+ FUNCTION	+ FINISH
BEST, FALCON, & ARROW -	IC	AT	ENT00L	
SCHLAGE -	ICSC	SPA	STR05L	
CORBIN/RUSSWIN -	RUSIC	TUB*	PAS30L	
SARGENT -	SARIC	AUG	DUM40L	
YALE -	YALIC	DAN		
		LON		
		TAC		

HOW TO ORDER IN LFIC

Example: ICSCENT00L4 US26D
in "SPA" design is
ICSCSPAENT00L4 US26D

Note: Yale LFIC is only available in GN, AT, SPA lever designs | TUB* is only available in SFIC.

Other Lever Trim Designs

● Available in SFIC & LFIC



AT

● Available in SFIC & LFIC



SPA

● Available in SFIC



TUB

● Available in SFIC & LFIC
except YALE LFIC



AUG

● Available in SFIC & LFIC
except YALE LFIC



DAN

● Available in SFIC & LFIC
except YALE LFIC



LON

● Available in SFIC & LFIC
except YALE LFIC



TAC



8000K

Anti-Microbial Coating available in US26D or US32D Only. Use part # "**ANTB-TRIM**" when ordering.

Trim Selection
RIGID LEVER ESCUTCHEON

CONSTRUCTION

- Grade 1, thru-bolted design, rigid non-clutch, Non-handed design.
- Easily field reversible.
- Hardened steel heavy duty tailpiece. Available for fire and non-fire rated rim and vertical rod exit devices.
- Standard 6-Pin Schlage "C" Mortise Cylinder included



FINISHES

- Powder coated aluminum (alum)
- Powder coated dark bronze duranodic (duro)
- Powder coated gold

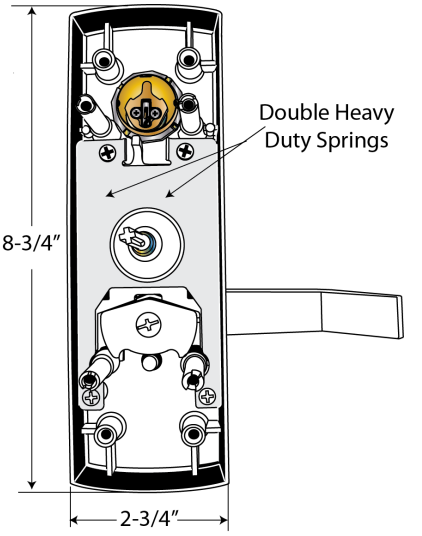
DOOR THICKNESS

Standard 1 ¾". For 2 ¼" thick door use additional PART # TAIL3.

ESCUTCHEON DIMENSIONS

2 ¾" width X 8 ¾" length. Lever length: 4 ¾".

Fits and covers 2 ⅛" 161 cutout



NESC2200 or ICNESC2200 or ICSCNESC2200	**ENTRANCE** Rigid Entrance, key locks or unlocks escutcheon trim ANSI Function (08) Operates as classroom function
NESC2205 or ICNESC2205 or ICSCNESC2205	**STOREROOM** Rigid Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked ANSI Function (09)
NESC2230	**PASSAGE** Trim always operable and free ANSI Function (14)
NESC2240	**DUMMY** Dummy Escutcheon trim ANSI Function (02)

KEYWAY: 6 pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

- **(IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

- **(ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

FOR ELECTRIFIED TRIM OPTIONS SEE PAGE 78

Trim Selection

PULL DESIGN

2200PULNL
IC2200PULNL
ICSC2200PULNL



FOR RIM DEVICES ONLY
Outside by pull and key.
Key retracts latch bolt.
ANSI Function (03).
Covers 161 cutout.
Standard Rim Cylinder available in "C" 6-Pin and optional Kwikset KW keyways included.

2200 NL
IC2200NL
ICSC2200NL



FOR RIM DEVICES ONLY
Outside by pull and key.
Key retracts latch bolt.
ANSI Function (03).
Covers 161 cutout. Standard Rim Cylinder available in "C" 6-Pin and optional Kwikset KW keyways included.

2200DTP



Outside by pull only.
Pull when dogged.
ANSI Function (02)
Covers 161 cutout.

2200EOP



Outside by plate only.
ANSI Function (01)
Covers 161 cutout.

8000K ENTRANCE



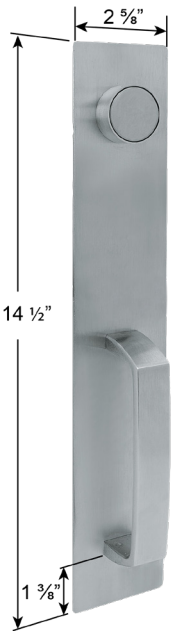
Key locks and unlocks knob.
Operates as classroom function. ANSI Function (08)

THUMBPIECE TRIM
(OPERATES ON RIM & VERTICAL ROD DEVICES)

KEYED



DUMMY



- **THP00 or ICTHP00 or ICSCTHP00** — **ENTRANCE**
  Key locks or unlocks thumbpiece. (Operates as classroom function)
  ANSI Function (05)
- **THP05 or ICTHP05 or ICSCTHP05** — **STOREROOM**
  Key unlocks thumbpiece, thumbpiece retracts latch bolt, otherwise always locked.
  ANSI Function (06)
- **THP30** — **PASSAGE**
  Trim always operable and free.
  ANSI Function (15)
- **THP40** — **DUMMY**
  Dummy trim. **Includes blank Mortise dummy cylinder.**
  ANSI Function (02)

FINISHES
Powder coated Aluminum, Dark Bronze (DURO), Gold for PULL and THUMBPIECE TRIMS. US32D,3,10B for 8000K knob trim.

KEYWAY: 6 pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

- **(IC) INTERCHANGEABLE CORE**
  Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW.
- **(ICSC) INTERCHANGEABLE CORE**
  Indicates function available with **Schlage Full size format** Interchangeable Core. Corbin, Sargent and Yale format also available.

DOOR THICKNESS
Standard 1 ¾". For 2 ¼" thick door use additional PART # TAIL 7.

Heavy Duty Mechanical Push Button Lock

MECHANICAL CRCODE204

Features

- Breakaway Lever Design
- Easy On-Door Code Change
- Weather Resistant
- Code-Free Option (Passage)
- Non-Handed
- 1 - 12 digit Length Code
- Thousands of Possible Code Combinations
- Single Code User
- Applications: Offices, Schools, Hospitals, Apartments, Hotels/Motels, Residential, Commercial and Public Buildings
- Door Thickness: 1 ¾" - 2"
- 2-year limited warranty



Electrified Lever Trim

Cal-Royal's electrified lever trim provides remote locking and unlocking capabilities using industry safety standards. The solenoid can be energized from a distant controller, thus allowing access control of the opening.

The control of stairwells in high-rise buildings is a common application for this trim, where electric pullback of the exit device's latch bolt is cost prohibitive or not required. This is especially practical in applications where fire / life safety codes require a "fail-safe" condition which is not an option with electrified latch pullback devices. Because the current draw is quite low there is no need for a more expensive power supply to provide the surge current.

Features

- Continuous duty solenoids used to insure trouble-free operation
- No hassle 3-Year Warranty
- Requires additional door prep



Options

- Available Fail Safe (Electrically Locked) or Fail Secure (Electrically Unlocked)
- Voltage options – 12V or 24V (AC / DC)
- Request to Enter Switch (REE) available
- CRU2 – Current Reduction Unit to improve solenoid life in "continuously on" applications

Specifications

Solenoid.....Continuous Duty

Operating Voltage....12 or 24V AC / DC ± 10%
(must specify 12 or 24 volts when ordering)

Amperage.....250mA @ 12V / 150mA @ 24V

Coil Resistance.....12V = 49Ω / 24V = 159Ω

To order, Specify:

OPTIONS: FAIL SAFE (**FS**)
FAIL SECURE (**FSE**)

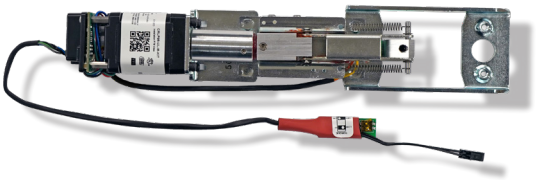
ITEM#	DESCRIPTION
FS12 ESC22	FS12 FAIL-SAFE OPTION 12V AC / DC
FS24 ESC22	FS24 FAIL-SAFE OPTION 24V AC / DC
FSE12 ESC22	FSE12 FAIL-SECURE OPTION 12V AC / DC
FSE24 ESC22	FSE24 FAIL-SECURE OPTION 24V AC / DC

(ELR) Electric Latch Retraction

Our motor driven electrified latch pullback exit device allows for remote keyless access control in high occupancy / high traffic conditions where exit devices are required. Common applications include conditions such as hospitals, airports, schools, churches and they are commonly specified in applications that require automatic door openers. The device may be continuously energized allowing for a push / pull condition if desired.

Features:

- Available on 2200 Series, including rim, surface vertical rod exit devices both fire and non fire-rated devices
- MM4 Smart Module: On board diagnostics with audible feedback for adjustment and power issues
- "PTS" (Push to Set Technology): 5 second electronic adjustment for easy post installation adjustment
- Electric dogging rated for continuous duty - Auto retraction if dogged push pad is pulled from position
- Low Current Draw - Field switchable to "High Torque" mode
- Up to 300' wire run with (2) 18ga wire - Long wire runs provides installer with convenience of placing the locking device power supply in a centralized location; i.e. the same closet as the access panel
- 8' cable with Quick Connect for MM4 module to easily connect to power supply lead
- 3-year "No Hassle" warranty



Specifications:

- Voltage – 24 to 28V DC
- System protection – unit shutdown when voltage exceeds 28V DC
- Average In-rush Current – 900mA; Average Hold Current - 215mA
- PTS adjustment – approx. 1/4"
- Wire run: 300' with 18ga wire

INSTALLED ON THE EXIT DEVICE: USE FLR2298 ADD

FOR FIELD INSTALLATION USE FLR2298 KIT

To Order:

- **Must Specify: Exit Device item #** and **FLR2298 ADD** as two separate line items.
  For Example: A2200EO36 US32D with ELR option, order "**A2200EO36 US32D", and "FLR2298 ADD"** as two line items.
- ***Use FLR2298 KIT if ordered separately.***
- **Optional Switch** (RX or LX) is also available and should be added as a **3rd line item** as needed.

Note: When using electrified hinge, you must use prefix ELELRn + hinge item code, where "n" is equal to number of wires. For example: ELELR4 + BB31.

MUST USE CRP POWER SUPPLIES TO HONOR WARRANTY (see pages 97-98)

Signal Switch RX and LX

RX (request to exit) signal switch is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the touch bar.
LX (latch bolt monitoring) signal switch monitors both egress and access of an opening. When the latch bolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the latch bolt position.
LX and **RX** switches can be combined.
LX, RX switches can be used in combination with ELR (electric latch retraction) option.

Specifications

RX or **LX**.....Switch rated 0.5 amps @ 24V AC / DC resistive
Low current **RX** or **LX**.Switch rated 0.5 amps @ 24V AC / DC resistive

for Factory Installed. To Order, Specify:

RX22/98.....Request to Exit switch for field installation
LX2200.....Latch bolt Monitoring switch for field installation
LXRX2200.....Latch bolt Monitoring / Request to Exit Combination

KABA® - Cal-Royal Combination

Cal-Royal's Exit hardware devices combined with **Kaba InSync CP** provide a variety of alternatives when addressing community access control. Recommended for applications such as controlling building entry openings, common area rooms and doors with exit devices. **InSync CP** are available as stand-alone battery operated door locks designed to work in conjunction with **Cal-Royal's Exit Hardware Devices.**

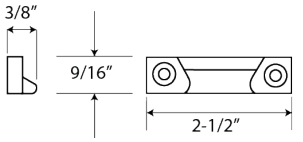


KABA InSync CP is not sold through CAL-ROYAL. For inquiries and information on InSync line of products please visit ***www.kabamultihousing.com***

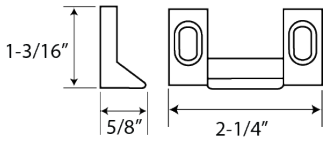
Strikes & Accessories

Strikes for use with A2260V Vertical Rod Exit Device
All strikes are black nylon coated

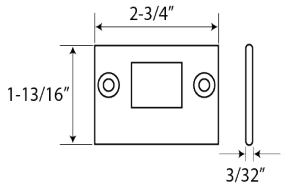
221
Standard for A2260V.
Applied to surface of floor or to a flat threshold.
Standard packaging.



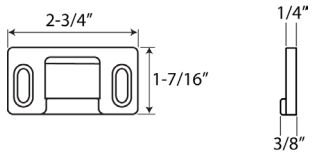
227
Applied to surface of stop.
No mortise required.
Standard packaging.



233
Bottom strike. Alternate bottom strike. Flush mounting stainless steel. Furnished with expansion shields.
Requires mortise in the floor.

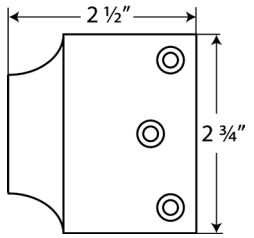


RIM238
Strike for 2 ⅜”
Backset Application



Overlapping Strikes

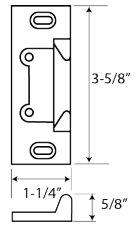
N251
Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion



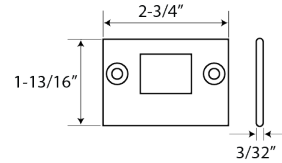
Additional Rods

Vertical rod for 10 feet high doors.
Available on non-fire rated vertical rod devices only.
Use Part # **VRRD10**

Strikes for use with AF2260V Vertical Rod Fire Exit device



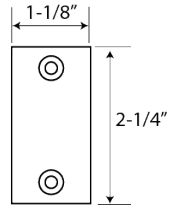
245
Surface applied for AF2260V.
Standard packaging.

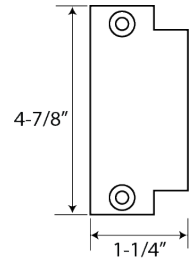


233
Bottom strike for AF2260V. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.
Standard packaging.

Additional Accessories

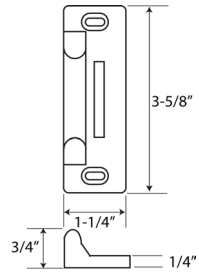
LFF
Lock front filler





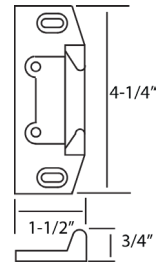
SF
Strike filler

Strikes for use with A2200 Rim Type Exit Device



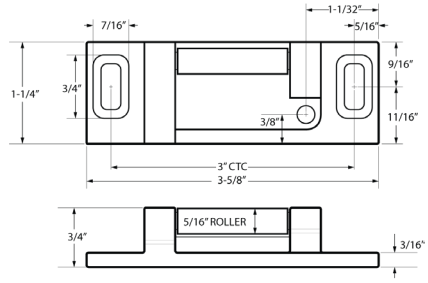
239
For A2200 surface applied.
Standard packaging

Strikes for use with AF2200 Rim Type Fire Exit Device



245
For AF2200 surface applied.
Standard packaging.

ADA Roller Strike for A2200, AF2200, A2260V, and AF2260V Fire and Non-Fire Exit Devices



945 (NON-FIRE RATED)
945F (FIRE RATED)

Strikes & Accessories

CYLINDER DOGGING KITS

TO ORDER: Prefix "**CD**" before PART #. Available for all 2200 Series devices except fire exit hardware. Cylinder dogging with mortise cylinder is located on the mounting insert lock bolt in retracted position.

To order **KIT ONLY**: use PART # 36CD2200 for 36" and 48CD2200 for 48" devices. Specify finish.

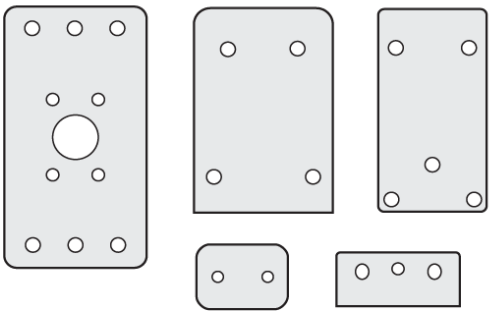
KEYWAYS: 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/ Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa , Kaba and ***Cal-Royal HSK*** High Security Cylinders.



GLASS BEAD SHIM KITS

401 – For rim type, ⅛" thick
406 – For vertical type, ⅛" thick
412 – For fire rated type, ⅛" thick

When exit devices are used with shim kits with outside trim, spindle length thumbpiece and thru bolt length must be increased accordingly.



STANDARD HEX DOGGING KIT



(For non-rated Panic Bar)
PART # **DOGGINGKIT** (2200 Series)

Fire Exit Hardware Selector

FIRE EXIT HARDWARE RATING			UL DOOR RATING
APPLICATION	**MODEL #**	**MAXIMUM DOOR OPENING**	**(A) 3 HOUR**
SINGLE DOORS Rim type	AF2200EO36 AF2220EO48	4'0" X 8'0"	✓
PAIRS OF DOORS Two surface mounted standard vertical rod type or less bottom rod (LBR) application. Prefix **LBR** before Part # a) Swinging in same direction b) Swinging in opposite direction (double egress)	AF2260V3684 X AF2260V3684	8'0" X 7'2"	✓
	AF2290V3696 X AF2290V3696 AF2280V4896 X AF2280V4896	8'0" X 8'0"	✓
PAIRS OF DOORS Two rim type with Mullion	AF2200EO36 AF2220EO48	8'0" X 8'0"	✓

All fire rated exit devices in all applications, are also labeled for (B) 1 ½ hour, (C) ¾ hour, (D) 1 hour, (E) ¾ hour.
All fire exit hardware meet UL10C and UBC 7-2-1997 codes.
Includes ADA Series.

HOW TO ORDER INFORMATION

Exit device model number

Panic grade

A2200 EO36 Rim type 36" door
A2220 EO48 Rim type 48" door
A2260 V3684 Vertical rod type 36" x 84"
A2290 V3696 Vertical rod type 36" x 96"
A2280 V4896 Vertical rod type 48" x 96"
VRRD10 – Rod for 10' non-rated door
A2250 V36120 Vertical rod type 36" x 120"
A2240 V48120 Vertical rod type 48" x 120"

Fire grade

AF2200 EO36 Rim type 36" door
AF2220 EO48 Rim type 48" door
AF2260 V3684 Vertical rod type 36" x 84"
AF2290 V3696 Vertical rod type 36" x 96"
AF2280 V4896 Vertical rod type 48" x 96"

1) Specify exit device model number according to size of door.
2) Specify trim selection. For interchangeable core prefix "IC" before part #.
3) For vertical rod devices specify LHR (Left Hand Reverse) or RHR (Right Hand Reverse) for convenience easily field reversible, otherwise shipped as LHR.
4) Specify finish:
   Alum - Powder coated to match US26D
   Duro - Powder coated to match US10B
   Gold - Powder coated to match US4, US3
5) On thru bolt applications, fire rated vertical rod devices are packed with thru-bolts as standard feature. Thru-bolts are also available for other devices. To order thru-bolts add "SBN" to trim pack.

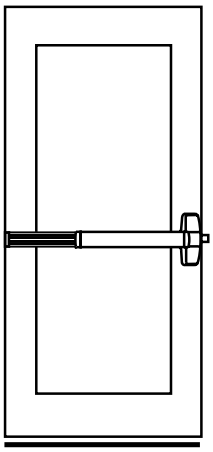
When ordering separately use following part #

Cal-Royal Part # 357 —— Thru-bolts for rim devices, 6 pcs / pack.
Cal-Royal Part # 369 —— Thru-bolts for vertical rod devices, 14 pcs / pack.
Cal-Royal Part # 363 —— Thru-bolts for rim devices, 6 pcs / pack for 2 ¼" thick doors.
Cal-Royal Part # 375 —— Thru-bolts for vertical rod devices, 14 pcs / pack for 2 ¼" thick doors.

Ordering example: A2200E036 ALUM X SBN X ENT00L 26D
AF2280V4896 DURO X ICSTR05L 10B

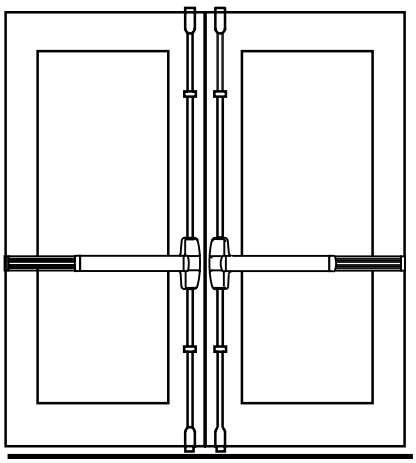
2200 Series
Fire and Non-Fire Exit Devices
ANSI A156.3 Grade 1 Selector Chart

SINGLE DOOR



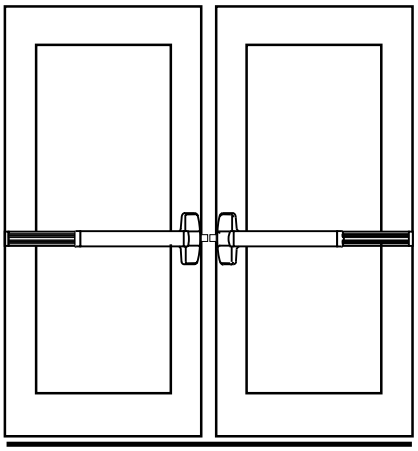
Vertical rod type or Rim type — Surface applied 2 point lock. Surface application.

PAIR OF DOORS WITHOUT MULLION



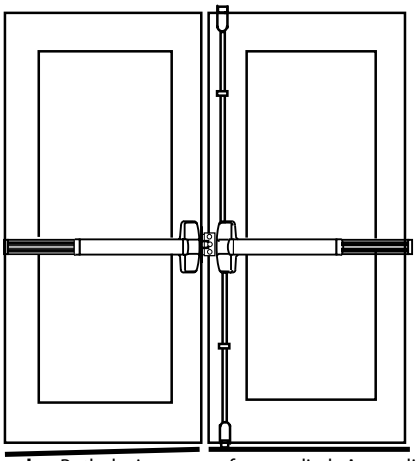
2 Vertical rod type — Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.

PAIR OF DOORS WITH MULLION



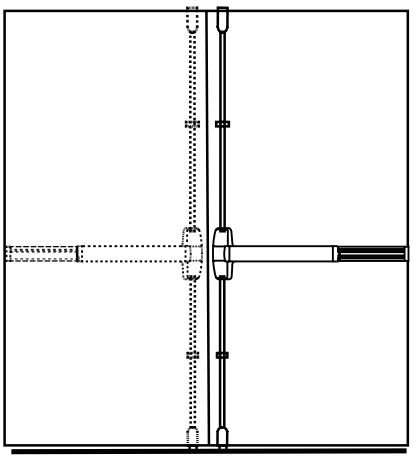
2 Rim type with mullion — Two independent active doors with full double door openings when required. Same direction.

PAIR OF DOORS WITHOUT MULLION



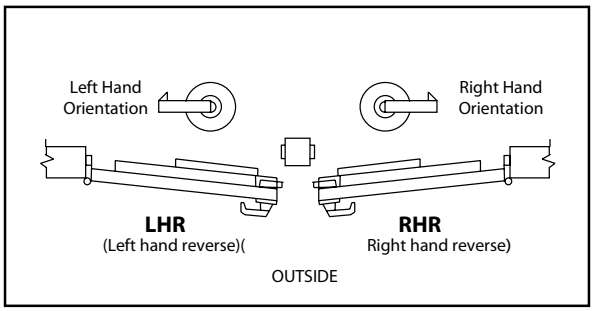
1 Vertical rod and 1 rim type — Both devices are surface applied. A coordinator and overlapping strike is recommended.

PAIR OF DOORS WITHOUT MULLION



2 Vertical rod type — Double egress surface applied. 2 point locking both doors opposite directions.

HANDING



CAL-ROYAL PRODUCTS, INC.
6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com * Email: sales@cal-royal.com

Exit Devices
Comparison Chart

RIM EXIT DEVICE CONVERSIONS	RIM	VERTICAL ROD
ARROW	S3800 / 1800	S3700
CAL-ROYAL	A2200 / 4400	A2260V
CORBIN/RUSSWIN	ED5400 / ED6000	ED4750
DETEX	10	20
DORMA	9300	9400
PRECISION	2100 / 100	9800 / 200
SARGENT	8800 / 9898	8700
VON DUPRIN	98	9827
YALE	7100 / 1500	7110 / 1510

5000 & F5000 Rim Type Panic And Fire Exit Devices
ANSI A156.3, Grade 2

3 HOUR FIRE RATED
UL10C, UBC7-2-1997



Features & Construction

- ANSI A156.3, Grade 2 heavy duty exit device in surface vertical rod and rim designs
- UL Listed for Panic and ULC10C, UBC 7-2-1997 codes
- UL Listed for Fire Exit Hardware. 3 hours
- Conforms and Meets ADA Regulations
- (A) label rating on pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- Uncompromising security and safety in single and double fire exit doors
- Chassis mounted unit construction
- Available in standard functions. Lever and knob trims are grade 2 construction with optional clutch freewheeling mechanism. Rose covers 161 cut out

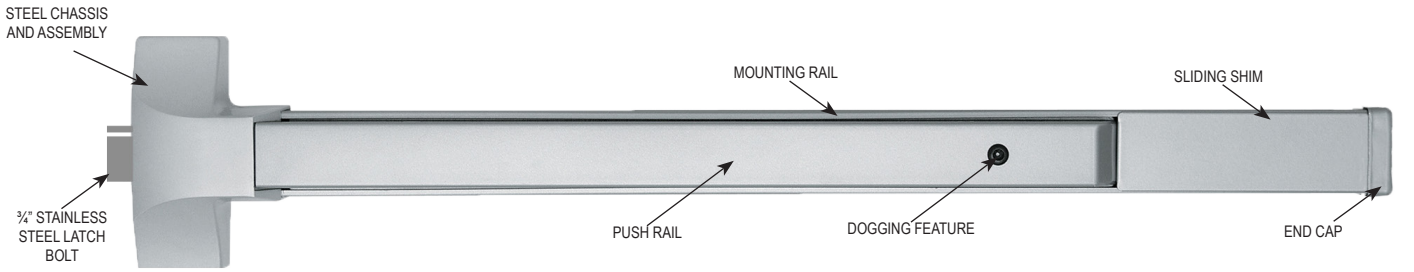
Suggested Architect's Specifications

- All exit devices shall be of touch bar design with smooth operation and be operative over ⅔ of the door's clear opening width
- All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes
- All exit devices shall be of chassis mounted unit construction

5000 & F5000 Series

GRADE 2 Rim Type Exit Device

3 HOUR FIRE RATED
UL10C, UBC7-2-1997



Specifications

For Doors..... 1 ¾" thick standard 3 ¾" minimum stile width required for single or double door application using standard 938 strike and pull or lever trims

Chassis..... Steel (Panic Grade), steel (Fire Grade)

Cover..... Covers stock hollow metal doors with 161-cutout

Mounting..... Furnished standard with wood and machine screws.
Available with thru-bolts on request.
Thru-bolts are standard packaging on fire rated devices

End Cap..... Steel construction

Hand..... Non-handed, center hub

Latch Bolt..... Stainless steel ¾" throw

Spring..... Steel throughout

ANSI Standard..... A156.3, Grade 2

Rail Assembly..... Heavy gauge steel, painted

Strike..... 938 packed standard (See strike page)

Dogging Feature..... Allen-type key furnished standard on non-fire labeled devices

Mullion..... Available

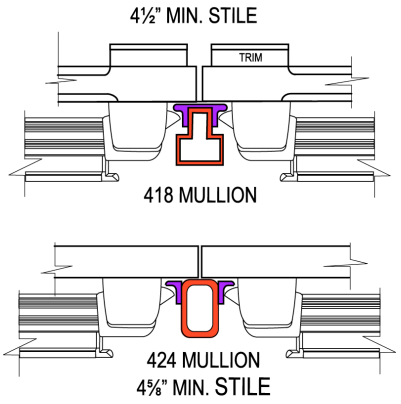
UL and ULC Listed..... 5000 Series for panic. F5000 Series for fire exit hardware for all types of 3' x 7' single doors and 6' x 7' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes

Finish..... Aluminum (ALUM), Stainless Steel (US32D)

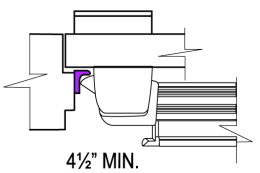
Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**

Minimum Stile Requirements
4" escutcheon trims and
4 ½" for thimbpiece and rose trims

DOUBLE DOOR



SINGLE DOOR



DIMENSIONS			
Touchbar height to finished floor	41" (1041 mm) at center		
Touchbar projection			
Neutral	2 ½" (64 mm)		
Depressed	1 ¾" (45 mm)		

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
5000EO36 and F5000EO36	32"	6"	30" to 36" door width
5500EO48 and F5500EO48	39"	12"	31" to 48" door width

T5000 & TF5000 Rim Type Panic And Fire Exit Devices

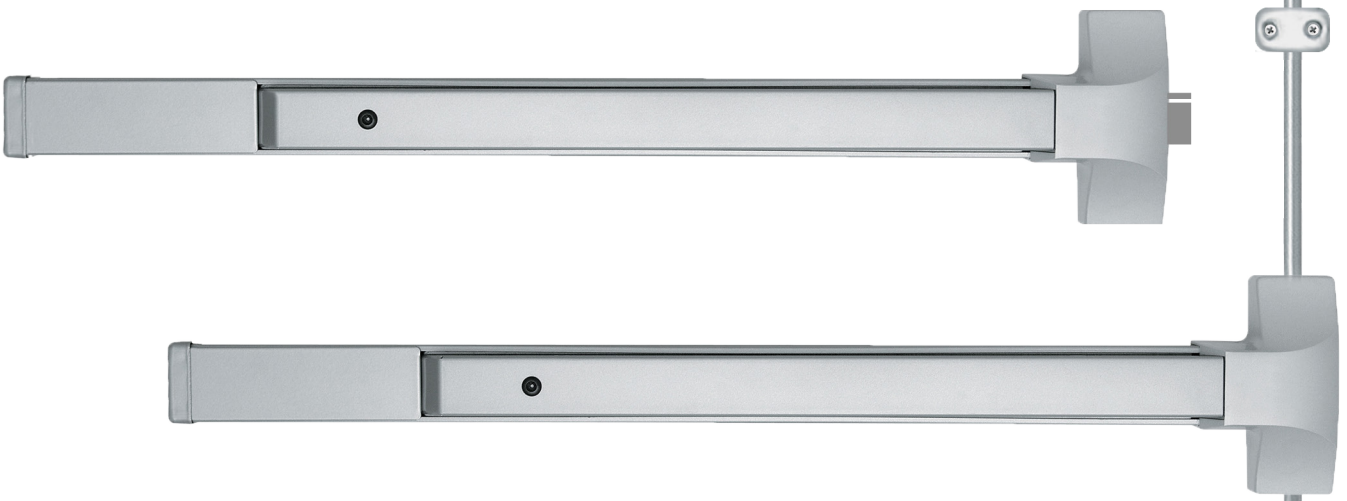
T5000V & TF5000V Vertical Rod Panic And Fire Exit Devices

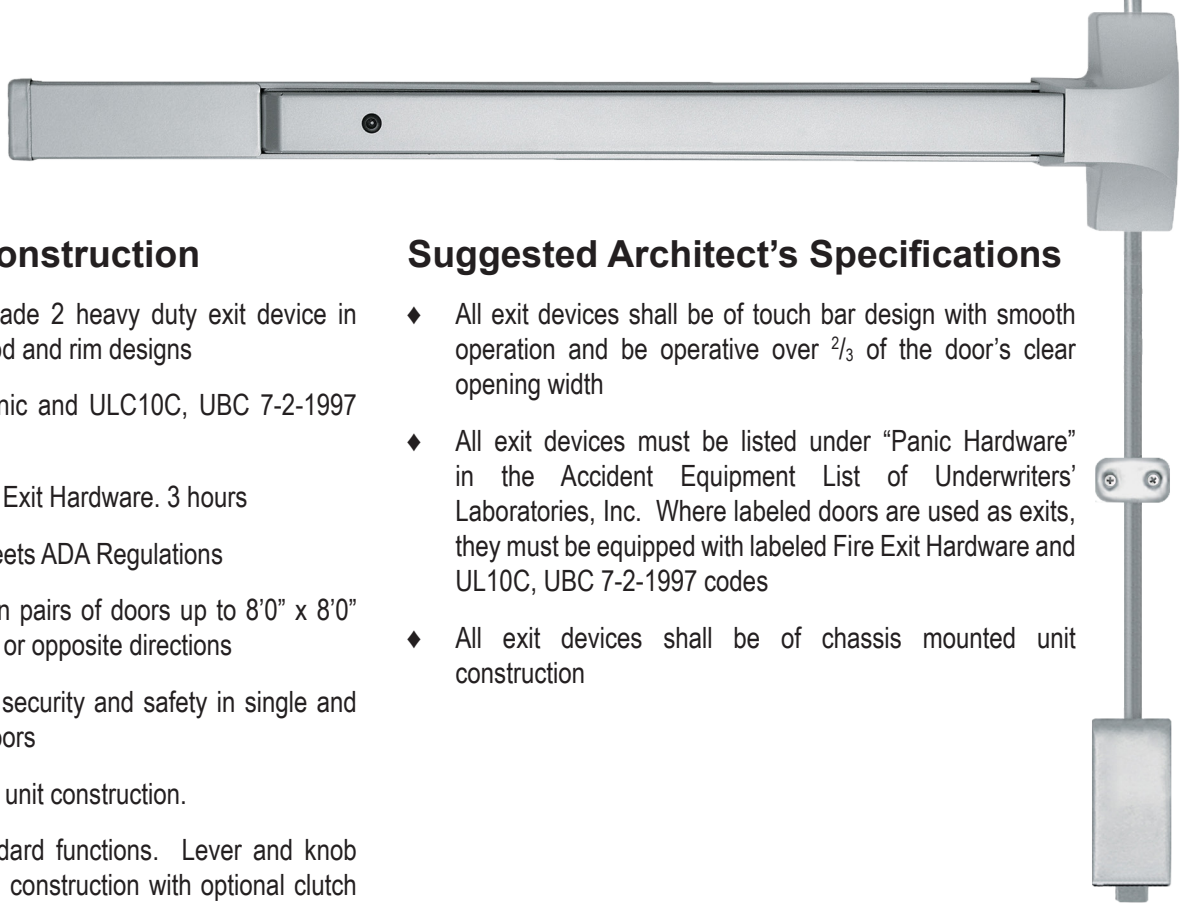
MADE IN TAIWAN

ANSI A156.3, Grade 2

MEETS
The Buy American Act

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997





Features & Construction

- ANSI A156.3, Grade 2 heavy duty exit device in surface vertical rod and rim designs
- UL Listed for Panic and ULC10C, UBC 7-2-1997 codes
- UL Listed for Fire Exit Hardware. 3 hours
- Conforms and Meets ADA Regulations
- (A) label rating on pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- Uncompromising security and safety in single and double fire exit doors
- Chassis mounted unit construction.
- Available in standard functions. Lever and knob trims are grade 1 construction with optional clutch freewheeling mechanism. Rose covers 161 cut out

Suggested Architect's Specifications

- All exit devices shall be of touch bar design with smooth operation and be operative over $^{2}/_{3}$ of the door's clear opening width
- All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes
- All exit devices shall be of chassis mounted unit construction

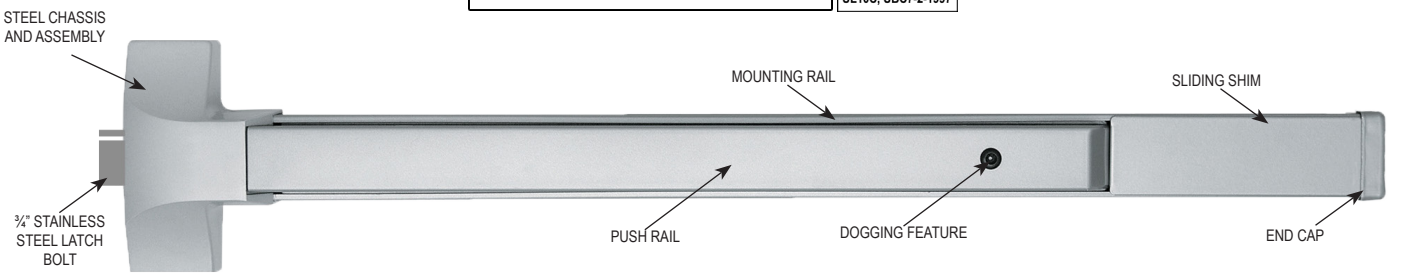
T5000 & TF5000 Series

MADE IN TAIWAN

GRADE 2 Rim Type Exit Device

MEETS
The Buy American Act

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997



Specifications

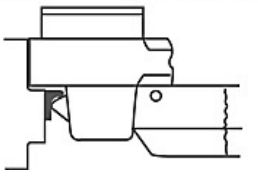
For Doors	1 ¾" thick standard. 3 ¾" minimum stile width required for single or double door application using standard 938 strike and pull or lever trims
Chassis	Steel (Panic Grade), Steel (Fire Grade)
Cover	Covers stock hollow metal doors with 161-cutout
Mounting	Furnished standard with wood and machine screws. Available with thru-bolts on request. Thru-bolts are standard packaging on fire rated devices
End Cap	Steel construction
Hand	Non-handed, center hub
Latch Bolt	Stainless Steel ¾" throw
Spring	Steel throughout
ANSI Standard	A156.3, Grade 2
Rail Assembly	Heavy gauge steel, painted
Strike	938 packed standard (See strike page)
Dogging Feature	Allen-type key furnished standard on non-fire labeled devices
Mullion	Available
UL and ULC Listed	T5000 Series for panic. TF5000 Series for fire exit hardware for all types of 3' x 7' single doors and 6' x 7' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes
Finish	Aluminum (ALUM), Stainless Steel (US32D)
Anti-Microbial Coating	Available on US32D only. Use part # **ANTB-EXIT**

DIMENSIONS	
Touchbar height to finished floor	41" (1041 mm) at center
Touchbar projection	
Neutral	2 ½" (64 mm)
Depressed	1 ¾" (45 mm)

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
T5000EO36 and TF5000EO36	32"	6"	30" to 36" door width
T5500EO48 and TF5500EO48	39"	12"	31" to 48" door width

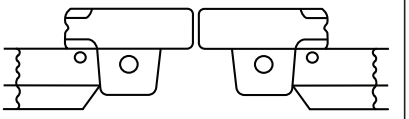
Minimum Stile Requirements
4" escutcheon trims and
4 ½" for thumbpiece and rose trims

SINGLE DOOR 4 ½" MIN. STILE



Minimun Stile Requirements

Double Door with Two Vertical Rod Type Exit Devices



3 ½ MIN. STILE

T5000V & TF5000V Series

MADE IN TAIWAN

GRADE 2 Vertical Rod Type Exit Device

MEETS
The Buy American Act

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

Specifications

For Doors..... 1 ¾" thick standard. 3 ¾" minimum stile width required for single door application. 3 ½" minimum stile width required for double door application. Lever and knob trims available

Top & Bottom Chassis..... Steel (Panic Grade), Steel (Fire Grade)

Cover..... Covers stock hollow metal doors with 161 cutout

Mounting..... Furnished standard with wood and machine screws. Thru-bolts are standard packaging on fire rated devices

End Cap..... Steel construction

Hand..... Non-Handed

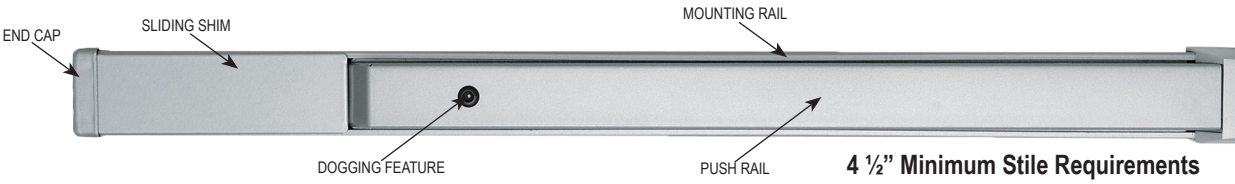
Latch Bolt & Spring..... Stainless steel

ANSI Standard..... A156.3, Grade 2

Rail Assembly..... Heavy gauge steel, painted

Strike..... See strike page

Dogging Feature..... 5mm Allen-type key furnished standard on non-fire labeled devices



4 ½" Minimum Stile Requirements

UL and ULC Listed..... T5000V Series for panic. TF5000V Series for fire exit hardware for all types of 6' x 7' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.

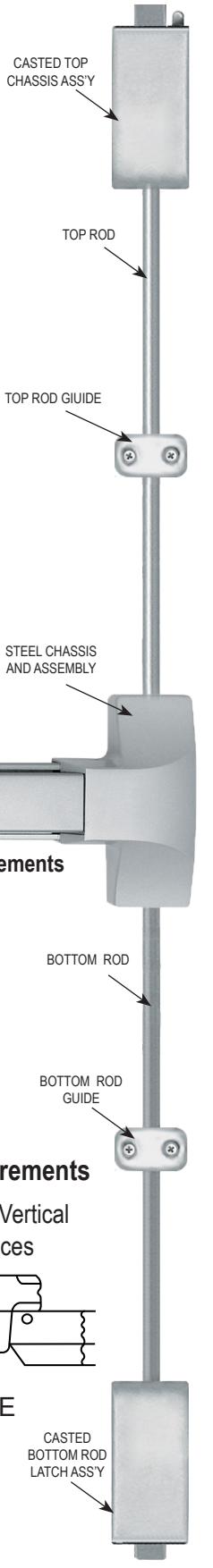
Finish..... Aluminum (Alum), US32D Stainless Steel

Anti-Microbial Coating..... Available on US32D only. Use part # **ANTB-EXIT**

Door size..... T5000V3684 and TF5000V3684 for 36" x 84" doors

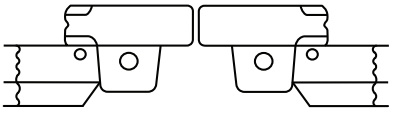
DIMENSIONS	
Touchbar height to finished floor	41" (1041 mm) at center
Touchbar projection	
Neutral	2 ½" (64 mm)
Depressed	1 ¾" (45 mm)
Panic grade top & bottom latch case	8 1⁄16" x 2 ¾" x 2 ½"(205 mm x 70 mm x 63 mm)
Fire grade top latch case	3 15⁄16" x 2 11/16" x 2 1/16 (100 mm x 68 mm x 52 mm)
Fire grade bottom latch case	3 15⁄16" x 2 ⅛" x 1 ⅜" (100 mm x 54 mm x 35 mm)
Top and bottom rod length for 36" x 84" doors	Top rod 38" (965 mm), Bottom rod 37 ½" (953 mm)
Vertical rods	½" (13 mm) Round tubing

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
T5000V3684 TF5000V3684	32"	6"	36" to 84" door width



Minimum Stile Requirements

Double Door with Two Vertical Rod Type Exit Devices

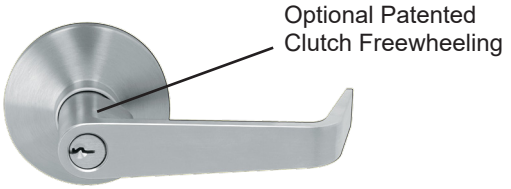


3 ½ MIN. STILE

Trim Selection

LEVER DESIGN

Non handed (Optional Clutch)
Tubular body hardened steel heavy duty tailpiece. For 1 ¾" doors. Available for fire and non-fire rated rim and vertical rod exit devices.
Rose diameter 3 ½", lever length 4 ¾". Fits and covers 161 cutout.
Finishes: US26D, 10B, 3



8000L ENTRANCE
Key locks and unlocks lever.
Operates as classroom function.
ANSI Function (08)

CLU5000L CLUTCH FREE WHEELING (ENTRANCE)
Key locks and unlocks lever.
Operates as classroom function.
ANSI Function (08)

8000S STOREROOM
Key retracts latchbolt, otherwise always locked.
ANSI Function (09)

8000PAS PASSAGE
Lever always operable and free.
ANSI Function (14)

8000DUM DUMMY
Dummy trim. One sided.
ANSI Function (02)

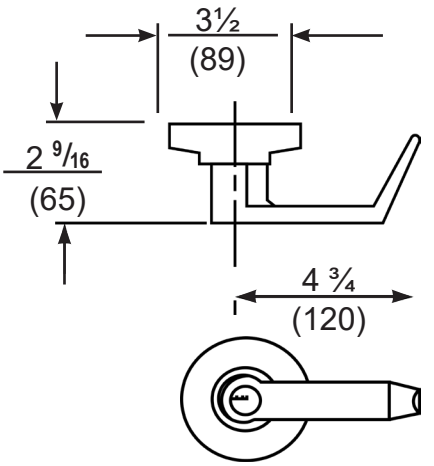
KNOB DESIGN

Non handed
Tubular body hardened steel heavy duty tailpiece. For 1 ¾" doors. Available for fire and non-fire rated rim and vertical rod exit devices.
Rose diameter 3 ½". Fits and covers 161 cutout.
Finishes: US32D, 10B, 3



8000K ENTRANCE
Key locks and unlocks lever.
Operates as classroom function.
ANSI Function (08)

8000KSTR STOREROOM
Key retracts latchbolt, otherwise always locked.
ANSI Function (09)



KEYWAY: 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

PULL DESIGN

FOR RIM DEVICES ONLY
Outside by pull and key.
Key retracts latchbolt.
ANSI Function (03)
Covers 161 cutout.

FINISHES
Powder Coated Aluminum (ALUM)

5000NL



5000DTP



Outside by pull only.
Pull when dogged.
ANSI Function (02)
Covers 161 cutout.

5000EOP



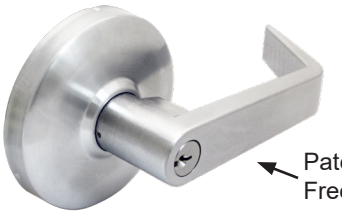
Outside by plate only.
ANSI Function (01)
Covers 161 cutout.

Optional Grade 1 Trims

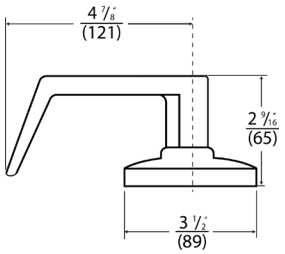
CLUTCH CYLINDRICAL LEVER

Non-Handed Grade 1 (Clutch Style)
Cylindrical body hardened steel heavy duty tailpiece. For 1 ¾" and 2 ¼" doors.
Prefix **"THI"** before Part # for 2 ¼" door thickness.
Available for fire and non-fire rated rim and vertical rod exit devices.
Rose diameter 3 ½", lever length 4 ¾". Fits and covers 161 cutout.
Finishes: US26D, US26, US3, US4, US10B, US10BE, US1

GN DESIGN ONLY: ENT00L, ICENT00L, STR05L, ICSTR05L, PAS30L, DUM40L IN US32D FINISH, ALL STAINLESS STEEL EXTERIOR. INCLUDES GRADE 304SS LEVER AND ROSE



GN DESIGN



ENT00L or **ICENT00L or** **ICSCENT00L4** **SARICENT00L** (Sargent) **RUSICENT00L** (Corbin / Russwin) **YALICENT00L** (Yale)	**ENTRANCE** Key locks and unlocks lever. Operates as CLASSROOM FUNCTION. ANSI Function (08)
STR05L or **ICSTR05L or** **ICSCSTR05L4** **SARICSTR05L** (Sargent) **RUSICSTR05L** (Corbin / Russwin) **YALICSTR05L** (Yale)	**STOREROOM** Key operates lever, otherwise always locked. ANSI Function (09)
PAS30L	**PASSAGE** Trim always operable and free. ANSI Function (14)
DUM40L	**DUMMY** Dummy trim. One sided ANSI Function (02)

KEYWAY: 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and ***Cal-Royal HSK*** High Security Cylinders.

(IC) INTERCHANGEABLE CORE: Interchangeable Core locks will accept compatible 6 or 7-Pin cores with **BEST, FALCON and ARROW.**

(ICSC) INTERCHANGEABLE CORE: Indicates function available with **SCHLAGE, CORBIN/RUSSWIN, SARGENT and YALE Full Size Format** Interchangeable Core

	KEYWAY	+ DESIGN	+ FUNCTION	+ FINISH
BEST, FALCON, & ARROW - SCHLAGE - CORBIN/RUSSWIN - SARGENT - YALE -	IC ICSC RUSIC SARIC YALIC	AT SPA TUB* AUG DAN LON TAC	ENT00L STR05L PAS30L DUM40L	

HOW TO ORDER IN LFIC

Example: ICSCENT00L4 US26D in "SPA" design is ICSCSPAENT00L4 US26D

Note: Yale LFIC is only available in GN, AT, SPA lever designs | TUB* is only available in SFIC.

Other Lever Trim Designs

Available in SFIC & LFIC



AT

Available in SFIC & LFIC



SPA

Available in SFIC



TUB

Available in SFIC & LFIC **except YALE LFIC*



AUG

Available in SFIC & LFIC **except YALE LFIC*



DAN

Available in SFIC & LFIC **except YALE LFIC*



LON

Available in SFIC & LFIC **except YALE LFIC*

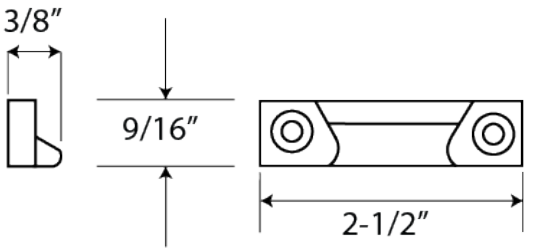


TAC

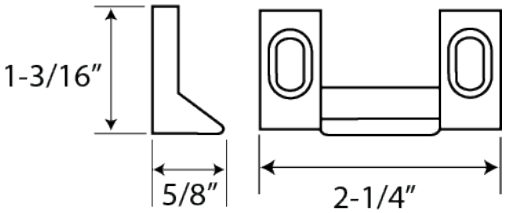
Anti-Microbial Coating available in US26D or US32D Only. Use part # "**ANTB-TRIM**" when ordering.

Strikes & Accessories

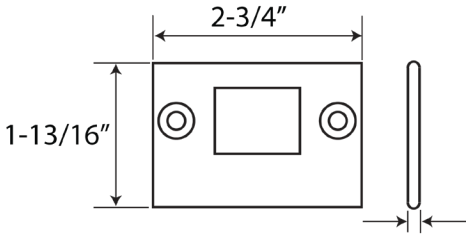
Strikes for use with T5000V vertical rod exit device
All strikes are black nylon coated



221
Standard for T5000V. Applied to surface of floor or to a flat threshold. Standard packaging.



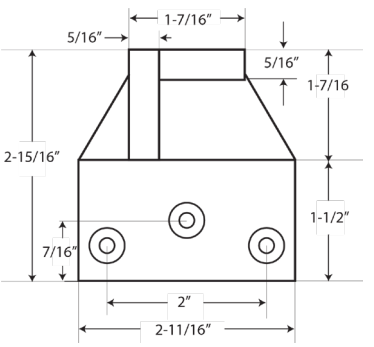
227
Applied to surface of stop. No mortise required. Standard packaging.



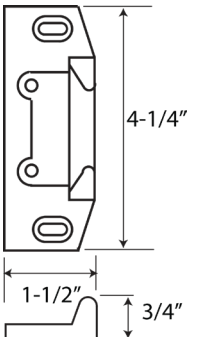
233
Bottom strike for TF5000V.
Flush mounting stainless steel. Furnished with expansion shields.
Requires mortise in the floor. Standard packaging.

Overlapping Strikes

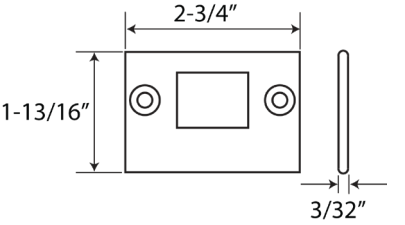
254
Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion.



Strikes for use with TF5000V vertical rod fire exit device

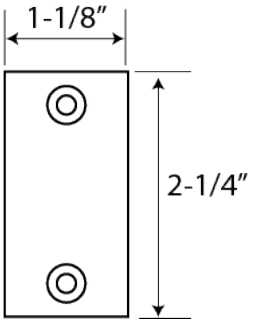


245
Surface applied for TF5000V.
Standard packaging.

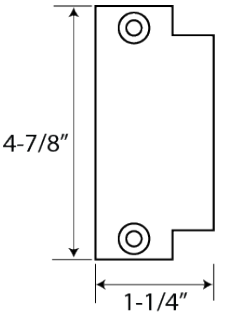


233
Bottom strike for TF5000V. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.
Standard packaging.

Additional Accessories



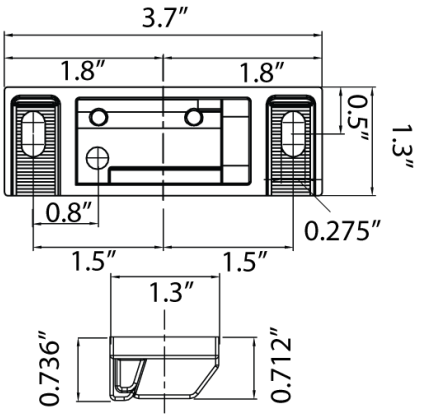
LFF
Lock front filler



SF
Strike filler

Strike for use with T5000 and TF5000 rim type exit devices

938
For T5000 & TF5000 surface applied.
Standard packaging



Fire Exit Hardware Selector

FIRE EXIT HARDWARE RATING			UL FIRE DOOR RATING
APPLICATION	**MODEL #**	**MAXIMUM DOOR OPENING**	**(A) 3 HOUR**
SINGLE DOORS Rim type	TF5000EO36	3'0" X 7'0"	✓
PAIRS OF DOORS Two surface mounted standard vertical rod type	TF5000V3684 X TF5000V3684	6'0" X 7'0"	✓
a) Swinging in same direction b) Swinging in opposite direction (double egress)	TF5000V3684 X TF5000V3684	6'0" X 7'0"	✓
PAIRS OF DOORS Two rim type with Mullion	TF5000EO36	6'0" X 7'0"	✓

All fire rated exit devices in all applications, are also labeled for (B) 1 ½ hour, (C) ¾ hour, (D) 1 hour, (E) ¾ hour.
All fire exit hardware meet UL10C and UBC 7-2-1997 codes.

HOW TO ORDER INFORMATION
Exit device model number

Panic grade

T5000 E036 Rim type 36" door

T5000 V3684 Vertical rod type 36" x 84"

Fire grade

TF5000 E036 Rim type 36" door

TF5000 V3684 Vertical rod type 36" x 84"

1) Specify exit device model number according to size of door.

2) Specify trim selection.

3) Non-Handed

4) Specify finish:
Alum - Powder coated to match US26D
US32D Stainless Steel

5) On thru-bolt applications, fire rated vertical rod devices are packed with thru-bolts as standard feature. Thru-bolts are also available for other devices. To order thru-bolts add "SBN" to trim pack.

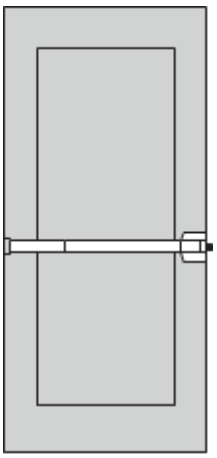
When ordering separately use following part #

Cal-Royal Part # 357 —— Thru-bolts for rim devices, 6 pcs / pack.
Cal-Royal Part # 369 —— Thru-bolts for vertical rod devices, 14 pcs / pack.

Ordering example: T5000E036 ALUM X 8000L 26D
T5000V 3684 32D X CLU5000L 26D

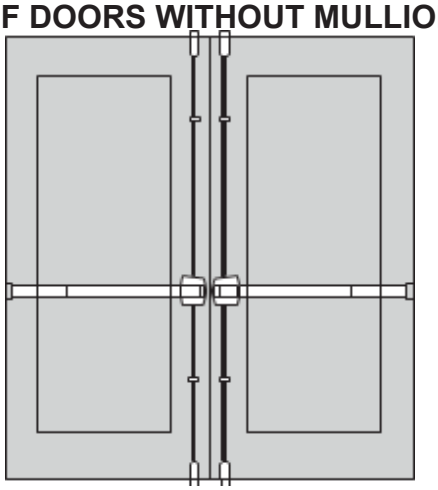
T5000 & TF5000 Rim Type
T5000V & TF5000V Vertical Rod
Fire and Non-Fire Exit Devices
ANSI A156.3 Grade 2 Selector Chart

SINGLE DOOR



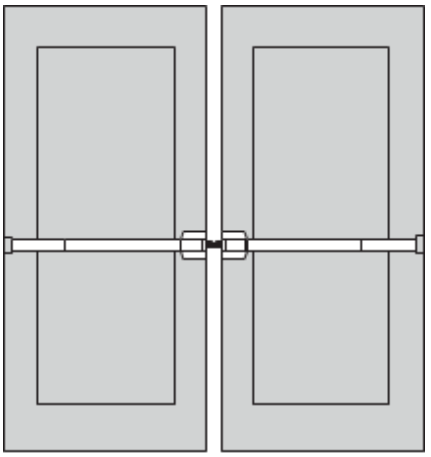
Vertical rod type or Rim type — Surface applied 2 point lock. Surface application.

PAIRS OF DOORS WITHOUT MULLION



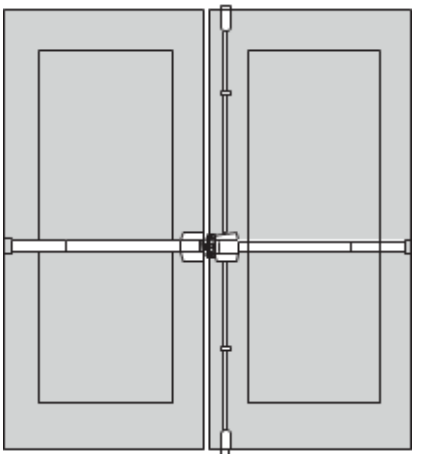
2 Vertical rod type — Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.

PAIRS OF DOORS WITH MULLION



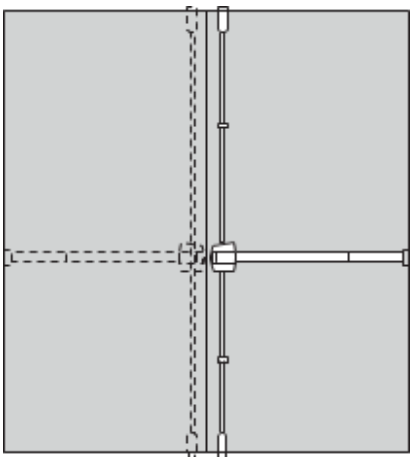
2 Rim type with mullion — Two independent active doors with full double door openings when required. Same direction.

PAIRS OF DOORS WITHOUT MULLION



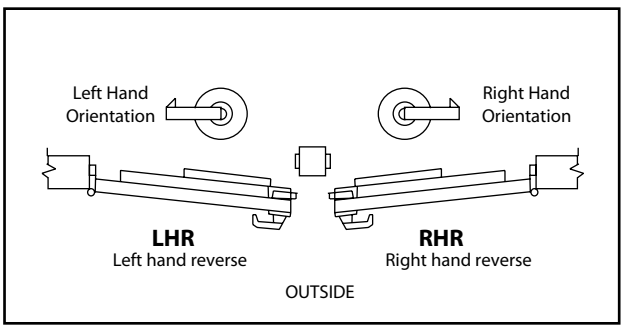
1 Vertical rod and 1 rim type — Both devices are surface applied. A coordinator and overlapping strike is recommended.

PAIRS OF DOORS WITHOUT MULLION



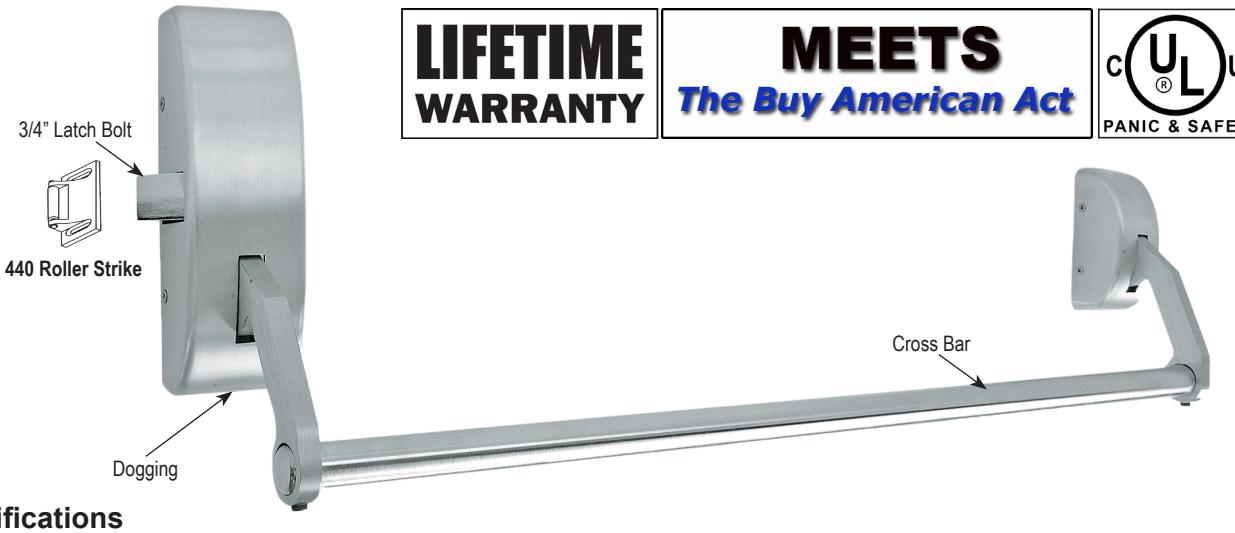
2 Vertical rod type — Double egress surface applied. 2 point locking both doors opposite directions.

HANDING



CAL-ROYAL PRODUCTS, INC.
6605 FLOTILLA ST, COMMERCE, CA 90040 U.S.A.
TEL: (323) 888-6601 FAX: (323) 888-6699
Website: cal-royal.com • Email: sales@cal-royal.com

4400 Series Rim Type Panic Exit Device



LIFETIME WARRANTY

MEETS *The Buy American Act*

cULus PANIC & SAFETY

Specifications

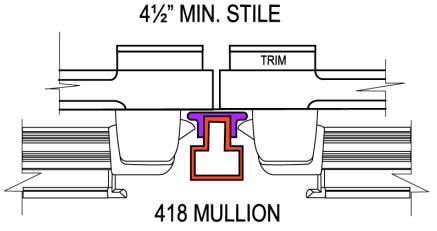
For Doors	1 ¾" thick standard. 4 ½" minimum stile width required for single or double door application using standard 440 strike and pull lever, thumbpiece and escutcheon trims
Chassis	Non-ferrous Alloy. (Panic Grade)
Cover	Non-ferrous Alloy. Covers stock hollow metal doors with 161 cut out
Mounting	Furnished with wood and machine screws. Available thru-bolts on request
Hand	Handed, Reversible, Specify handing for convenience
Latch Bolt	Stainless Steel ¾" throw
Spring	Stainless Steel throughout
ANSI Standard	A156.3, Grade 2
Cross Bar	1" Dia. Steel, 0.058" thick for 36" or 48" wide doors
Strike	Roller type
Dogging Feature	Allen-type key furnished standard
Mullion	Available
UL and ULC Listed	4400 Series for panic
Finish	US26D Satin Chrome, Dark Bonze Duranodic (DURO)
Anti-Microbial Coating	Available on US26D only. Use part # **ANTB-EXIT**
Door Size	4400EO36 for 36" doors 4420EO48 for 48" doors

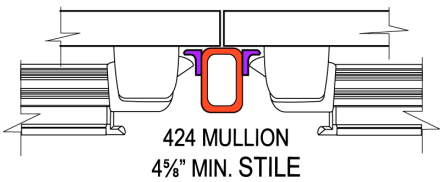
DIMENSIONS

Touchbar height to finished floor	36 ½" (927 mm) at center
Latch height to finished floor	41" (1041 mm)
Touchbar projection	
Neutral	4 ¾" (121 mm)
Depressed	3" (76 mm)
Main case	8 ½" x 2 ⅝" x 2" (216 mm x 67 mm x 51 mm)
End case	4 ⅞" x 2 ⅛" (124 mm x 54 mm)
Cross Bar Length	30" for 36" door, 42" for 48" door

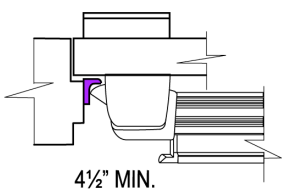
4 ½" Minimum Stile Requirements

DOUBLE DOOR





SINGLE DOOR

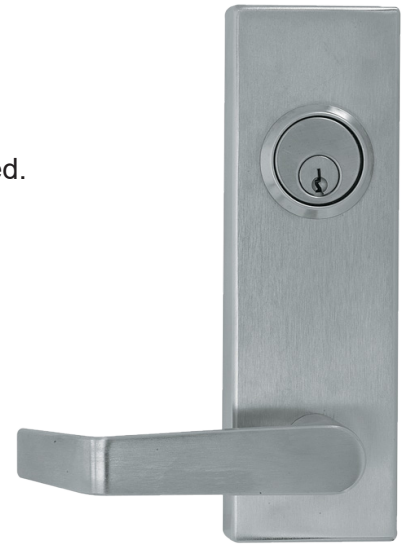


Trim Selection

ESCUTCHEON LEVER DESIGN

CONSTRUCTION

- Rigid, non clutch mechanism.
- Thrubolted design.
- Non-handed design. Easily field reversible.
- Hardened steel heavy duty tailpiece.
- Standard 6-Pin Schlage “C” keyway rim cylinder included.



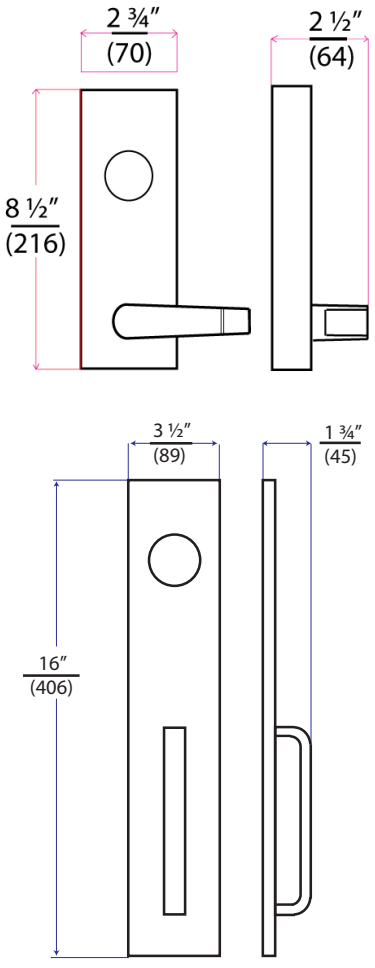
Anti-Microbial Coating available in US26D Only. Use part # “**ANTB-TRIM**” when ordering.

ESCUTCHEON DIMENSIONS

2 ¾” width x 8 ½” length. Lever length: 4 ¾”.
Fits and covers 2 ⅛” 161 cutout

ESC44-00 or	**ENTRANCE**
ICESC4400 or	Rigid Entrance, key locks
ICSCESC4400	or unlocks escutcheon trim
	ANSI Function (08)
	Operates as classroom function
ESC44-30	**PASSAGE**
	Trim always operable and free
	ANSI Function (14)
ESC44-40	**DUMMY**
	Dummy Escutcheon trim
	ANSI Function (02)





THUMBPIECE TRIM

THP4400 or	**ENTRANCE**
ICTHP4400	Key locks or unlocks thumbpiece.
ICSCTHP4400	(Operates as classroom function)
	ANSI Function (05)
THP4430	**PASSAGE**
	Trim always operable and free
	ANSI Function (15)

❖ ESCUTCHEON AND THUMBPIECE ❖

DOOR THICKNESS: Standard 1 ¾”
FINISHES: US26D Satin Chrome, DURO

KEYWAY: 6-Pin solid brass “C” keyway Rim Cylinder standard.
Optional: Sargent LA-LB-LC and Kwikset.

(IC) INTERCHANGEABLE CORE: Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW.

(ICSC) INTERCHANGEABLE CORE: Indicates function available with **Schlage Full Size Format** Interchangeable Core.

POWER SUPPLIES FOR ELECTRIFIED EXIT DEVICES

The CRPS1N is a heavy duty, high quality, low cost solution for powering a single latch retracting exit device. The solid-state design insures years of trouble-free operation. The power supply delivers raw, unregulated DC current which is ideal for the extreme in-rush requirement of most solenoid driven electric latch retracting exit devices. The power supply comes housed in a sturdy, yet compact metal enclosure.

CRPS1N



Features:

- Power supply delivers the necessary high current in-rush for a single exit device
- Solid-state design eliminates problems associated with mechanical relays
- Single input/output
- No hassle 3-year warranty

Specifications:

- Input voltage – 120V AC, 60 Hz
- Output voltage – 24V DC unregulated @ 1A
- Temperature range: 0 to 49° C; 32 to 120° F
- Maximum humidity: 85%
- 1 Solid-State input / output (input triggered by dry contact)
- LEDs – RED = Power indicator
  GREEN = Channel indicator
- ***Enclosure dimensions: 11" x 11" x 4"***

The CRPS2 Series power supplies are high quality, cost effective solution for powering two electric latch-retracting exit devices. These power supplies provide the necessary surge current that most latch-retracting exit devices require. The CRPS2 Series offers features found on power supplies costing much more; and the solid-state design and careful attention to detail make the CRPS2 Series ideal choice for the discerning user who requires a power supply that can offer years of trouble-free operation.



CRPS2
CRPS2BB

Features:

- Delivers the necessary in-rush current to power two latch pullback exit devices.
- Two independent inputs / outputs
- Solid-state design eliminates problems associated with mechanical relays
- Thermal overload sensing reduces risk of failure due to overheating
- Fire alarm disconnect link
- Intelligent short circuit detection detects shorts much faster than fuses and isolates the short to the individual output
- Removable Euro-style terminal blocks allow for easy installation
- No hassle 3-year warranty

Additional Features (CRPS2BB Only):

- Efficient battery backup / charging circuitry with zero voltage drop at power loss
- Solid state reverse polarity protection for battery connections
- Audible alert when sensing AC power failure & low battery (batteries not included)

Specifications:

- Input Voltage – 120V AC, 60 Hz
- Output Voltage – 24V DC regulated @ 2A
- Temperature Range – 0° to 120°F
- 2 Solid-State input / output (input triggered by dry contact)
- Power Tap - Continuous 24V DC @ .5A
- LEDs – RED = Power indicator
  GREEN = Output indicator
  ORANGE = Battery Output Indicator

- ***CRPS2 Enclosure dimensions: 11" x 11" x 4"***
- ***CRPS2BB Enclosure dimensions: 13" x 15.5" x 5"***

The CRPS202 and CRPS202B (Battery Backup) are regulated, linear power supplies rated at 2 Amps continuous and are specifically designed to power electrified mortise and cylindrical locks, electric strikes, mag locks, and motorized exit devices.



CRPS202
CRPS202B

Features:

- Built to run up to 2 locks, exit trim and LP Motor Kits
- Interruption-free battery back-up
- Door mounted LED Power Indicator
- Over-voltage protection
- Regulated, independent battery charging
- Automatic uninterrupted backup circuit
- Fire alarm link
- No hassle 3-year warranty

Specifications:

- Input voltage – 120V AC, 60 Hz
- Output voltage – 24V DC regulated @ 2A
- Temperature range: 0 to 49° C; 32 to 120° F
- Maximum humidity: 85%
- 2 Solid-State input / output (input triggered by dry contact)
- LEDs – RED = Power indicator
  GREEN = Output indicator
  ORANGE = Battery Output Indicator

- ***CRPS202 Enclosure dimensions: 11" x 11" x 4"***
- ***CRPS202B Enclosure dimensions: 13" x 15.5" x 5"***

POWER SUPPLIES FOR ELECTRIFIED EXIT DEVICES

The CRSW3 power supply is a low cost, regulated switching power supply. It is designed specifically to supply power to low current DC devices such as mortise locks, cylindrical locks and electric strikes. The CRSW3 supplies 2.4A @ 27V DC and provides (3) non-fused outputs. The CRSW3 comes housed in a 10" x 10" x 4" sturdy metal enclosure.

CRSW3



Features:
- Adjustable output voltage from 24-27VDC
- No hassle 3-year warranty

Specifications:
- Input voltage – 110 / 220V AC
- Output voltage – 2.4A @ 27V DC
- (3) Non-fused outputs
- ***Enclosure dimensions: 10" x 10" x 4"***

The CRPS5 power supply is a regulated, linear power supply rated at 5 Amps @ 24V DC.Its state-of-the-art, solid-state design offers a flexible and cost effective solution to powering and controlling low current DC locking devices. It is available in 4, 6, and 8 I/O models.



CRPS5 (5 Amps, 1 I/O)

Features:
- Adjustable output voltage from 24-27V DC
- Independent, Battery backup charging circuit at 27.6V with Solid-state design and very low voltage loss
- No hassle 3-year warranty

OPTIONS:
CRPS5-4 (1.25 Amps, 4 I/O)
CRPS5-6 (0.83 Amps, 6 I/O)
CRPS5-8 (0.625 Amps, 8 I/O)

Specifications:
- Input voltage - 110V AC
- Output voltage - 24V DC @ 5A continuous current
- Up to (8) Solid-state inputs (specify dry contact or voltage trigger)
- Up to (8) Solid-state outputs
- Thermal auto-resettable fuses

The CRPS440B and CRPS480B (Battery Backup) are regulated, linear power supplies rated at 4 Amps @ 24V DC to (4) or (8) PTC fused outputs. It also provides (4) or (8) solid-state input triggers, protects system relays from shorts, grounds and surges. These power supplies may also be used to power electrified mortise and cylindrical locks, electric strikes, mag locks, motorized exit devices.



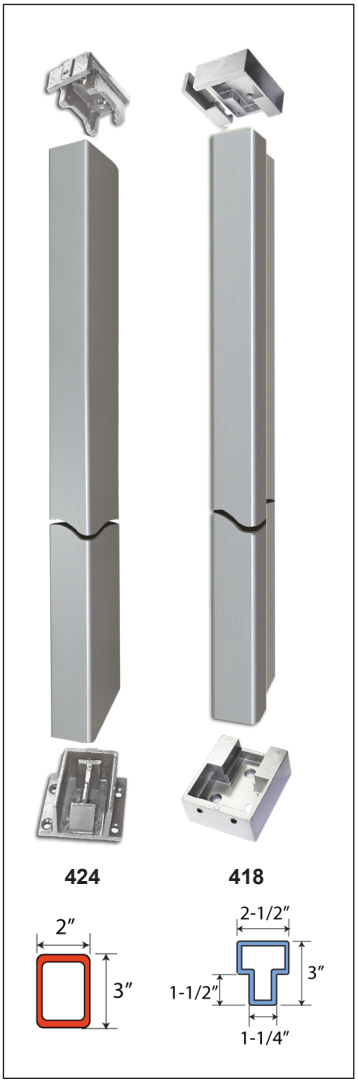
CRPS440B CRPS480B

Features:
- Built to run up to 4 or 8 locks, exit trim and LP Motor Kits
- Interruption-free battery back-up
- Door mounted LED Power Indicator
- Over-voltage protection
- Regulated, independent battery charging
- Fire alarm link
- No hassle 3-year warranty
- ***Enclosure dimensions: 13" x 15.5" x 5"***

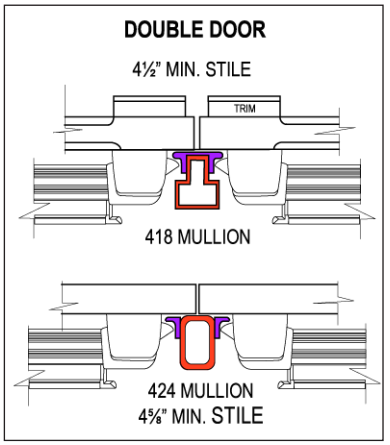
Specifications:
- Input voltage – 120V AC, 60 Hz
- Output voltage – 4A @ 24V DC
- Temperature range: 0 to 49° C; 32 to 120° F
- Maximum humidity: 85%
- **CRPS404B**: 4 Solid-State input / output (input triggered by dry contact)
- **CRPS480B**: 8 Solid-State State input / output (input triggered by dry contact)
- LEDs – RED = Power indicator
  GREEN = Output indicator
  ORANGE = Battery Output Indicator

Removable and Lockable Mullions

2” x 3” x 8’ Steel Tubing Round Corner, Iron Construction with Iron Top and Bottom Retainers.
To be used with two Rim Type Devices on two independent active doors with full double door openings.







Mullion storage kits are now available providing a safe and convenient way to store the mullion when removed. Use part # **WALLKIT** when ordering.

Full Kit includes:
(1) Top Mullion Holder
(1) Bottom Bracket
(8) Machine Screws
(8) Expansion Anchors
Mullion not included

Note: Wallkit is applicable to UL424 & LCKUL424 Only.

MODEL #	DESCRIPTION
NON-FIRE RATED APPLICATIONS	
418	96” **T-Shaped Removable Extruded Aluminum Mullion** with top and bottom retainers.
FIRE-RATED APPLICATIONS	
424	96” **Rectangular Steel** Fire Exit Mullion with top and bottom retainers.
UL424	**UL-Listed** Fire Exit Mullion
LCKUL424	Lockable, **UL-Listed** Fire Exit Mullion. **Schlage C** keyway.
IC-LCKUL424	Lockable, **UL-Listed** Fire Exit Mullion. Small Format Interchangeable core for **BEST, FALCON and ARROW**
ICSCLCKUL424	Lockable, **UL-Listed** Fire Exit Mullion. Full Size Fomat **Schlage** Interchangeable Core
ACCESSORIES	
418 BRACKETS	Top and bottom brackets with screw for 418 mullion
424 BRACKETS	Top and bottom brackets with screw for 424 mullion
UL424 BRACKETS	Top and bottom brackets with screw for UL424 mullion
LCKUL424-TF	Top Fitting Kit to convert UL424 to LCKUL424
WALLKIT	Wall Mounted Mullion Storage Kit for UL424 and LCKUL424

CAL-ROYAL PRODUCTS, INC. USA

CRP SECURITIES USA

THRESHOLDS + DOOR WEATHER SEALS



THRESHOLDS +
DOOR WEATHER SEALS

TABLE OF CONTENTS

I. THRESHOLDS

Saddle Thresholds 1
Carpet / Special Purpose Thresholds 1
Overhead Rain Drip Weatherstrip 1
Sill Nosing 1
Panic Saddle Thresholds 1
Panic Saddle Thresholds Accessories 2

II. DOOR WEATHER SEALS

A. Automatic Door Bottoms

Heavy Duty, Automatic Door Bottom with Neoprene Insert 4-5
Regular Duty, Automatic Door Bottom with Vinyl Insert 4-5
Light Duty, Automatic Door Bottom with Vinyl Insert 5

B. Adhesive Weatherstrips

Silicone Adhesive Weatherstrips 6

C. Brush Weatherstrips

Nylon Brush Weatherstrips 7
Nylon Brush Weatherstrips with Rain Drip 7

D. Door Bottom Sweeps

Door Bottom Sweep with Vinyl Insert 8
Door Bottom Sweep with Rain Drip and Vinyl Insert 8

E. Door Shoes

Door Shoes with Vinyl Insert 9
Door Shoes with Rain Drip and Vinyl Insert 9

F. Perimeter Gasketing

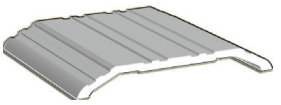
Perimeter Gasketing with Vinyl Insert 10

G. Door Weather Seal Accessories 11

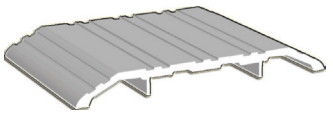
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THRESHOLDS

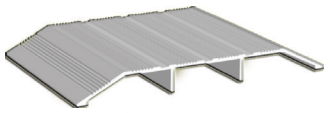
SADDLE THRESHOLDS



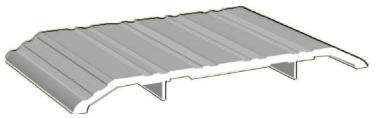
CR2704
½" H x 4" W



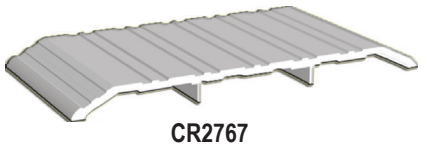
CR2715
½" H x 5" W



CR27105
½" H x 5" W



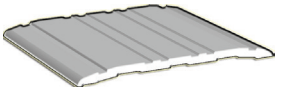
CR2726
½" H x 6" W



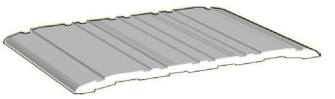
CR2767
½" H x 7" W

Testing/Ratings:

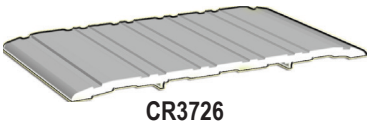




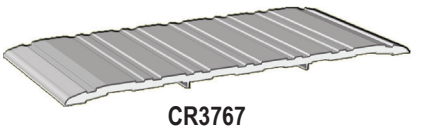
CR3704
¼" H x 4" W



CR3715
¼" H x 5" W

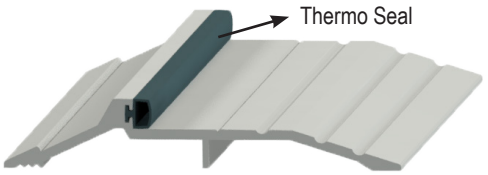


CR3726
¼" H x 6" W

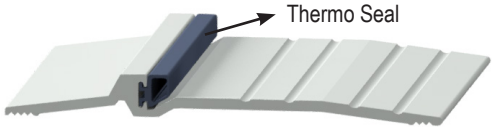


CR3767
¼" H x 7" W

PANIC SADDLE THRESHOLDS WITH THERMO SEAL



PST-200
⅞" H x 5" W



PST-201
½" H x 5" W

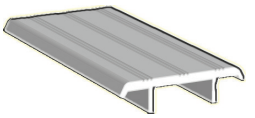
Testing/Ratings:



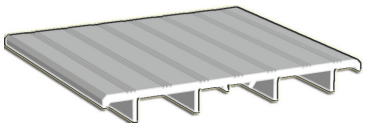
CARPET SPECIAL PURPOSE THRESHOLDS

Testing/Ratings:





CR3361
7/16" H X 1 ¾" W CARPET THRESHOLD



CR33641
7/16" H X 4" W CARPET THRESHOLD

OVERHEAD RAIN DRIP WEATHERSTRIP

Testing/Ratings:



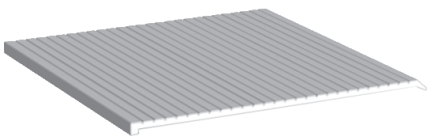


CR4462
2 ½" DOOR TOP DRIP EDGE

SILL NOSING

Testing/Ratings:





CR4243
3 ½" WIDE SILL NOSING

FINISHES: ALUMINUM, DARK BRONZE. OTHER FINISHES AVAILABLE UPON REQUEST.

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THRESHOLDS COMPARISON CHART

SIZE	CAL-ROYAL	HAGER	REESE	NGP	PEMKO	ZERO
SADDLE THRESHOLDS						
½" H x 4" W	CR2704	404S	S424A/D	424	170A	654
½" H x 5" W	CR27105	412S	S425A/D	325	1710A	655
½" H x 5" W	CR2715	412S	S425A/D	325	171A	655
½" H x 6" W	CR2726	415S	S426A/D	426	172A	656
½" H x 7" W	CR2767	416S	S427A/D	427	176A	657
¼" H x 4" W	CR3704	403S	S404A/D	413	270A	544
¼" H x 5" W	CR3715	413S	S405A/D	513	271A	545
¼" H x 6" W	CR3726	417S	S406A/D	613	272A	546
¼" H x 7" W	CR3767	430S	S407A/D	713	276A	547
PANIC EXIT SADDLE THRESHOLDS WITH THERMO SEAL						
⅞" H x 5" W	PST-200	541S	S487	804	177AT/DT	560
½" H x 5" W	PST-201	520S	S483	896	2005AT/DT	65
CARPET SPECIAL PURPOSE THRESHOLD						
7/16" H x 1 ¾" W	CR3361	505S	S565A/D	414	236A	1682
7/16" H x 4" W	CR33641	506S	S563A/D	404	2364A	1684
OVERHEAD RAIN DRIP WEATHERSTRIP						
2 ½" W	CR4462	810S	R201A/D	16A	346C	142
SILL NOSING						
3 ½" W	CR4243	---	---	---	324A	---

HOW TO ORDER
Example: CR270436 ALUM

Model Number

Size / Length:
- » **36** - 36"
- » **48** - 48"
- » **72** - 72"
- » **96** - 96"

Finish:
- » **ALUM**
- » **DURO**

Size / Length for CR4462 Only:
- » **36** - 36'
- » **40** - 40'
- » **52** - 52'
- » **76** - 76'

ADDITIONAL ACCESSORIES FOR PANIC SADDLE THRESHOLDS (PST-200 & PST-201)			
ITEM #	SIZE	DESCRIPTION	FINISH
INS200-36	36"	Thermoseal Insert for PST-200	BLACK
INS200-48	48"		
INS200-72	72"		
INS200-96	96"		
INS201-36	36"	Thermoseal Insert for PST-201	
INS201-48	48"		
INS201-72	72"		
INS201-96	96"		
SFH101.5	#10 x 1 ½" PFHWS for PST-200		ALUM, DURO
SFH101	#10 x 1" PFHWS for PST-200		

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GENERAL INFORMATION

Our Door Weather Seal products are engineered and tested for durability and reliable performance to ensure that they meet or exceed the industry standards, providing energy efficient door solution that restricts air, light, smoke, and insects from around the opening.

TESTING/RATINGS

- UL10C Fire Rated - Positive Pressure
- UL1784 Smoke Tested
- ASTM E90 Sound Tested
- UL (Underwriters Laboratory) - File R26381
- ASTM E283 Air Leakage Tested
- BHMA Certified

MATERIALS AND FINISHES

Metals:
Extruded Metal Products are made from 6063 Aluminum Alloy.

Standard Finishes:

- **A** - Mill Finish Aluminum
- **D** - Dark Bronze Anodized Aluminum
- **B** - Black ***(for Adhesive Weatherstrips)***
- **W** - White ***(for Adhesive Weatherstrips)***

Other colors are available with factory lead time.

- **AN** - Mill Finish Aluminum with Neoprene Insert
- **DN** - Dark Bronze Anodized Aluminum with Neoprene Insert
- **AV** - Mill Finish Aluminum with Vinyl Insert
- **DV** - Dark Bronze Anodized Aluminum with Vinyl Insert

Inserts: Some models have gasket inserts (seals). See below for all insert (seal) designations.

- **N** - Neoprene
- **NB** - Nylon Brush
- **S** - Silicone Seal
- **V** - Vinyl

PRODUCT DESCRIPTION

- **ADB** - Automatic Door Bottoms
- **BWR** - Brush Weatherstrips
- **BTSR** - Door Bottom Sweeps with Rain Drip
- **BTS** - Door Bottom Sweeps
- **BTN** - Door Bottom Sweeps (with Neoprene Insert)
- **DSR** - Door Shoes with Rain Drip
- **DS** - Door Shoes
- **C** - Adhesive Weatherstrips
- **PG** - Perimeter Gasketing

HOW TO ORDER

Example: ADB-701AN-36

Model Number

Finish:

- **A, D, B, W, AN, DN, AV, or DV**

Size / Length:

- **36** - 36”
- **48** - 48”
- **84** - 84”
- **96** - 96”

Size / Length for Adhesive Weatherstrips:

- **17** - 17’
- **25** - 25’
- **204** - 204’
- **510** - 510’

Size / Length for Perimeter Gasketing:

- **3684** - 1 piece @ 36” + 2 pieces @ 84”
- **4884** - 1 piece @ 48” + 2 pieces @ 84”
- **4896** - 1 piece @ 48” + 2 pieces @ 96”
- **7284** - 1 piece @ 72” + 2 pieces @ 84”
- **7296** - 1 piece @ 72” + 2 pieces @ 96”

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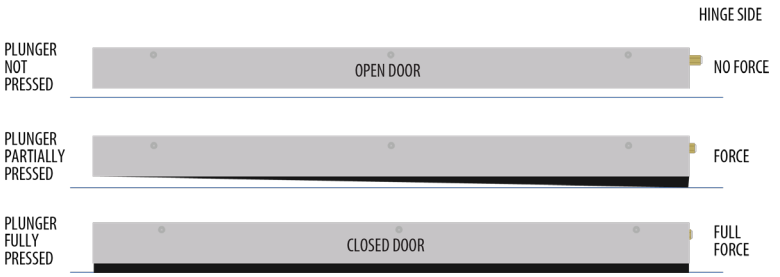
AUTOMATIC DOOR BOTTOMS

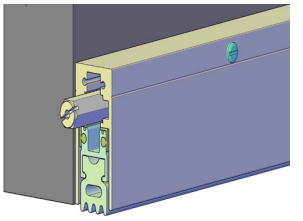
SPECIFICATIONS

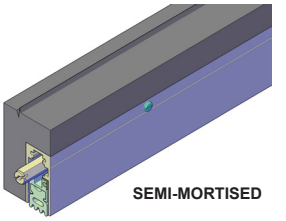
- » Automatic Door Bottoms are made from Extruded Aluminum combined with Neoprene or Vinyl seals.
- » It provides an efficient seal that blocks out air, smoke, sound, and fire.
- » Available in Surface Mounted, Semi-Mortised and Mortised Applications.
- » It can be installed on either wood or hollow metal doors; or as specified on each model.
- » Non-Handed, Reversible for Left or Right Hand Installation.
- » Low closing force; Slotted holes for adjustment.
- » Maximum cut should not be closer to 1 ½" to the set screw.

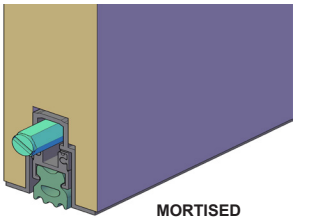
Testing/Ratings:



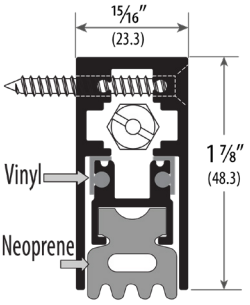



SURFACE MOUNTED


SEMI-MORTISED


MORTISED

- » The drop bar mechanism prevents the seal from dragging along the floor or threshold while the door is being closed.

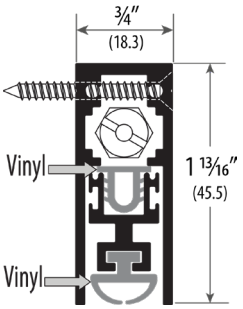


ADB-701

Finish Options: AN, DN
Length Available: 36", 48"
Max. Drop: ⅞" (22.2mm)

Heavy Duty, **Semi-Mortised or Surface Mounted Application** for use with Wood or Hollow Metal Doors
Supplied with Closed Cell Sponge **Neoprene**

Comes Standard with:
#8 x 1 ½" Truss PHSMS, and
#8 x 1 ½" Truss FHSMS

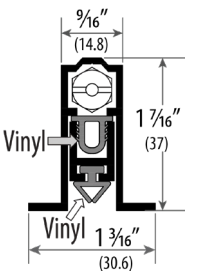


ADB-702

Finish Options: AV, DV
Length Available: 36", 48"
Max. Drop: ¾" (19.1mm)

Regular Duty, **Semi-Mortised or Surface Mounted Application** for use with Wood or Hollow Metal Doors
Supplied with Solid **Vinyl** Extrusion

Comes Standard with:
#8 x 1 ½" Truss PHSMS, and
#8 x 1 ½" Truss FHSMS



ADB-703

Finish Options: AV, DV
Length Available: 36", 48"
Max. Drop: ¾" (19.1mm)

Light Duty, **Mortised** Applications.
for use with Wood Doors.
Supplied with **Vinyl** Seal.

Comes Standard with #6 x ¾" PPHSDS

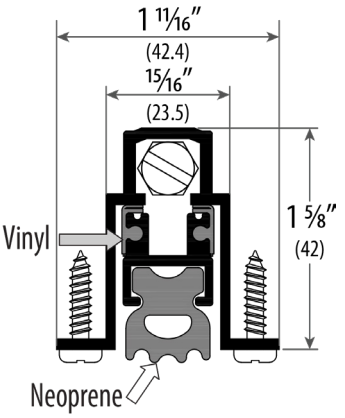
Note: Products shown in this section are not drawn to scale. | Available Finishes: AN (Mill Finish Aluminum with Neoprene Insert) | **DN** (Dark Bronze Anodized Aluminum with Neoprene Insert) | **AV** (Mill Finish Aluminum with Vinyl Insert) | **DV** (Dark Bronze Anodized Aluminum with Vinyl Insert)

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AUTOMATIC DOOR BOTTOMS

Testing/Ratings:



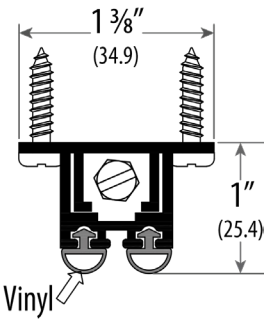


ADB-704

Finish Options: AN, DN
Length Available: 36", 48"
Max. Drop: ⅞" (22.2mm)

Heavy Duty, **Mortised** Applications
for use with Wood Doors
Supplied with Closed Cell Sponge **Neoprene**

Comes Standard with #6 x ¾" PPHSDS



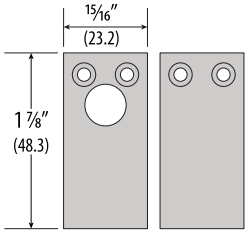
ADB-705

Finish Options: AV, DV
Length Available: 36", 48"
Max. Drop: ½" (12.7mm)

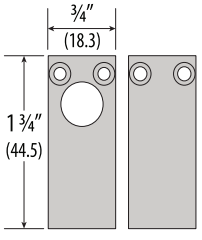
Regular Duty, **Mortised** Applications
for use with Hollow Metal Doors
Supplied with **Vinyl** Seal
Not supplied with End Plates

Comes Standard with #6 x ¾" PPHSDS

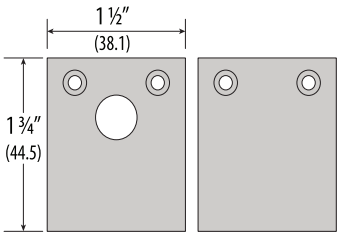
Note: Products shown in this section are not drawn to scale. | Available Finishes: AN (Mill Finish Aluminum with Neoprene Insert) | **DN** (Dark Bronze Anodized Aluminum with Neoprene Insert) | **AV** (Mill Finish Aluminum with Vinyl Insert) | **DV** (Dark Bronze Anodized Aluminum with Vinyl Insert)



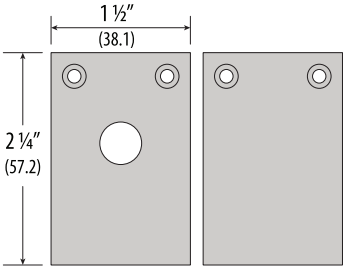
EP701 End Plate
for ADB-701



EP702 End Plate
for ADB-702



EP703 End Plate
for ADB-703

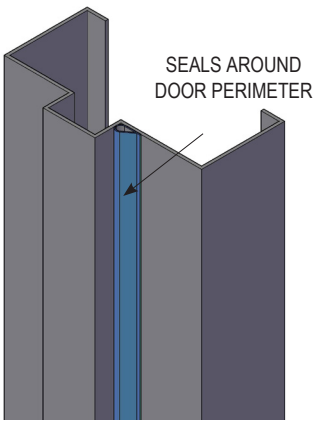


EP704 End Plate
for ADB-704

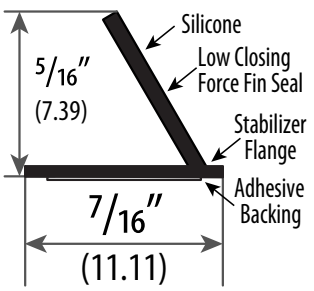
- Anodized Aluminum plates at 0.063" thick.
- End Plates are available for both ends and can easily be removed without taking door off the frame.
- All Automatic Door Bottom models are provided with end plates (except ADB-705) with screws to protect the mechanism and for aesthetics.

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ADHESIVE WEATHERSTRIP SPECIFICATIONS



- Adhesive Weatherstrips are made from Silicone Rubber with 3M Adhesive Tape that can handle various applications and high temperature (effective between -58°F and 450°F).
- High Quality Self Adhesive with strong initial adhesion and long term holding power.
- Provides a simple and cost-effective way to create a seal around your door frame.
- Non-Toxic and Self-Extinguishing; Resistant to sunlight, ozone, oxidation, weather, water and flames.
- Impermeable to mildew and fungus; will not degenerate under normal exposure.
- Used for Wood or Hollow Metal Frames.

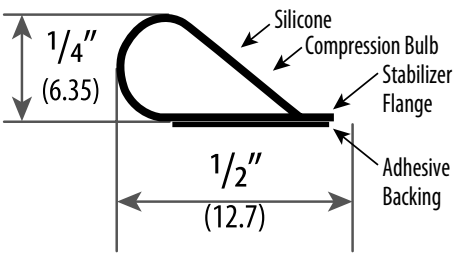


C-440

Testing/Ratings:

Finish Options: B, W
Length Available: 17', 25', 204', 510'

Seal begins compressing at 5/16".
Compresses to seal up to a 1/16" gap.
Designed for tighter frames.
Demonstrates extremely low closing force.

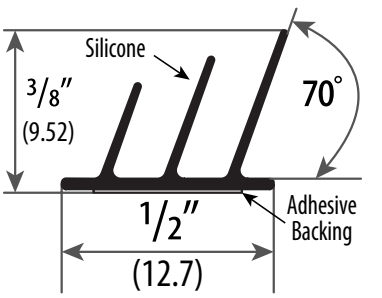


C-880

Testing/Ratings:

Finish Options: B, W
Length Available: 17', 25', 204', 510'

Seal begins compressing at 1/4".
Compresses to seal up to a 1/16" gap.



C-0773

Testing/Ratings:

Finish Options: B, W
Length Available: 17', 25', 204', 510'

Seal begins compressing at 3/8".
Compresses to seal up to a 1/16" gap.
Triple-Fin designed to block light and sound.

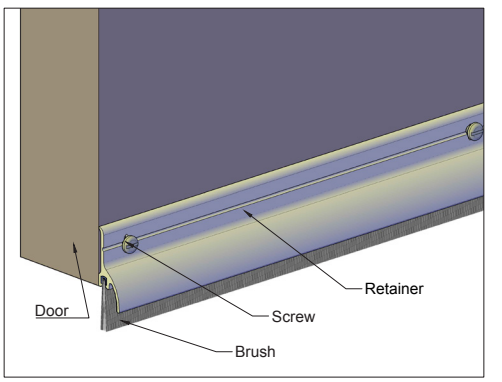
Note: Products shown in this section are not drawn to scale. | Available Finishes: B (Black) | **W** (White)

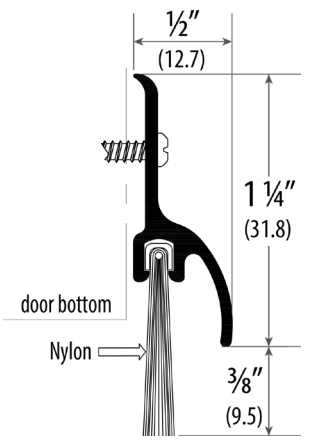
The illustration and technical description in this Specification sheet is current as of date in the version box above. Cal-Royal Products, Inc. reserves the right to and may frequently make changes and/or improvements in designs and dimensions.

BRUSH WEATHERSTRIP SPECIFICATIONS

- Brush Weatherstrips are designed to seal the gap around the door, between the bottom of the door, and the top of the threshold or floor surface.
- Energy efficient; prevents heat loss and infiltration of sound, light, drafts, insects, moisture, smoke or fire.
- It consists of high quality Nylon Brush encased in Extruded Aluminum Seal Retainers.
- These products can be used on either Wood or Hollow Metal doors (in-door sweep, jamb / header gasketing, and split astragal) applications.
- Punched with slotted holes for adjustment.
- Also available with a rain drip design (***BWR-301***), which deflects water.

Testing/Ratings:



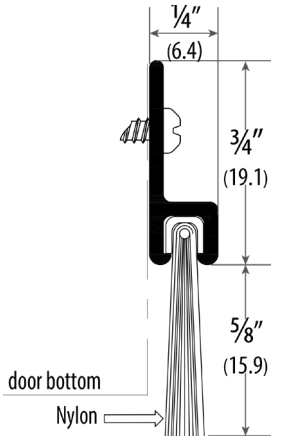


BWR-301

Finish Options: A, D
Length Available: 36”, 48”

Width: ½” (12.7mm)
Profile Height: 1 ¼” (31.8mm)
Total Height: 1 ⅝” (41.3mm)

Comes Standard with:
#6 x ⅝” PPHSMS

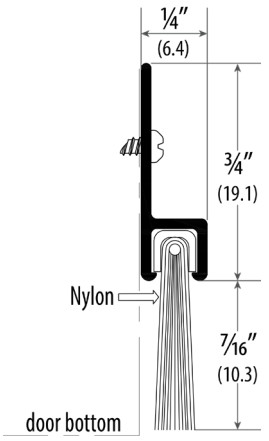


BW-302

Finish Options: A, D
Length Available: 36”, 48”

Width: ¼” (6.4mm)
Profile Height: ¾” (19.1mm)
Insert Height: ⅝” (15.9mm)
Total Height: 1 ⅜” (35mm)

Comes Standard with:
#6 x ⅝” PPHSMS

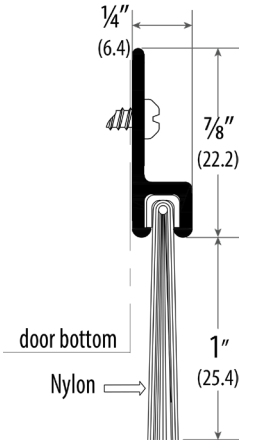


BW-303

Finish Options: A, D
Length Available: 36”, 48”, 84”, 96”

Width: ¼” (6.4mm)
Profile Height: ¾” (19.1mm)
Insert Height: 7/16” (10.3mm)
Total Height: 1 3/16” (29.4mm)

Comes Standard with:
#6 x ⅝” PPHSMS



BW-305

Finish Options: A, D
Length Available: 36”, 48”

Width: ¼” (6.4mm)
Profile Height: ⅞” (22.2mm)
Insert Height: 1” (25.4mm)
Total Height: 1 ⅞” (47.6mm)

Comes Standard with:
#6 x ⅝” PPHSMS

Note: Products shown in this section are not drawn to scale. | Available Finishes: A (Mill Finish Aluminum) | **D** (Dark Bronze Anodized Aluminum)

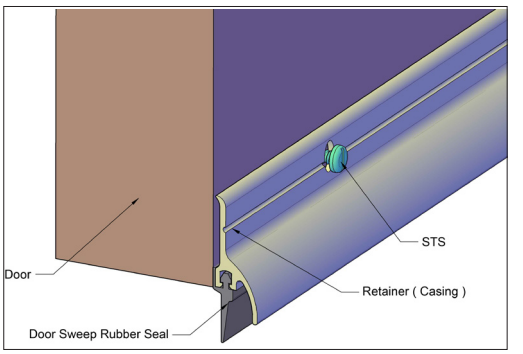
The illustration and technical description in this Specification sheet is current as of date in the version box above. Cal-Royal Products, Inc. reserves the right to and may frequently make changes and/or improvements in designs and dimensions.

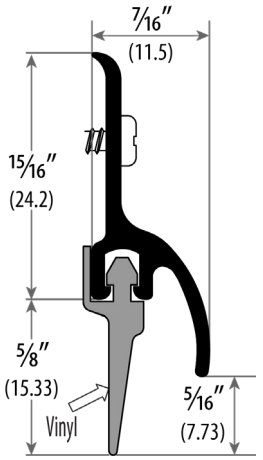
DOOR BOTTOM SWEEPS

SPECIFICATIONS

- Door Bottom Sweeps are used to seal the gap at the bottom of the door to prevent infiltration of sound, light, drafts, insects, moisture, smoke or fire.
- Surface mounted to the face of the door. They are commonly used on the exterior of outswing doors.
- Made of Extruded Aluminum Retainer with Vinyl or Neoprene Insert.
- Used on either Wood or Hollow Metal doors.
- Punched with slotted holes for adjustment.
- Also available with a rain drip design (***prefix BTSR***), which deflects water.

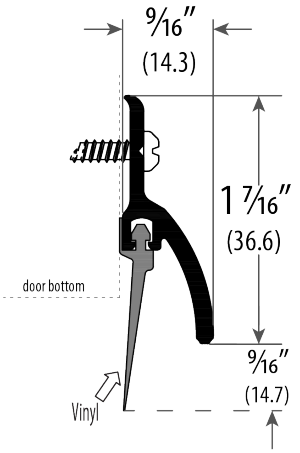
Testing/Ratings:





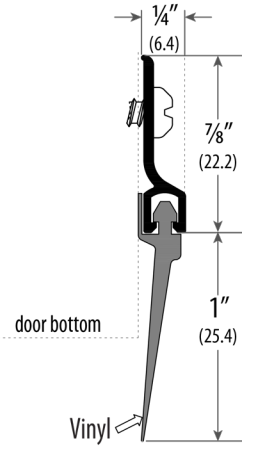
BTSR-107

Finish Options: AV, DV
Length Available: 36”, 48”
Width: 7/16” (11.5mm)
Profile Height: 1 ¼” (31.8mm)
Total Height: 1 9/16” (39.5mm)
Comes Standard with:
#6 x ⅝” PPHSMS



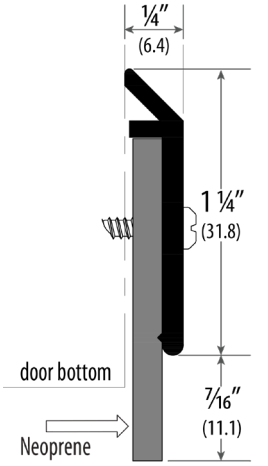
BTSR-108

Finish Options: AV, DV
Length Available: 36”, 48”
Width: 9/16” (14.3mm)
Profile Height: 1 7/16” (36.6mm)
Total Height: 2” (51.3mm)
Comes Standard with:
#6 x ⅝” PPHSMS



BTS-103

Finish Options: AV, DV
Length Available: 36”, 48”
Width: ¼” (6.4mm)
Profile Height: ⅞” (22.2mm)
Insert Height: 1” (25.4mm)
Total Height: 1 ⅞” (47.6mm)
Comes Standard with:
#6 x ⅝” PPHSMS



BTN-112

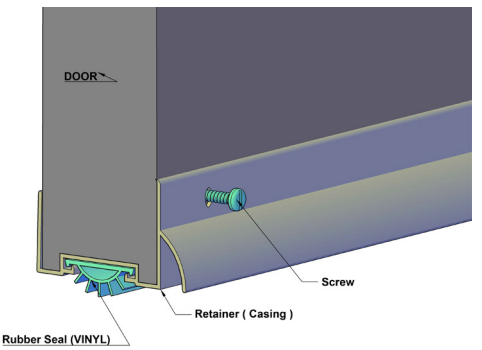
Finish Options: AN, DN
Length Available: 36”, 48”
Width: ¼” (6.4mm)
Profile Height: 1 ¼” (31.8mm)
Total Height: 1 11/16” (42.9mm)
Comes Standard with:
#6 x ⅝” PPHSMS

Note: Products shown in this section are not drawn to scale. | Available Finishes: AN (Mill Finish Aluminum with Neoprene Insert) | **DN** (Dark Bronze Anodized Aluminum with Neoprene Insert) | **AV** (Mill Finish Aluminum with Vinyl Insert) | **DV** (Dark Bronze Anodized Aluminum with Vinyl Insert)

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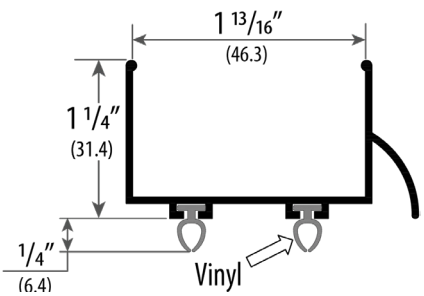
SPECIFICATIONS

- Door Shoe is applied to the underside of the door creating a barrier against dust, drafts, light, smoke, and fire without compromising the aesthetics of the door.
- It is also used to provide protection for the bottom of the door.
- It consists of Aluminum Channel with a flexible Vinyl Insert.
- Channels are punched with slotted holes for easy adjustment.
- Used on either Wood or Hollow Metal doors.
- Also available with a rain drip design (***prefix DSR***), which deflects water from the door as well as sealing the bottom of the door.



Testing / Ratings: for DSR-406

Testing / Ratings: for DSR-407, DS-403, DS-404, DSR-410

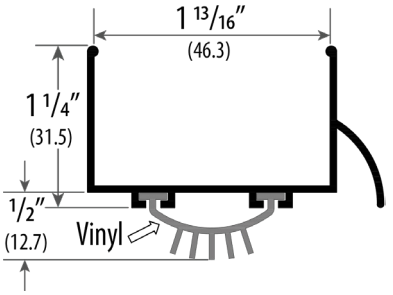


DSR-406

Finish Options: AV, DV
Length Available: 36", 48"

Width: 1 13/16" (46.3mm)
Profile Height: 1 ¼" (31.4mm)
Total Height with Insert: Approx. 1 ½" (37.8mm)

Comes Standard with #6 x ⅝" PPHSMS

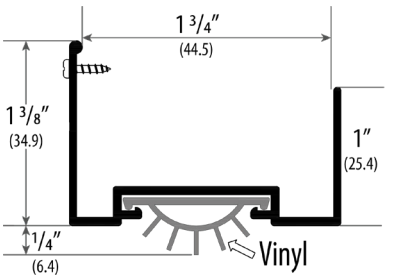


DSR-407

Finish Options: AV, DV
Length Available: 36", 48"

Width: 1 13/16" (46.3mm)
Profile Height: 1 ¼" (31.5mm)
Total Height with Insert: Approx. 1 ¾" (44.2mm)

Comes Standard with #6 x ⅝" PPHSMS

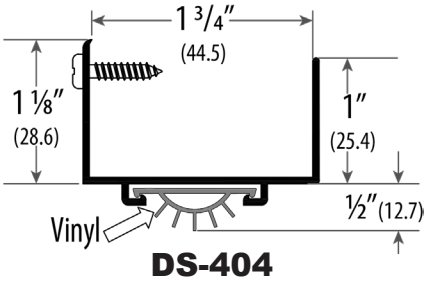


DS-403

Finish Options: AV, DV
Length Available: 36", 48"

Width: 1 ¾" (44.5mm)
Profile Height: 1 ⅜" (34.9mm)
Total Height with Insert: Approx. 1 ⅝" (41.3mm)

Comes Standard with #6 x ⅝" PPHSMS

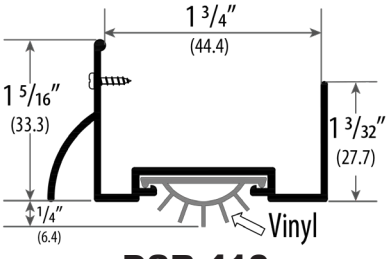


DS-404

Finish Options: AV, DV
Length Available: 36", 48"

Width: 1 ¾" (44.5mm)
Profile Height: 1 ⅛" (28.6mm)
Total Height with Insert: Approx. 1 ⅝" (41.3mm)

Comes Standard with #6 x ⅝" PPHSMS



DSR-410

Finish Options: AV, DV
Length Available: 36", 48"

Width: 1 ¾" (44.4mm)
Profile Height: 1 5/16" (33.3mm)
Total Height with Insert: Approx. 1 9/16" (39.7mm)

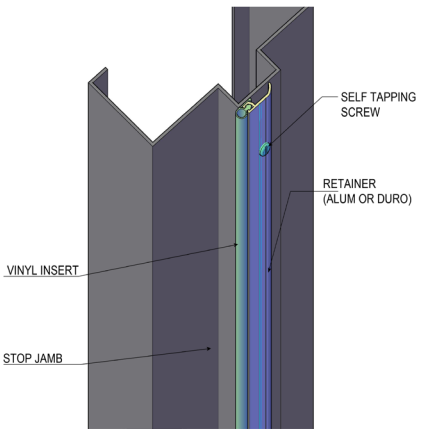
Comes Standard with #6 x ⅝" PPHSMS

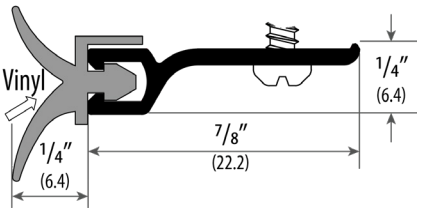
Note: Products shown in this section are not drawn to scale.
Available Finishes: AV (Mill Finish Aluminum with Vinyl Insert) | **DV** (Dark Bronze Anodized Aluminum with Vinyl Insert)

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SPECIFICATIONS

- Perimeter Gasketing consists of an Aluminum Channel with a Vinyl Rubber Seal.
- It is designed to seal the gaps around the top & two sides of a door.
- Can be installed on either Wood or Metal frame.
- It contains (1) Jamb Header piece and (2) Hinge & Strike Jamb pieces of weatherstrip.
- Each weatherstrip can seal gaps up to the depth of its seal.
- Seal depth provided on each illustration (example: PG-602 has a ¼" seal; therefore, it can seal up to a ¼" gap).
- Channels are punched with slotted holes for easy adjustment.





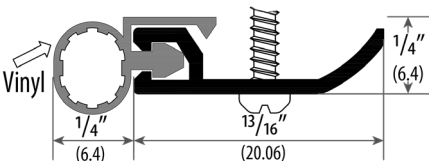
PG-601

Testing / Ratings:

Finish Options: AV, DV
Length Available: 3684, 4884, 4896, 7284, 7296

Width: ¼" (6.4mm)
Profile Height: ⅞" (22.2mm)
Total Height: 1 ⅛" (28.55mm)

Comes Standard with #6 x ⅝" PPHSMS



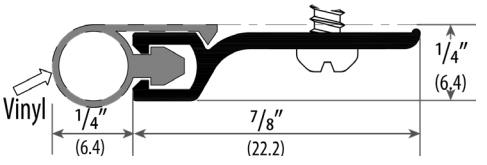
PG-602

Testing / Ratings:

Finish Options: AV, DV
Length Available: 3684, 4884, 4896, 7284, 7296

Width: ¼" (6.4mm)
Profile Height: 13/16" (20.06mm)
Total Height: 1 1/16" (26.46mm)

Comes Standard with #6 x ⅝" PPHSMS



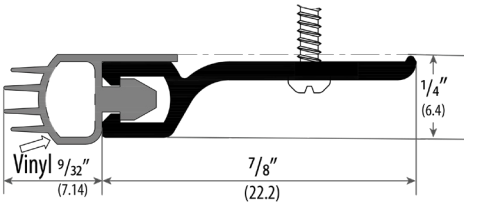
PG-603

Testing / Ratings:

Finish Options: AV, DV
Length Available: 3684, 4884, 4896, 7284, 7296

Width: ¼" (6.35mm)
Profile Height: ⅞" (22.2mm)
Total Height: 1 ⅛" (28.55mm)

Comes Standard with #6 x ⅝" PPHSMS



PG-604

Testing / Ratings:

Finish Options: AV, DV
Length Available: 3684, 4884, 4896, 7284, 7296

Width: 9/32" (7.14mm)
Profile Height: ⅞" (22.2mm)
Total Height: 1 3/16" (29.34mm)

Comes Standard with #6 x ⅝" PPHSMS

Note: Products shown in this section are not drawn to scale.
Available Finishes: AV (Mill Finish Aluminum with Vinyl Insert) | **DV** (Dark Bronze Anodized Aluminum with Vinyl Insert)

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ADDITIONAL ACCESSORIES

AUTOMATIC DOOR BOTTOMS

ITEM #	SIZE	DESCRIPTION	FINISH
INS701-36	36”	Neoprene insert for ADB-701 and ADB-704	BLACK
INS701-48	48”		
INS702-36	36”	Vinyl insert for ADB-702	
INS702-48	48”		
INS703-36	36”	Vinyl insert for ADB-703	
INS703-48	48”		
INS705-36	36”	Vinyl insert for ADB-705	
INS705-48	48”		
EP701	15/16” x 1 7/8”	End Plate for ADB-701	ALUM, DURO
EP702	¾” x 1 ¾”	End Plate for ADB-702	
EP703	1 ½” x 1 ¾”	End Plate for ADB-703	
EP704	1 ½” x 2 ¼”	End Plate for ADB-704	

BRUSH WEATHERSTRIPS

ITEM #	SIZE	DESCRIPTION	FINISH
INS301-36	36”	Nylon Brush for BWR-301	BLACK
INS301-48	48”		
INS302-36	36”	Nylon Brush for BW-302	
INS302-48	48”		
INS303-36	36”	Nylon Brush for BW-303	
INS303-48	48”		
INS303-84	84”		
INS303-96	96”		
INS305-36	36”	Nylon Brush for BW-305	
INS305-48	48”		

DOOR BOTTOM SWEEPS

ITEM #	SIZE	DESCRIPTION	FINISH
INS107-36	36”	Vinyl insert for BTSR-107	BLACK
INS107-48	48”		
INS108-36	36”	Vinyl insert for BTSR-108	
INS108-48	48”		
INS103-36	36”	Vinyl insert for BTS-103	
INS103-48	48”		
INS112-36	36”	Neoprene insert for BTN-112	
INS112-48	48”		

DOOR SHOES

ITEM #	SIZE	DESCRIPTION	FINISH
INS406-36	36”	Vinyl insert for DSR-406	GRAY
INS406-48	48”		
INS407-36	36”	Vinyl insert for DSR-407	
INS407-48	48”		
INS403-36	36”	Vinyl insert for DS-403, DS-404, and DSR-410	
INS403-48	48”		

PERIMETER GASKETING

ITEM #	SIZE	DESCRIPTION	FINISH
INS601-3684	17’	Vinyl Insert for PG-601	GRAY
INS601-4884	18’		
INS601-4896	20’		
INS601-7284			
INS601-7296	22’		
INS602-3684	17’	Vinyl Insert for PG-602	
INS602-4884	18’		
INS602-4896	20’		
INS602-7284			
INS602-7296	22’		
INS603-3684	17’	Vinyl Insert for PG-603	
INS603-4884	18’		
INS603-4896	20’		
INS603-7284			
INS603-7296	22’		
INS604-3684	17’	Vinyl Insert for PG-604	
INS604-4884	18’		
INS604-4896	20’		
INS604-7284			
INS604-7296	22’		

SCREWS

ITEM #	DESCRIPTION	FINISH
SPH815	#8 x 1 ½” Truss PHSMS for ADB-701 and ADB-702	ALUM, DURO
SFH815	#8 x 1 ½” Truss FHSMS for ADB-701 and ADB-702	
SPH675	#6 x ¾” PPHSDS for ADB-703, ADB-704, and ADB-705	
SPH658	#6 x ⅝” PPHSMS for Brush Weatherstrip, Door Bottom Sweep, Perimeter Gasketing, and Door Shoe models	

The illustration and technical description in this Specification sheet is current as of date in the version box above. Cal-Royal Products, Inc. reserves the right to and may frequently make changes and/or improvements in designs and dimensions.

DOOR WEATHERS SEALS COMPARISON CHART

CAL-ROYAL	PEMKO	HAGER	ZERO	COMBO	COLUMBIA	NGP	REESE
AUTOMATIC DOOR BOTTOM							
ADB-701	4301	747S	361 / 362	---	---	420	330
ADB-702	4131	740S	351 / 352	---	---	223	521
ADB-703	411	730S	320	244	---	335	370
ADB-704	434	743S	360	---	---	423	430
ADB-705	420	742S	355	---	---	320	372
ADHESIVE WEATHERSTRIP							
C-440	S44	728	---	---	3336	5060	798
C-880	S88	726	188S	---	3338	5050	797
C-0773	S773	738	---	---	---	5075	793
BRUSH WEATHERSTRIP							
BWR-301	3452NB	---	8198	316	5820 / 5829	---	354
BW-302	18061	802S	8192	309	---	---	964
BW-303	18041	---	---	307	---	B606	959
BW-305	18100	801S	---	308	6620 / 6629	D608	967
DOOR BOTTOM SWEEP							
BTSR-107	3452V	---	---	215	5840 / 5849	---	---
BTSR-108	345	770S	8197	214	5860 / 5869	101V	353
BTS-103	307	756S	8191	209	6580 / 6589	97V	806
BTN-112	315	750S / 752S	39	---	3350 / 3359	200NA	603
DOOR SHOE							
DSR-406	---	---	---	256	258DV	---	---
DSR-407	216	---	---	257	258	---	DB595
DS-403	222	780S	---	---	669	---	DB596
DS-404	217	779S	111	151	---	36V	DB594
DSR-410	2221	---	---	---	---	---	---
PERIMETER GASKETING							
PG-601	294	892S	---	---	6650	---	DS106
PG-602	297	896S	---	3212	3200	156	888
PG-603	303	891S	328	1000	3340	160	807
PG-604	306	---	---	---	---	164	822

The illustration and technical description in this Specification sheet is current as of date in the version box above. Cal-Royal Products, Inc. reserves the right to and may frequently make changes and/or improvements in designs and dimensions.

CAL-ROYAL PRODUCTS, INC. USA

CRP SECURITIES USA

LITES + LOUVERS

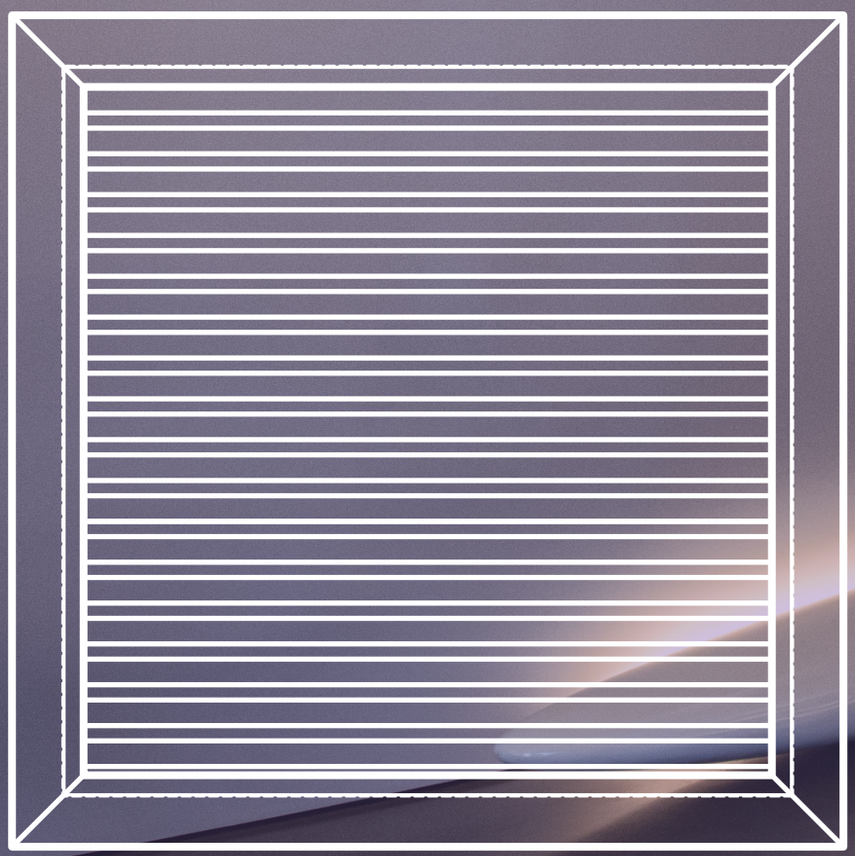


TABLE OF CONTENTS

I. LITES & LOUVERS COLOR CHART 1

II. GLASS

PPF, Pyran® Platinum F, Fire and Safety Rated 3
TEMP20, Fire and Safety Rated 3
WS, PROTECT3™ Wired Safety Glass, Fire-Rated 3
TEMP, Tempered Glass 3

III. LITES / KITS

20-180 MINUTE FIRE-RATED STEEL VISION KITS

10VL,Vision Lite Standard Profile for 1" Thick Glass Frames 2
SVL, Vision Lite Low Profile 2
VL, Vision Lite Standard Profile for $^{3}/_{16}$" to ¼" Thick Glass Frames 2

IV . LOUVERS

90 MINUTE FIRE-RATED FUSIBLE LINK LOUVERS

FLLV, Adjustable Fusible Link Louvers 5

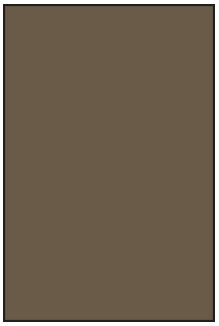
90 MINUTE FIRE-RATED STEEL LOUVERS

VLV, Inverted Y-Blade Louvers 4
YLV, Divided Reverse "Y" Blade Louvers 4

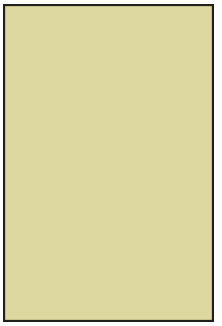
CAL-ROYAL PRODUCTS, INC.

LITES & LOUVERS COLOR CHART

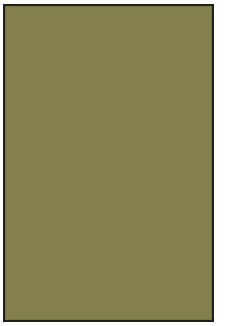
Cal-Royal Lites are powder coated which provides better performance. It is more resistant to chipping, scratching and other wear because of the thermal bonding it undergoes during curing, and because it can be applied in much thicker layers. In addition to its physical toughness, powder coating provides superior color retention resulting in loger life usage



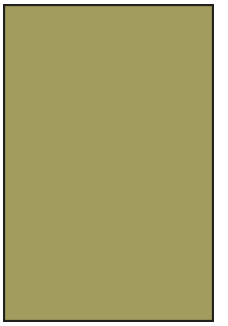
Dark Bronze (DB)



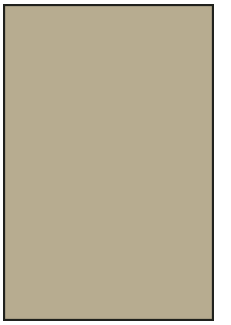
Sand (S)



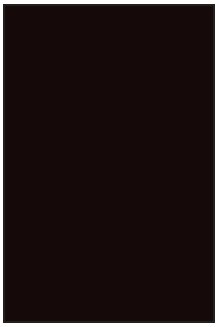
SC Beige (SB)



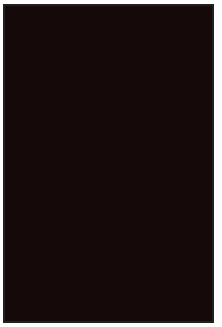
AMS Beige (AB)



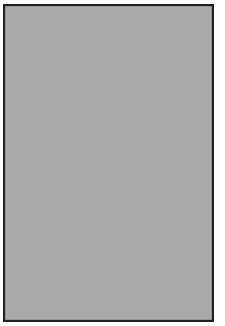
Brass (BRA)



Semi Gloss Black (BK)



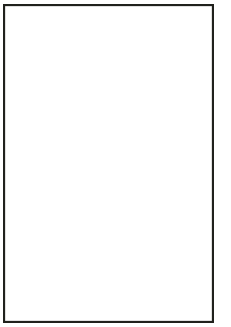
Flat Black (FBK)



Grey (PR)



Silver (SI)



White (W)

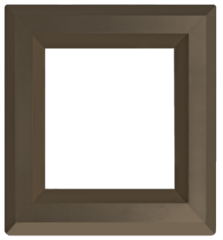
Dark Bronze (DB) and Grey (PR, Prime Coat) are available for immediate shipment on selected sizes shown in the catalog. See price list.
All other sizes & colors are made in the USA with lead time.

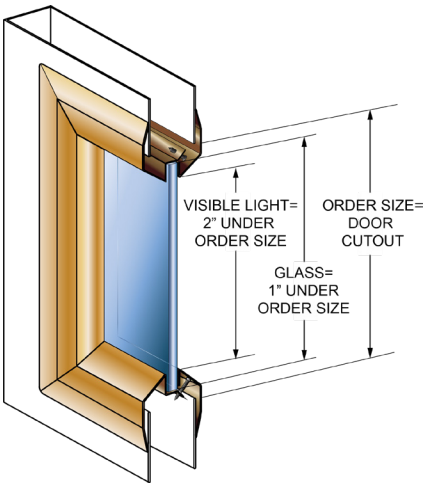
Note: The colors shown above are similar to, and may not be exactly the same as the painted products.

*20-180 Minute Fire-Rated Steel Vision Kits**

SVL , Vision Lite Low Profile

ILLUSTRATION





SPECIFICATIONS

For use in fire rated door applications under positive and neutral pressure. Intertek testing certification in compliance to NFPA 252 (2000), UL 10C (2009), CAN / ULS104 (2010), NFPA (201) and CSI CODE 0870 00.

Specifications:

- Low Profile Beveled Vision Lite; 20 Gauge Cold Rolled Steel
- Mitered welded corners with counter sunk mounting holes
- Single side attaching with matching mounting screws included
- Designed for use with 1 ¾" doors only. For use with $^{3}/_{16}$" to ¼" glass thickness
- Color: **Dark Bronze (DB)**; also available in **Grey** (**PR** - Prime Coat) in selected sizes only
- **Custom colors available, see color chart on page 1.**
- Fastener: # 8 x ⅞" flathead phillips head SMS

Kit Options:

- Also available as a KIT or bundle which comes with the Frame, Glass and Glazing Tape.
- Available glass types are Fire Rated Pyran® Platinum F Glass ($^{3}/_{16}$"), TEMP20 (¼"), PROTECT3™ Wired Safety Glass (¼"), and Non-Fire Rated Tempered (¼").

Notes:

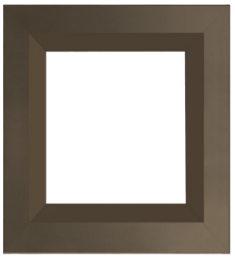
- Order size is equal to opening size. Visible vision opening is 2" under order size
- Glass size dimension is 1" under complete order size
- Dimensions are written width (W) x height (H)

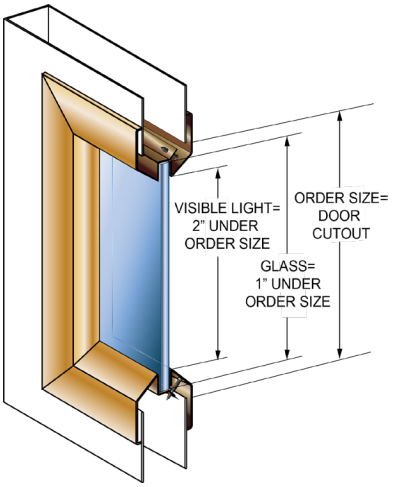
* Refer to price list for list of fire rated sizes

*** Custom sizes are available. See price list.**

VL , Vision Lite Standard Profile for $^{3}/_{16}$" to ¼" Thick Glass Frames
10VL , Vision Lite Standard Profile for 1" Thick Glass Frames

ILLUSTRATION





SPECIFICATIONS

For use in fire rated door applications under positive and neutral pressure. Intertek testing certification in compliance to NFPA 252 (2000), UL 10C (2009), CAN/ULS104 (2010), NFPA (201) and CSI CODE 0870 00.

Specifications:

- Standard Profile Beveled Vision Lite; 20 Gauge Cold Rolled Steel
- Mitered welded corners with counter sunk mounting holes
- Single side attaching with matching mounting screws included
- Also available for 1" glass thickness (10VL Series)
- Designed for use with 1 ¾" doors only; For use with $^{3}/_{16}$" to ¼" glass thickness
- Color: **Dark Bronze (DB)**; also available in **Grey** (**PR** - Prime Coat) in selected sizes only
- **Custom colors available, see color chart on page 1.**
- Fastener: # 8 x ⅞" flathead phillips head SMS

Kit Options:

- Also available as a KIT or bundle which comes with the Frame, Glass and Glazing Tape.
- Available glass types are Fire Rated Pyran® Platinum F Glass ($^{3}/_{16}$"), TEMP20 (¼"), PROTECT3™ Wired Safety Glass (¼"), and Non-Fire Rated Tempered (¼").

Notes:

- Order size is equal to opening size, Glass size dimension is 1" under complete order size
- Visible vision opening is 2" under order size
- Dimensions are written width (W) x height (H)

* Refer to price list for list of fire rated sizes

*** Custom sizes are available. See price list.**

Pyran (PPF), TEMP20, Wire Shield (WS), and Tempered

Glass for Low & Standard Profile Lite Kits

Pyran (PPF)

(PYRAN® PLATINUM F, Fire & Safety Rated)

- Fire-Rated up to 90 minutes (180 minutes in doors) with required hose stream test
- Fire and Safety-Rated Glass Impact / Safety Rated to ANSI Z97.1 and CPSC 16CFR1201 CAT II
- Thickness: $^3/_{16}$" (5mm). Weight: 2.5 lbs / ft^2
- UL labeled standard, $^3/_{16}$" thick glass ceramic.
- Surface applied heavy duty safety film. Install in fire listed and labeled vision lite frames.
- Light transmission: 80% approx.
- Minimum size: 4" x 6"
- Maximum sheet size: 43" x 77"

WireShield (WS)

(PROTECT3™ Wired Safety Glass, Fire-Rated)

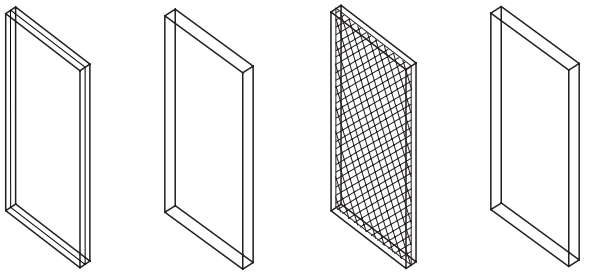
- Fire-Rated up to 90 minutes with hose stream
- UL classified and UL labeled
- Impact-Safety rated to ANSI Z97.1 and CPSC 16CFR1201, CAT I and II
- Passes 400 ft-lb impact tests
- Annealed single glazing with safety film applied to one side
- Passes air blast testing - minimum Level 3 @ 4.0PSI
- Embedded ¾" x ¾" wire mesh
- Light Transmission: 86% approx
- Thickness: ¼" (6 mm)
- Minimum size: 4" x 4"
- Maximum sheet size: 48" x 96"

TEMP20

- Clear wire-free, fire rated and impact safety rated glass for 20 minute fire doors.
- Impact safety rated to ANSI Z97.1 and CPSC 16 CFR1201 (Cat I and II).
- Meets NFPA 80 requirements for certification and labeling.
- Tempered glass for safety and security.
- Thickness: ¼" (6mm)
- Light transmission: 90% approx.
- Minimum size: 4" x 4"
- Maximum sheet size: 36" x 89"
- Can be used in standard fire rated doors of same rating.

Tempered Glass (TEMP)

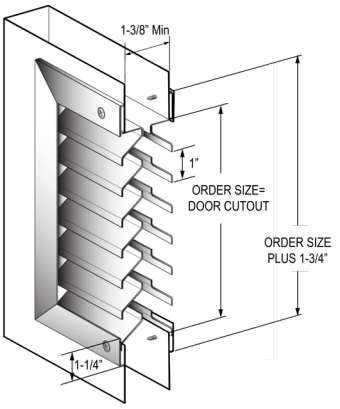
- Clear wire free glass recommended for non-fire rated applications
- Heat treated clear safety glass that breaks into small particles. Glass cannot be cut after manufacturing.
- Thickness: ¼" (6mm)
- Light transmission: 90% approx
- Minimum size: 2" x 2"
- Maximum sheet size: 87" x 117"
- Fire Rating: Non-Fire Rated



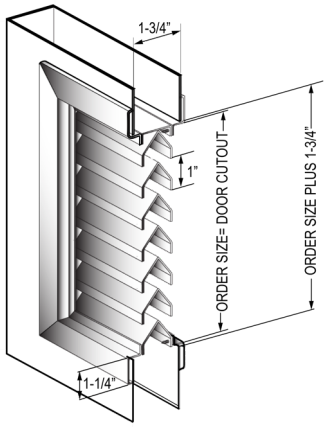
LISTINGS	Product	Rating	Application	Max Sq In (in^2)	Max Width (in)	Max Height (in)	Stop Height (in)
PPF	Platinum F	Up to 90 min	Other than doors	3422	76	76	⅝
		Up to 90 min	Doors (Non-Temp Rise)	2736	36	76	⅝
		180 min	Doors	100	12	33	½
TEMP20	Temp20	20 min	Doors	3204	36	89	½
WS	PROTECT3™ SAFETY WIRED GLASS (WireShield)	Up to 45 min	Doors, Metal	2856	34	84	⅝
		Up to 90 min	Doors, Metal	552	12	46	⅝
		Up to 60 min	Doors, Wood	960	12	80	⅝
		Up to 45 min	Window and Sidelites	4608	48	96	⅝
		Up to 45 min	Transom Lites	3456	96	36	⅝

*90 Minute Fire-Rated Steel Louvers**

YLV, Divided Reverse "Y" Blade, Inverted Louvers

ILLUSTRATION	SPECIFICATIONS
 	For use in fire-rated door applications under positive and neutral pressure Intertek testing certification in compliance to NFPA 252 (2000), UL 10C (2009), NFPA 252 (2012), CSI CODE 08 90 00 Louvers and Vents **Specifications:** - 18 Gauge cold rolled steel frame and blades - Mitered welded corner frame construction - Divided row "Y" blades spaced at 1" increments with blocked vision design - Counter sunk mounting holes with screws for each side of doors - Minimum door size thickness 1 ⅜" - Baked on powder coat finish - Color: **Dark Bronze (DB). Custom colors available, see color chart on page 1.** - Free Flow Area: 50% free area - Fasteners: Phillips pan head screw # 8 x ¾" **Notes:** - Order size equal to opening size, Width x Height - Follow all door manufacturer's instructions for use and installation of all louver products - Optional Insect screen, see price list. *** Refer to pricelist for list of fire rated sizes**

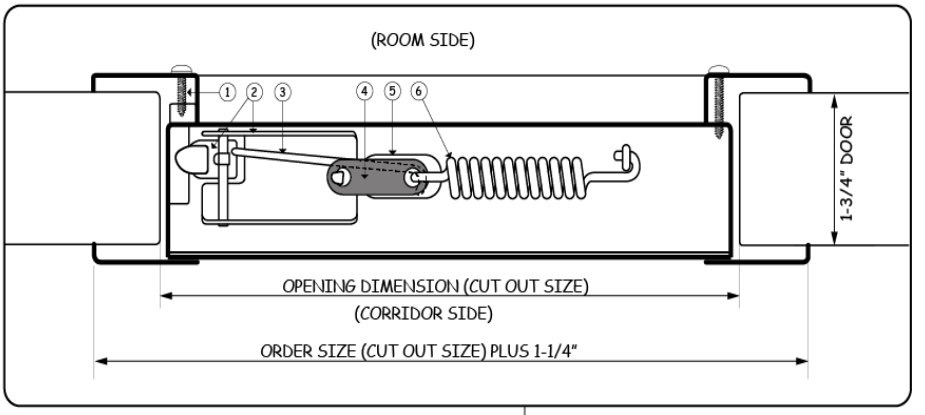
VLV, Inverted Y-Blade Louvers

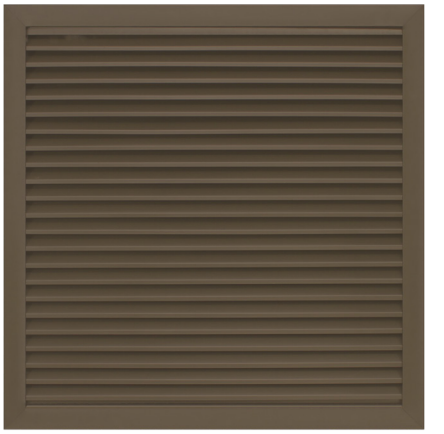
ILLUSTRATION	SPECIFICATIONS
 	For use in fire rated door applications under positive and neutral pressure Intertek testing certification in compliance to NFPA 252 (2000), UL 10C (2009), NFPA 252 (2012), CSI CODE 08 90 00 Louvers and Vents **Specifications:** - 18 Gauge cold rolled steel frame and blades - Mitered welded corner frame construction - Reverse "Y" blades are frame supported at 1" increments, with blocked vision design - Single side mounting for non-corridor exposure with fastening screws included - Designed for use on 1 ¾" doors only - Baked on powder coat finish. - Color: **Dark Bronze (DB)**. Also available in **Grey** (**PR** - Prime Coat) in selected sizes **- Custom colors available, see color chart on page 1.** - Free Flow Area: 50% free area - Fasteners: Phillips pan head screw # 8 x ¾" **Notes:** - Order size equal to opening size, Width x Height - Follow all door manufacturer's instructions for use and installation of all louver products - Optional Insect screen, see price list *** Refer to pricelist for list of fire rated sizes**

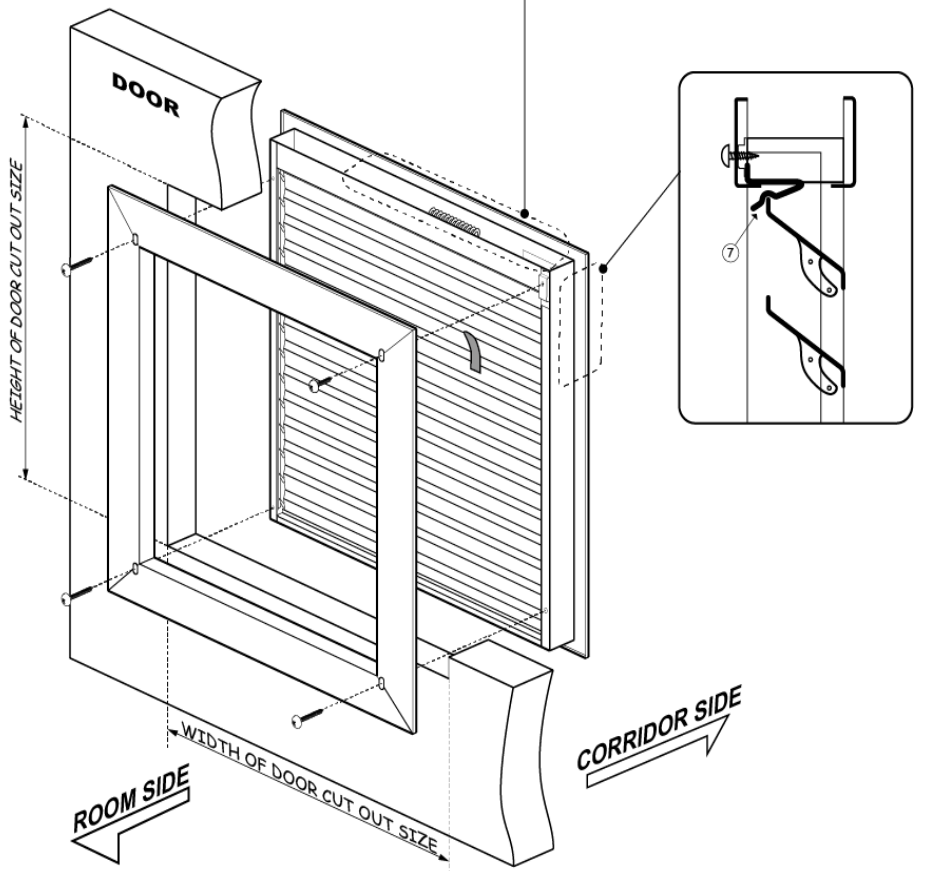
90 Minute Fire-Rated Fusible Link Louvers

FLLV, Adjustable Fusible Link Louvers

Adjustable Fusible Link Louvers are recommended for use in rooms where ventilation is needed and at the same time isolating the room whenever fire is present. When louver is exposed to heat at 165°F, the fusible link trips and the spring loaded louver blades shut to form an air tight fire and smoke seal.
WHI Listing Mark with a 90 Minute Fire Rating is stamped on the frame of the louvers.
Installation is easy. No need to drill holes for fasteners. All screws are mounted on the room side leaving the corridor side free of fasteners for security purposes.
Fuses are replaceable.







CUSTOM COLORS AVAILABLE, SEE COLOR CHART ON PAGE 1

① Mounting Screws - # 8 phillips head (3 x ¾" LG & 1 x ½" LG)
② Rocker Arm, Closing Bar and housing
③ "S" Hook - .080" Cadmium plated steel
④ Fusible link - Design temperature 165° F max
⑤ Heat opening - ½" x 1"
⑥ Tension spring - 3" LG x ½" dia x .063" thick Cadmium plated steel.
⑦ Flat Spring Clip

Standard Features:

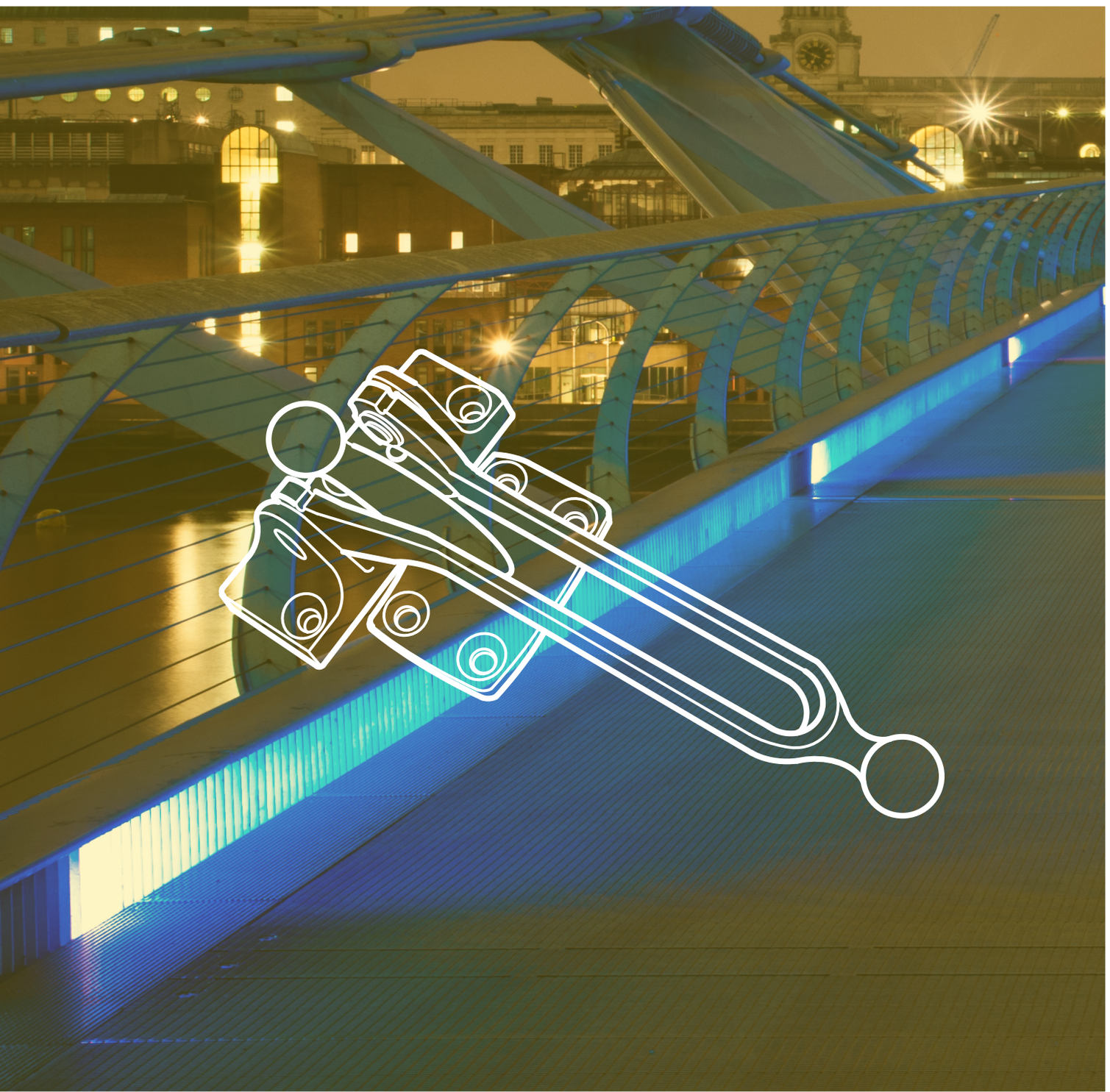
Material: 16 Gauge CRS Frame & Louver Blades
Door: for 1 ¾" Doors only
Fasteners: 3 x ¾" LG & 1 x ½" LG
Color: **Dark Bronze (DB)**
***Custom colors available, see color chart on page 1.**

Free Flow Area: 45% free area
Construction:
- Welded & mitered corners
- Adjustable blades of 16-gauge CRS
- Cadmium plated steel rivets & tension spring
- 1 9/16" deep louver assembly
- Optional Insect screens, see price list
- Dimensions are written Width x Height

CAL-ROYAL PRODUCTS, INC. USA

CRP SECURITIES USA

BUILDERS HARDWARE



BUILDERS HARDWARE

CAL-ROYAL PRODUCTS, INC. USA

CRPG SECURITIES USA

CAL-ROYAL

PRODUCTS INC.

BUILDERS HARDWARE

SEPTEMBER 2020



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Website: www.cal-royal.com Email: sales@cal-royal.com

TABLE OF CONTENTS

I. NUMBERS AND LETTERS
- Solid Brass Numbers 1
- Solid Brass Letters 1
- Diecast Numbers 1
- Diecast Letters 1
- Floating Modern Numbers, Zinc Alloy 1

II. MISCELLANEOUS DOOR AND WINDOW HARDWARE
- Window Casement Fasteners 2
- Door / Window Casement Security Latch Lock 2
- ASA Blank Filler Plate 3
- Strike Filler 3
- Door Silencers 3
- Latch Guard Protectors 3-4
- Heavy Duty Roller Catch 4

III. STRIKES
- Template ASA Strikes 2
- Extended Lip ANSI Strike 2
- Flat Strike 2
- Heavy Duty Security Strike 2
- Deadbolt Security Strike 2
- Drive in Thimble Strike 3
- Brass Dust Proof Strike 4
- Optional T-Strike for ARL-1338 4
- Strike for SDL16 12
- Angle Strike for Decorative Heavy Duty Surface Bolts 14
- Strike for MB85R and MB86S 14
- Strike for FBG6 and FBGEX12 15
- Strike for MF6341 16
- Full Lip Strike Plate for BC97 & DIB1 31
- T-Strike for Bullet Catch 32

IV. KICK / ARMOR PLATES
- Stainless Steel Kick Plates 5
- Aluminum Kick Plates 5
- Stainless Steel Armor Plates 5

IV. PUSH / PULL PLATES
- Stainless Steel Push Plates 5-6
- Stainless Steel Pull Plates 5-6
- Aluminum Pull Plates 6
- Pull Plate with Solid Bar Round Handle 6

V. DOOR PULLS
- Solid Bar Round Pulls 7
- Solid Bar Pull Handles 7
- Solid Bar Ellipse Pull Handles 7
- Heavy Cast Aluminum Door Pull 7
- Night Latch Cylinder Pull 7
- Modern Hospital Double Pull Arm 8
- Modern Hospital Double Pull Arm with Push Plate 8

VI. DOOR KNOCKERS / DOOR VIEWERS
- Solid Brass Door Knockers 8
- Door Knocker with Viewers 8-9
- Brass Door Viewers 9
- UL Listed Door Viewers 9
- UL Listed, Privacy Door Viewer 10
- Door Viewer Covers 10
- Electronic Digital Door Viewer 10

VII. DOOR GUARDS
- Privacy Door Latch 10
- Privacy Door Latch Disengage Tool 10
- Solid Brass Chain Door Guard 11
- Zinc Diecast Swing Bar Door Guard 11
- Diecast Swing Bar Door Guard 11
- Solid Brass Door Guard with Angle Protector 11
- Door Angle Protector 11
- Door Guard Shims 11

VIII. SLIDING DOOR LOCKS
- Heavy Duty, Privacy Sliding Door Locks 12
- Heavy Duty, Passage Sliding Door Locks 12
- Privacy Sliding Door Locks 12-13
- Passage Sliding Door Locks 12-13
- Dummy Sliding Door Locks 13
- Edge Pull, Flush Mount 13

IX. SECURITY BOLTS
- Solid Brass Decorative Dutch Door Bolts 14
- Brass Surface Bolts 14
- Decorative Surface Bolts 14
- UL Listed 8” Surface Bolt 15
- UL Listed, Heavy Duty 8” & 12” Surface Bolts 16

X. FLUSH BOLTS

SECURITY FLUSH BOLTS
- Steel / Solid Brass, Flush Bolt Round End 14
- Solid Brass, Flush Bolt Square End 14
- Solid Brass,Single Route Flush Bolt 15
- Solid Brass, Single Route Extention Flush Bolt 15
- Flip Style Mortise Flush Bolt 15
- Flip Style Mortise Flush Bolt with 18” Extension Rod 15
- Diecast Base, Single Route Flush Bolt 15
- UL Listed, Solid Brass Lever Extension Flush Bolts 16
- Stamped Brass Commercial Manual Flush Bolt 16
- UL Listed, Stainless Steel Flip Style Mortise Flush Bolt ... 16

AUTO FLUSH BOLTS
- Metal Door Automatic Flush Bolts..... 17
- Wood Door Automatic Flush Bolts..... 17

COMBINATION FLUSH BOLTS
- Metal Door Self-Latching Flush Bolts..... 17
- Wood Door Self-Latching Flush Bolts..... 17

UNIVERSAL FLUSH BOLTS
- Metal and Wood Door Universal Flush Bolts..... 18

XI. DOOR COORDINATORS
- UL Listed, Gravity Coordinator 19
- UL Listed, Door Coordinator with Filler Bar 19
- Universal Door Coordinator..... 19
- Carry Bars 19
- Mounting Brackets 19

XII. HANDRAIL BRACKETS
- Jumbo Heavy Duty Handrail Bracket 20
- Heavy Duty Cast Aluminum Handrail Bracket 20
- Heavy Duty Handrail Bracket 20
- Heavy Duty Cast, ADA-Approved Handrail Bracket 20

The illustration and technical description in this Specification sheet is current as of date in the version box above. Cal-Royal Products, Inc. reserves the right to and may frequently make changes and/or improvements in designs and dimensions.

TABLE OF CONTENTS

XIII. DOOR STOPS

WALL DOOR STOPS / BUMPERS

Solid Brass / Stainless Steel Concave Wall Stops 21
Solid Brass / Stainless Steel Convex Wall Stops 21
Commercial Grade Heavy Duty Wall Door Stops 21
Solid Brass, Curved Roller Stop 22
Solid Brass, Straight Roller Stop 22
Solid Brass, Rigid Door Stops 22
Flexible Door Stop 22
Cast Rigid Door Stop 22
Heavy Duty, Flexible Door Stops 22
Heavy Duty, Jumbo Spring Door Stop 22
Diecast, Rigid Jumbo Door Stop 22
Stainless Steel, Wall Door Stops 22-23

FLOOR DOOR STOPS

Commercial Grade Heavy Duty Floor Door Stops 23
Security Door Stops 23
Goose Neck Floor Stops 25
Small Goose Neck Floor Stops 25
Solid Brass Dome Stops 24
Heavy Duty Cast Brass Dome Stop 24
Casted Zinc Dome Stops 24
Heavy Duty Casted Zinc Dome Stop 24
Risers for Dome Stops 25
Stainless Steel, Floor Stops 25-26

DOOR HOLDER / STOPS

Solid Brass, Kick Down Door Holders 26-27
Zinc Diecast, Kick Down Door Holder 27
Vinyl Rubber Stops 26-27
Cast Iron, Kick Down Door Holders 27
Heavy Duty Commercial Grade Door Stops 27

HINGE PIN DOOR STOPS

Jumbo Heavy Duty Hinge Pin Door Stop 28
Jumbo Hinge Pin Door Stops 28
Deluxe Hinge Pin Door Stops 28
Light Duty Hinge Pin Door Stop 28
Heavy Duty Hinge Pin Door Stop 28
Hinge Pin Door Stop 28

XIV. CLOSET HARDWARE

CLOSET ROD & SHELF SUPPORTS

Oval Closet Rods 29
Adjustable Shelf and Rod Supports 29
Adjustable Closet Rods 29
Adjustable Shelf Support Only 29
Single Shelf & Rod Support 29
Heavy Duty Shelf & Rod Support 29
Chrome Plated Closet Rods 30

POLE SOCKETS

Chrome Plated Closet Pole Socket 30
Heavy Duty Die Cast Closet Pole Socket 30
Nylon Closet Pole Socket 30
Steel Closet Pole Socket 30
Wood Closet Pole Socket 30

CATCH AND LATCHES

Jumbo Roller Catch..... 31
Solid Brass, Adjustable Ball Catch 31
Adjustable Ball Catch with Full Lip Strike 31

XIV. CLOSET HARDWARE

CATCH AND LATCHES

Adjustable Drive-In Ball Catch 31
Adjustable Roller Latch 31
Bullet Catch 32
Heavy Duty Magnetic Dual Triple Pole Catch 32
Triple Pole Magnetic Catch 32

PULLS

Solid Brass Drawer Pulls 32
Bi-Fold Ball Knob 32
Back Plate for BK14 32
Bi-Fold Concave Knob Beveled Edge 33
Drive in Finger Pull 33
Solid Brass Flush Pulls 33
Stainless Steel Flush Cup Pull 33

COAT AND HAT HOOKS 34-35

XV. DOUBLE-ACTING FLOOR SPRING HINGE 36

XVI. CRASH CHAIN AND BOLTS

Single Spring Crash Chain Door Guards 36
Super Heavy Duty Chain Door Stop 36
24" Chain Bolt Hardened Steel 36

XVII. OVERHEAD DOOR HOLDER & STOPS

Surface Overhead Door Stop, UL Listed 37-38
Surface Overhead Door Holder with Hold-Open 37-38
Concealed Overhead Door Stop, UL Listed 39-40
Concealed Overhead Door Holder with Hold-Open 39-40

XVIII. SIGNS

HANDICAP RESTROOM SIGNS (ADA) WITH BRAILLE

Men Signs 41-42
Boys Signs 41-42
Women Signs 41-42
Girls Signs 41-42
Unisex Restroom Signs 41-42
No Smoking Sign 41
Exit Signs 41
Restroom Text Sign 41
All Gender Restroom Signs 41

DECALS AND STICKERS

Blue Square Plastic Sign & Handicap Logo 42
Blue Insignia Handicap Logo 42
These doors ... unlocked during business hours..... 42
These doors..unlocked when building is occupied..... 42
This door... unlocked during business hours..... 42
This door ... unlocked when building is occupied..... 42

CALIFORNIA-APPROVED RESTROOM SIGNS WITH BRAILLE

Men Signs 43
Women Signs 43
Handicap Accessible Sign 43
Unisex Restroom Handicap Sign 43
Restroom Signs..... 43
Exit Sign 43

XIX. SLIDING DOOR HARDWARE

SDH SERIES 44-47
BDH SERIES 48-50
SDH AND BDH SERIES ACCESSORIES 51-53

The illustration and technical description in this Specification sheet is current as of date in the version box above. Cal-Royal Products, Inc. reserves the right to and may frequently make changes and/or improvements in designs and dimensions.

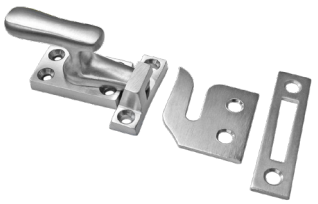
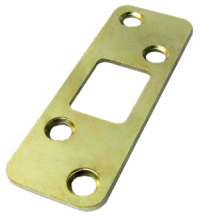
NUMBERS AND LETTERS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Solid Brass Numbers**	Height: 2” Thickness: 3/16” Width: Varies	SBN2	US3
		Height: 3” Thickness: 3/16” Width: Varies	SBN3	US3, 10B, US15
		Height: 4” Thickness: 3/16” Width: Varies	SBN4	US3, 10B, US15,26
		Height: 8” Thickness: 3/16” Width: Varies	SBN8	US3
	**Diecast Numbers**	Height: 5” Thickness: 7/32” Width: Varies	ZN5	US3, 10B, US15
	**Solid Brass Letters**	Height: 2” Thickness: 7/32” Width: Varies	SBL2	US3
		Height: 3” Thickness: 7/32” Width: Varies	SBL3	US3 (A-Z) US15 (A-H) US10B (A-F)
		Height: 4” Thickness: 7/32” Width: Varies	SBL4	US3 (A-Z) US15, 10B, US26 (A-F)
	**Diecast Numbers (0-9) and Letters (A-F)**	Height: 4” Thickness: 3/32” Width: Varies	PN20BK	Black
			PN20US3	US3
	**Floating Modern Numbers (0-9)** ***Zinc Alloy Material*** ***(for Floating or Flush mount installations)*** ***NEW ITEM***	Height: 5” Thickness: 5/16” Width: Varies	MDN5US1	US1
			MDN5US15	US15

Individually Poly-bagged. Packed with Flat Head Screws.
Modern Numbers packed with screws with sleeve for flushed or floating mount installations.

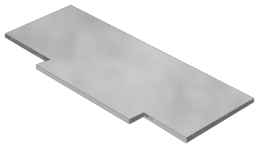
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MISCELLANEOUS DOOR AND WINDOW HARDWARE

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Window Casement Fasteners, Solid Brass** ▶ *Packed with screws and two strikes* ▶ *Conforms to ANSI / BHMA A156.16* ▶ *Architectural finishes available*	Dimensions: 1 5/8" x 7/8" Projection: 1 3/8"	SBCF222	US3, 5, 10B, US15, 15A, US19, US26, US26D
		Dimensions: 2 1/16" x 1 1/16" Projection: 1 7/8"	SBCF333	
	**Door / Window Casement Security Latch Lock**	Bolt Projection: 1/2" Escutcheon Dim.: 7/8" x 1 11/16" Thumbturn: 5/8" x 1" Strike: 7/8" x 1 3/4"	DL402361	US3, 5, US10B, 15, US26, 26D
	**Template ASA Strike, Stainless Steel**	Dimensions: 4 7/8" x 3 3/8" x 1 1/4"	ASA478	US32D
	Template ASA Strike, Solid Brass			US3, 10, US10B, 26
	Template ASA Strike, Steel Base		ASAST	US3, 10, US10B, 26, US26D, 1
	**Extended Lip ANSI Strike, Stainless Steel**	Dimensions: 4 7/8" x 3 3/8" x 1 1/4", 1 3/4" Lip Extension from Screw Center Line	EXASA-175	US32D, Duro
	**Flat Strike, Stainless Steel** ▶ *To be used for pair of doors on inactive door, not to cut out the flat astragal* ▶ *Packed with screws*	Dimensions: 4 7/8" x 3 3/8" x 1 1/4", 4 1/8" CTC	FLAST-46	US32D, US10B
	**Heavy Duty Security Strike** ▶ *Includes:* *2 pcs #10 x 2 1/2" and* *2 pcs #10 x 3/4" Wood Screws*	Dimensions: 3 5/8" x 1 7/8"	SDTP3625	US3, 26, 15, US10B,15A
	**Deadbolt Security Strike** ▶ *Includes:* *2 pcs #12 x 3" and* *2 pcs #12 x 1 1/4" Wood Screws*	Dimensions: 3 5/8" x 1 1/4"	SS114358	US3, 5, US10B, US15, 26D

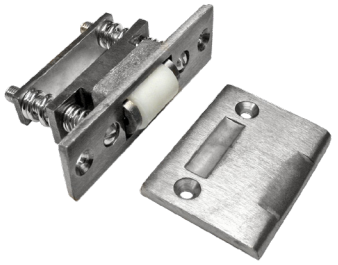
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MISCELLANEOUS DOOR AND WINDOW HARDWARE

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Drive In Thimble Strike** ▶ *Steel Construction* ▶ *ZINC Plated* ▶ *With 1 ¼" Screw*	Dimensions: Length: 1 ⅛" Diameter: 1"	DTS80	Zinc
	**ASA Blank Filler Plate for Door Frames**	Dimensions: 1 ¼" x 4 ⅞"	ASA-FP	---
	**Strike Filler for Door Frames**	Dimensions: 1 ¼" x 4 ⅞" 1 ⅝" at Lip Thickness: 10 Ga.	SF	---
	**Door Silencer for Metal Frames** ▶ *Absorbs shock and reduce noise of door closing* ▶ *Prevents door rattling* ▶ *Provides tension for door latches / locks* ▶ *Conforms to ANSI / BHMA A156.16, L03011*	Dimensions: Length: ½" Diameter: ½"	DSM21	Rubber
	**Door Silencer for Wood Frames** ▶ *Absorbs shock and reduce noise of door closing* ▶ *Prevents door rattling* ▶ *Provides tension for door latches / locks* ▶ *Conforms to ANSI / BHMA A156.16, L03021*	Dimensions: Length: ¾" Base: ⅜" x ¾"	DSW85	Rubber
	**Latch Guard Protector with Lock Cut-Out** ▶ *For out-opening doors* ▶ *For use with deadbolts and cylindrical locksets with 2 ¾" backset* ▶ *Conforms with ANSI / BHMA A156.2 Series 4000*	Dimensions: 2 ⅞" x 11"	LPG2	USP, Alum Duro, Gold

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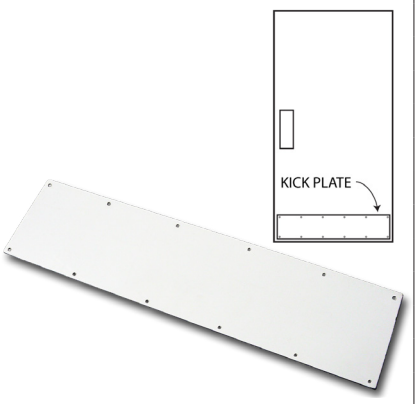
MISCELLANEOUS DOOR AND WINDOW HARDWARE

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Latch Guard Protector with Security Frame Pin** ▶ *For out-opening doors* ▶ *For use with mortise or cylindrical locks* ▶ *Used with security frame pin to prevent separation of the door and frame* ▶ *Conforms with ANSI / BHMA A156.2 Series 4000* ▶ *Similar to Glynn Johnson #LP1*	Dimensions: 3" x 11 ½"	GJLPG2	US32D
 NEW ITEM	**Latch Guard Protector with Escutcheon Cut-Out** ▶ *For out-opening doors* ▶ *For use with mortise, dead-bolts, and cylindrical locksets with 2 ¾" backset* ▶ *Conforms with ANSI / BHMA A156.2 Series 4000*	Dimensions: 3 ½" x 11 ¾"	LG28	Alum, Duro, Gold, US26D
	**Brass Dust Proof Strike** ▶ *Spring tension calibrated for positive closing and eliminates binding* ▶ *Can be locked in up position* ▶ *Conforms to ANSI / BHMA A156.16 L14011*	Dimensions: Face Plate: 1 ⅜" x 2 ⅞" Barrel: 1" dia. Depth: 2 ¼"	DPSTRK1	US26D, 26, US3, 10B
	**Heavy Duty Roller Catch** ▶ *Adjustable Nylon Roller with Square Heavy Duty Cast 2 ¼" Full-lip Strike* ▶ *Conforms to ANSI / BHMA A156.16, E19091*	Dimensions: Face Plate: 1" x 3 ⅜" Full Lip Strike: ⅛" x 1" x 3 ⅜" Depth: 1 13/16"	ARL-1338	US3, 26, US19, 15, US5, 15A, US10B, 26D
	**Optional T-Strike for Heavy Duty Roller Catch ARL1338** ▶ *Architectural finishes available* ▶ *Packed with screws*	Dimensions: 2 ¾" x 1 ½" x 1 ¾"	ARLTSTRK62	US3, 26, US19, 15, US5, 15A, US10B, 26D

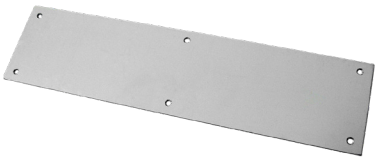
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Anti-Microbial Coating on Push / Pull Plates US32D Only.
Use part # "**ANTB-PLATE**" when ordering.

KICK / ARMOR PLATES

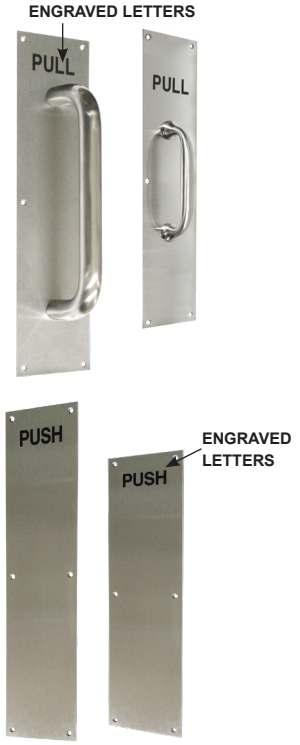
ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Stainless Steel Kick Plates** ▶ *Conforms to ANSI / BHMA J102* ▶ *Packed with #6 x ⅝" screws* ***UL Listed Label Option on all Kick Plates not exceeding 16" in height.*** **Prefix "UL" before part number when ordering.** **Example: BKICK1034 US32D with UL Label will be "ULBKICK1034 US32D"**	0.050" x 4" x 34"	BKICK434	US32D
		0.050" x 8" x 22"	BKICK822	
		0.050" x 8" x 26"	BKICK826	
		0.050" x 8" x 28"	BKICK828	
		0.050" x 8" x 30"	BKICK830	
		0.050" x 8" x 32"	BKICK832	
		0.050" x 8" x 34"	BKICK834	
			KICK834	US10B
		0.050" x 10" x 22"	BKICK1022	US32D
		0.050" x 10" x 26"	BKICK1026	
		0.050" x 10" x 28"	BKICK1028	
		0.050" x 10" x 30"	BKICK1030	
		0.050" x 10" x 32"	BKICK1032	
		0.050" x 10" x 34"	BKICK1034	
			KICK1034	US10B
		0.050" x 10" x 40"	BKICK1040	US32D
		0.050" x 10" x 42"	BKICK1042	
		0.050" x 10" x 46"	BKICK1046	
		0.050" x 12" x 34"	BKICK1234	
		0.040" x 8" x 34"	AKICK834	
		0.040" x 10" x 34"	AKICK1034	
	Aluminum Kick Plate ▶ *Conforms to ANSI / BHMA A156.6* ▶ *dized Aluminum finish* ▶ *Packed with #6 x ⅝" screws*	0.032" x 6" x 34"	ANO634	US3 / US4, US10B, 15, US1
		0.032" x 8" x 34"	ANO834	
		0.032" x 10" x 34"	ANO1034	
	Stainless Steel Armor Plates ▶ *Conforms to ANSI / BHMA J101* ▶ *Packed with #6 x ⅝" screws*	0.050" x 34" x 34"	BARM3434	US32D
		0.050" x 34" x 36"	BARM3436	US32D

PUSH / PULL PLATES

	**Push Plate** ▶ *Individually packed with protective film and screws* ▶ *Easy installation* ▶ *Conforms to ANSI / BHMA A156.6* ▶ *Architectural finishesavailable*	0.050" x 3 ½" x 15"	PSPL3515	US32D, US10B,10, US5, 4, 3, US26, 1
		0.050" x 4" x 16"	PSPL4016	
	**Pull Plate** ▶ *One piece mounted* ▶ *Packed with pull handle, fasteners and washers* ▶ *Conforms to ANSI / BHMA A156.6* ▶ *Architectural finishes available*	0.050" x 3 ½" x 15"	PULPL3515	US32D, US10B,10, US5, 4, 3, US26, 1
		0.050" x 4" x 16"	PULPL4016	

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PUSH / PULL PLATES

ILLUSTRATION	ITEM	SIZE			ITEM #	FINISH
 NEW ITEM	**Aluminum Pull Plate** ► *One piece mounted* ► *Packed with pull handle, fasteners and washers* ► *Conforms to ANSI / BHMA A156.6* ► *Architectural finishes available*	0.050" x 3 ½" x 15"; 7" Aluminum Handle			PULPL715	US1
		0.050" x 4" x 16" 9" Aluminum Handle			PULPL916	
	**Stainless Steel Push / Pull Plate** ► *BHMA: J303* ► *Fasteners: Six (6) #6 x ⅝" OPH tapping screws*	Plate: 3 9/16" x 16 5/16" Projection: 1 ⅛" (29 mm) Gauge: 0.125" (3.5 mm)			CMBOPUL3516	US32D
	**Pull Plate Solid Bar Round 1000 Series** ► *Meets ANSI 156.6 for J401 Pulls* ► *18 Gauge (0.050") Plate* ► *Clearance from plate to handle:* *ADA: 1 ⅞"* *Non-ADA: 1 ½"* ***ADA - Americans with Disabilities Act Approved**	¾" dia. 6"CTC	2 ¼" Proj.	3.5" x 15"	1000	US32D, US10B, 3
				4" x 16"	1001	
			2 ⅝" Proj.		1001ADA*	US32D
		¾" dia. 8"CTC	2 ¼" Proj.	3.5" x 15"	1002	US32D, US10B, 3
				4" x 16"	1003	
			2 ⅝" Proj.		1003ADA*	US32D
		1" dia. 8"CTC	2 ½" Proj.	3.5" x 15"	1004	US32D, US10B, 3
				4" x 16"	1005	
			2 ⅞" Proj.		1005ADA*	US32D
		1" dia. 10"CTC	2 ½" Proj.	3.5" x 15"	1006	US32D, US10B, 3
				4" x 16"	1007	
			2 ⅞" Proj.		1007ADA*	US32D
	**Stainless Steel Pull Plate** ► *With ¾" "PULL" engraved in black color* ► *BHMA: J401* ► *Fasteners:* ***a. Round Pull Bar Plates:*** » *(6) #6 x ½" SS screws;* » *(2) # ¼"-20 x 2 ½" Steel screws;* » *(2) Steel washers* ***b. Ellipse Pull Bar Plates:*** » *(6) #6 x ½" SS screws;* » *(2) # 10-32 x 2 ¼" Steel screws;* » *(2) Steel washers* ***ADA - Americans with Disabilities Act Approved**	¾" dia. 6"CTC	3 ½" x 15" Projection: 2 ¼"		PULL1000	US32D
			4" x 16" Projection: 2 ⅝"		PULL1001ADA*	
		¾" dia. 8"CTC			PULL1003ADA*	
		1" dia. 8"CTC	4" x 16" Projection: 2 ⅞"		PULL1005ADA*	
		1" dia. 10"CTC			PULL1007ADA*	
		ELLIPSE BAR 6"CTC	3 ½" x 15" Projection: 1 ¾"		PULL001	
			4" x 16" Projection: 1 ¾"		PULL002	
	Stainless Steel Push Plate ► *ANSI / BHMA A156.6* ► *With ¾" "PUSH" engraved in black color*	3 ½" x 15"			PUSH003	US32D
		4" x 16"			PUSH004	

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DOOR PULLS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Solid Bar Round Pull** ► *Stainless Steel, Brass and Aluminum material* ► *Type 1 Thru-Bolt Mount for 1 ¾" thick doors* ► *Individually packed* ► *Easy installation* ► *Architectural finishes available*	1" diameter, 10" CTC Projection: 2 ½"	PUL200	US3, 32D
		1" Diameter, 8" CTC Projection: 2 ½"	PUL201	
	**Solid Bar Round Pull** ► *Stainless Steel, Brass and Aluminum material* ► *Type 1 Thru-Bolt Mount for 1 ¾" thick doors* ► *Individually packed* ► *Easy installation* ► *Architectural finishes available*	¾" Diameter, 10" CTC Projection: 2 ¼"	PUL202	US3, 32D
		¾" Diameter, 8" CTC Projection: 2 ¼"	PUL203	US3, 10B, US32D, 28
		¾" Diameter, 6" CTC Projection: 2 ¼"	PUL204	US3, 10B, US32D, 28
		¾" Diameter, 5 ½" CTC Projection: 2 ¼"	PUL205	US3, 15, 10B, US32D, 28
		⅝" Diameter, 5 ½" CTC Projection: 2"	PUL206	US3, 10B, US32D, 28
	**Solid Bar Pull Handle** ► *Stainless Steel, Brass and Aluminum material* ► *Type 1 Thru-Bolt Mount for 1 ¾" thick doors* ► *Individually packed* ► *Easy installation* ► *Architectural finishes available*	⅜" x 1 ¼", 10" CTC Projection: 2"	PUL207	US3, 10B, US15, 28
		⅜" x 1 ¼", 8" CTC Projection: 2"	PUL208	US3, 10B, US15, 28
		⅜" x 1 ¼", 6" CTC Projection: 2"	PUL209	US3, 10B, US15, 26, 28
	**Solid Ellipse Pull Handle** ► *Stainless Steel, Brass and Aluminum material* ► *Type 1 Thru-Bolt Mount for 1 ¾" thick doors* ► *Individually packed* ► *Easy installation* ► *Architectural finishes available*	⅛" x ½" Ellipse, 5 ⅛" CTC Projection: 1 ¾"	PUL210	US3, 28
		¾" x ½" Ellipse, 5 ½" CTC Projection: 1 ¾"	PUL211	US3, 10B, US15, 26, US32D
	**Heavy Cast Aluminum Door Pull** ► *Exposed Screws* ► *Thru-Bolt option included for heavy duty installation*	7 ⅜" x 1 ½" Projection: 2 1/16"	PULL715	Alum, Duro
NEW ITEM 	**Night Latch Cylinder Pull** ► *Stainless Steel* ► *Individually poly-bagged* ► *Surface Mounting* ► *Accepts Rim Cylinder* ***(order separately)***	Cylinder Hole: 1 3/16" diameter Height: 3 ½" Pull Projection: 1"	PUL-175	US32D, US10B

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DOOR PULLS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Modern Hospital Double Pull Arm** ▶ *with **Microban Anti-Microbial Coating*** ▶ *Aluminum Material* ▶ *Meets ANSI 156.6 for J401 Pulls* ▶ *Type 1 Thru-Bolt and Finish Washer for 1 ¾" thick doors* ▶ *Individually packed with guide sticker* ▶ *Easy installation*	8 ½" x 1", 5 ¼" CTC Material Size: ⅜" x 1" Projection: 3 ¾"	HPUL-850 ***NEW ITEM***	US15, US1
	**Modern Hospital Double Pull Arm with Push Plate** ▶ *Push plate packed together with **HPUL-850*** ▶ *Covers any exit hole from the inside* ▶ *Easy Installation*	Push Plate Size: 0.050" x 3 ½" x 15"	HPUSH-3515	US32D, US1
		Push Plate Size: 0.050" x 4" x 16"	HPUSH-4016	

DOOR KNOCKERS AND VIEWERS

	**Solid Brass Door Knocker** ▶ *Conforms to ANSI / BHMA A156.16 L23151* ▶ *Architectural finishes available* ▶ *Similar to IVES #3125*	Dimensions: 3" x 6 ⅜" Screw Holes: 4 ⅛" CTC	SBDK356	US3, 5, 10B, US26, 26D, US15, 15A
	**Solid Brass Door Knocker** ▶ *Conforms to ANSI / BHMA A156.16 L23151* ▶ *Similar to IVES #3102*	Dimensions: 2 ⅛" x 3 ¾" Screw Holes: 3 ⅜" CTC	SSBDK234	US3,10B, US15
OPTIONAL UL 	**Door Knocker with 160° Viewer** ▶ *Conforms to ANSI / BHMA A156.16 L23151* ▶ *Diecast material* ▶ *ULDK93 is UL Listed for 90-minute doors* ▶ *Architectural finishes available* ▶ *UL Listed*	for Doors: 1 ⅜" - 1 ¾" thick Dimensions: 1 ¾" x 4" Screw Holes: 2 ½" CTC	DK93 (Non-UL)	US3, 5, 26D, US10B, 15, US15A
			ULDK93 (UL-Listed)	US3, 5, 26D, US10B, 15

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DOOR VIEWERS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Door Knocker With 180° Viewer** ► *Conforms to ANSI / BHMA A156.16 L23151* ► *Diecast material* ► *Architectural finishes available*	Bore: 9/16” Size: 2 3/8” x 5 1/2” for Doors: 1 3/8” - 1 3/4” thick Screw Holes: 3 3/8” CTC Non UL	DK94	US3, 5, 26D, US10B, 15, US15A
	**Brass Door Viewer, 160° Plastic Lens** ► *Conforms to ANSI / BHMA A156.16 L23172* ► *Architectural finishes available*	Bore: 1/2” for Doors: 1 3/8” - 2 1/4” thick	DV90	US3, 5, 26, US26D, 15, US10B, 19
	**Brass Door Viewer, 180° Plastic Lens** ► *Conforms to ANSI / BHMA A156.16 L23172* ► *Architectural finishes available*	Bore: 1/2” for doors: 1 3/8” - 2” thick	DV91	US3, 5, 26, US26D, 15, US10B, 19
	**Brass Door Viewer, 180° Plastic Lens** ► *Conforms to ANSI / BHMA A156.16 L23172* ► *Architectural finishes available*	Bore: 9/16” for doors: 1 3/8” - 2” thick	DV180	US3, 5, 26, US26D, 15, US10B, 15A, US19
	**Door Viewer, 160° Glass Lens** ► *UL Listed For 90-Minute Doors* ► *Conforms to ANSI / BHMA A156.16 L23172* ► *Architectural finishes available*	Bore: 1/2” for doors: 1 3/8” - 2” thick	ULDV160	US3, 15, 26, US26D, 10A, US10B, 19
	**Door Viewer, 200° Glass Lens** ► *UL Listed For 90-Minute Doors* ► *Conforms to ANSI / BHMA A156.16 L23172* ► *Architectural finishes available*	Bore : 9/16” for doors: 1 3/8” - 2 1/4” thick	ULDV200	US3, 15, 26, US26D, 10A, US10B, 19
		Bore : 9/16” for doors: 1”- 1 3/8” thick	10ULDV201	US3, 15, US26D,10B

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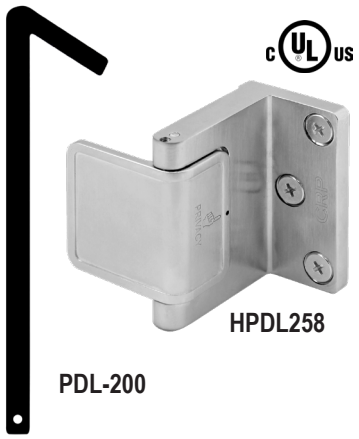
DOOR VIEWERS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**200° Door Viewer with Heavy Duty Privacy Cover** ▶ *UL Listed for 20 minutes* ▶ *Architectural finishes available*	1" Head diameter Bore: 9/16" for doors: 1 3/8" - 2 1/4" thick	PRIULDV200	US3, 10B, US15, 26, US26D, US4, 19
 COV160 COV200	**Door Viewer Cover** ▶ *to be used with DV90, DV91, ULDV160 door viewers* ▶ *Architectural finishes available*	Cover: 1/2"	COV160	US3, 15, US10B, US26D
	Door Viewer Cover ▶ *to be used with DV180, ULDV200, 10ULDV201 door viewers* ▶ *Architectural finishes available*	Cover: 9/16"	COV200	

ELECTRONIC DIGITAL DOOR VIEWER

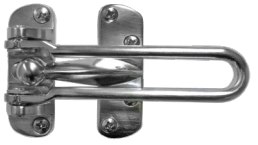
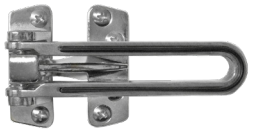
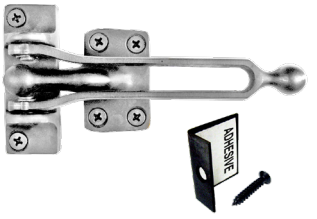
	**Electronic Digital Door Viewer** ▶ *Supported Existing Door Bores* ▶ *Fully Integrated Digital Camera and LCD Display* ▶ *Quick and Easy Installation* ▶ *Clear Large Image 0.3 Mega Pixels CMOS Resolution* ▶ *Easy Operation* ▶ *Convenient for children and elderly* ▶ *Provides additional privacy* ▶ *3 x AA Batteries*	• 1/2" - 1 1/8" Diameter (13mm - 29mm) • 3.5" TFT, (90mm) • 320x240 resolution LCD Viewer Screen size • 8.5oz (240g) Net Weight	ELDVBEL150	Silver, Duro, Gold

DOOR GUARDS

 HPDL258 PDL-200	**Privacy Door Latch** ▶ *Zinc Diecast material* ▶ *UL Listed* ▶ *Architectural finishes available*	Height: 2 1/8" Width (Base): 1 1/2" Weight: 0.65 lbs/unit Opening Angle: 87°	HPDL258	US3, 4, US10B, 26, US26D, 19
	HPDL Disengage Tool ▶ *Steel material*	Height: 9 1/2" Width: 1/2" Hook Length: 2 1/2" Thickness: 0.016"	PDL-200 NEW ITEM	None

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DOOR GUARDS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Solid Brass Chain Door Guard** ▶ *Welded solid steel chains to prevent forced entry* ▶ *Conforms to ANSI / BHMA A156.16* ▶ *Architectural finishes available*	Chain: 6 ¾"	DG22	US3, US5, US26
	**Zinc Diecast Swing Bar Door Guard** ▶ *Ball Bearing Stop Guide* ▶ *Diecast material* ▶ *Architectural finishes available*	2 1/16" x 4 ¼"	BBDHG88	US3, 4, 5, US26, 26D, US10B, US1
	**Diecast Swing Bar Door Guard** ▶ *Protective rubber insert on both sides of arm* ▶ *Architectural finishes available*	2 ½" x 4 ½"	PDG88	US3, 4, 10B, US26, 26D
	**Solid Brass Door Guard Packed With Angle Protector** ▶ *Ball Bearing stop guide* ▶ *Packed with Door Angle Protector to avoid scarring the door or frame* ▶ *Conforms to ANSI / BHMA A156.16* ▶ *Architectural finishes available*	Arm length: 4 ¾"	SBDG00	US26D, 3, 4, US26, 10B, US1, 15
	**Door Angle Protector** ▶ *Door angle protector comes with adhesive and individual screw for secure mounting* ▶ *Designed for use with BBDHG88 and PDG88* ▶ *Architectural finishes available*	Thickness: 0.036" Dimensions: ½" x 1" x 1 ⅛"	DAP77	US26D, 26, US3, 4, 5, US10B
	**Door Guard Shim** ▶ *To be used when face of door is recessed from face of jamb* ▶ *Fits under Door Guard* ▶ *Use with BBDHG88 and PDG88*	Dimensions: ⅝" x 2 5/16" Thickness: ⅛"	DGS39	Black
	**Door Guard Shim** ▶ *To be used when face of door is recessed from face of jamb.* ▶ *Fits under Door Guard sector which attaches to door* ▶ *Use with SBDG00*	Dimensions: 1 ⅛" x 1 11/16" Thickness: ⅛"	DGS100	Black

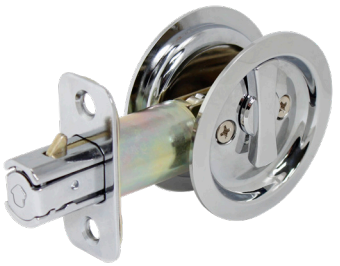
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SLIDING DOOR LOCKS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Heavy Duty Privacy Sliding Door Lock Function** ► *Heavy Duty* ► *Privacy sliding door lock function* ► *Easy installation onto pocket-type interior doors with just a simple cut in door edge* ► *Architectural finishes available*	Standard Door Prep: 2 ⅞"(L) x 1 ¾"(W) can be used on: 1 ⅜" and 1 ¾" door thickness	PRIPDL21	US3, 5, 26, US26D, 15, US15A, 10B
	**Heavy Duty Passage Sliding Door Lock Function** ► *Heavy Duty* ► *Passage sliding door lock function* ► *Architectural finishes available*	Standard Door Prep: 2 ⅞"(L) x 1 ¾"(W) can be used on: 1 ⅜" and 1 ¾" door thickness	PASPDL34	US3, 5, 26, US26D, 15, US15A, 10B
	**Privacy Sliding Door Lock** ► *Comparable to Quality No. 101* ► *Sliding door lock and pull for passageway (pocket) doors* ► *Decorative Coined Edges* ► *Reversible (Non-Handed)*	Standard Door Prep: 2 ¼" (L) x 1 ¾" (W) For use on doors: 1 ⅜" - 1 ¾" thick Use **SDLPIN** for 1 ¾" doors	SDL16	US3, 5,10B US19, 26, US26D, 15, US15A, US5/26 US3/26
	**Passage Sliding Door Lock** ► *Comparable to Quality No. 100* ► *Sliding door lock and pull for passageway (pocket) doors* ► *Easy installation onto pocket-type interior doors with just a simple cut in door edge*	Standard Door Prep: 2 ¼" (L) x 1 ¾" (W) For use on doors: 1 ⅜ and 1 ¾" thick	SDL17	US3, 5, 10B US19, 26, US26D, 15, US15A, US3/26
	**Strike** ► *Strike for privacy SDL* ► *Architectural finishes available*	Dimensions: 0.046" x 1" x 2 ¼"	STRKSDL	US3, 5, 26, US26D,15, US15A, 10B

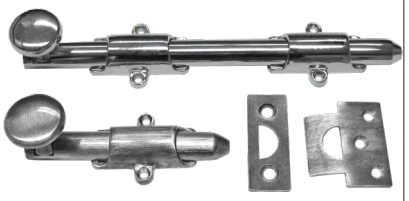
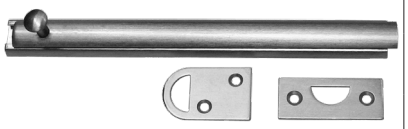
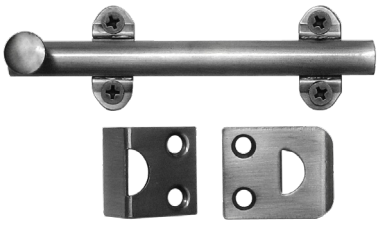
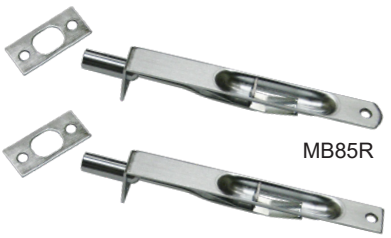
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SLIDING DOOR LOCKS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Edge Pull, Flush Mount** ▶ *Flush Mounted* ▶ *Conforms to ANSI / BHMA A156.14 D2801*	Dimensions: ⅝" x 3 ½" Projection: 1 ¼"	EP23	US5
	**Privacy Sliding Door Lock** ▶ *2 ⅜" Backset* ▶ *With easy pop-up finger pull* ▶ *Easy installation onto pocket-type interior doors*	1 ⅜" to 1 ¾" Door Thickness	18SDLR	US10B, 15 US26, 26D
	Privacy Sliding Door Lock ▶ *2 ¾" Backset* ▶ *With easy pop-up finger pull* ▶ *Easy installation onto pocket-type interior doors*	1 ⅜" to 1 ¾" Door Thickness	20SDLR	US26D
	**Passage Sliding Door Lock** ▶ *2 ⅜" Backset* ▶ *With easy pop-up finger pull* ▶ *Easy installation onto pocket-type interior doors*	1 ⅜" to 1 ¾" Door Thickness	14SDLR	US10B, 15 US26, 26D
	Passage Sliding Door Lock ▶ *2 ¾" Backset* ▶ *With easy pop-up finger pull* ▶ *Easy installation onto pocket-type interior doors*	1 ⅜" to 1 ¾" Door Thickness	30SDLR	US26D
	**Privacy Pocket Door Lock** ▶ *2 ⅜" Backset* ▶ *Auto-catch Lock Mechanism* ▶ *Fits standard 2 ⅛" Door Prep* ▶ *Easy installation onto pocket-type interior doors*	1 ⅜" Door Thickness	RSDL20	US3, 5, US10B, 15, US15A, 19, US26, 26D
		1 ¾" Door Thickness	134RSDL20	
	**Dummy Pocket Door Lock** ▶ *Fits standard 2 ⅛" Door Prep* ▶ *Easy installation onto pocket-type interior doors*	1 ⅜" Door Thickness	RSDL40	US3, 5, US10B, 15, US15A, 19, US26, 26D
		1 ¾" Door Thickness	134RSDL40	

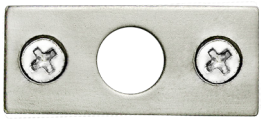
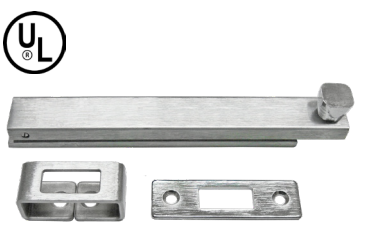
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SECURITY BOLTS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Solid Brass Decorative Dutch Door Bolt** ▶ *Heavy Duty with decorative design adapts to any decor* ▶ *Packed with mortise and universal strikes* ▶ *1 ¼" diameter decorative knob* ▶ *Conforms to ANSI / BHMA A156.16* ▶ *Architectural finishes available*	4"	DDSB4	US3, 5 ,26, US15, 15A, US10B, US1
		8"	DDSB8	
		12"	DDSB12	
		18"	DDSB18	
		24"	DDSB24	
	**Angle Strike** ▶ *Solid Brass Base* ▶ *Packed with screws* ▶ *Architectural finishes available*	Screw Holes: 1 ⅜" CTC	ANGSTRK	US3, 5 ,26, US15, 15A, US10B
	**Brass Surface Bolt** ▶ *Brass construction* ▶ *Packed individually* ▶ *Poly-bagged with 2 strikes and screws* ▶ *Architectural finishes available* ▶ *BHMA L04151*	3"	SB873	US3, 5 ,26, US15, 15A, US10B
		4"	SB874	
		6"	SB876	
		12"	SB8712	
	**Decorative Surface Bolt** ▶ *Packed individually* ▶ *Poly-bagged with 2 strikes and screws* ▶ *Comparable to IVES #043* ▶ *Conforms to ANSI / BHMA A156.16* ▶ *Architectural finishes available*	4"	DCSB4	US3, 5,15, US15A,10B, US26, 26D
		6"	DCSB6	
 NEW ITEM SMB85R	**Steel Flush Bolts (SMB85R) and Solid Brass Flush Bolts (MB85R / MB86S)** ▶ *Designed for superior strength and smooth operation* ▶ *Deep cup finger hole and double action spring combine to assure ease of operation and automatic holding of bolt in either projected or retracted position* ▶ *Includes strike and fastener* ▶ *Architectural finishes available* ▶ *BHMA L04201*	Bolt Head: Diameter: ½" Throw: 1" Length: 6 " Width: ¾"	SMB85R (Round Edge) Steel	US10B, 15, US26D
 MB85R MB86S			MB85R (Round Edge) Solid Brass	US3, 5,10B US15, 15A, US26, 26D, US1
			MB86S (Square Edge) Solid Brass	
	**Strike for MB85R and MB85S** ▶ *Individually poly-bagged* ▶ *Packed with 2 screws* ▶ *Architectural finishes available*	Size: 1" x 2" Screw holes: 1 ⅜" CTC	STRKMB85R	US3, 5, 15, US15A, 26, US26D, 10B

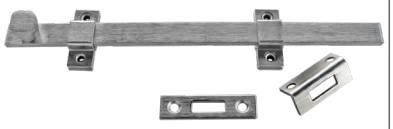
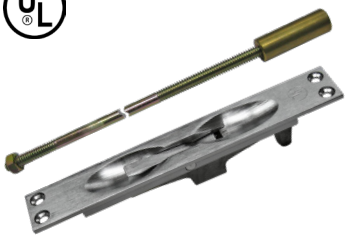
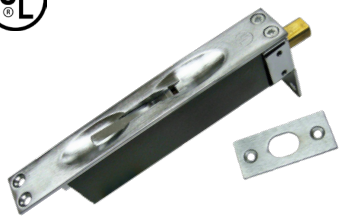
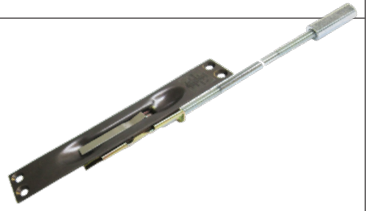
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SECURITY BOLTS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Solid Brass Single Route Flush Bolt** ▶ *Designed for superior strength and smooth operation* ▶ *Individually poly-bagged* ▶ *Packed with strike and 2 sets of screws* ▶ *Architectural finishes available*	Dimensions Length: 7” Width: ¾” Bolt Head Diameter: 5/16” Throw: ¾”	FBG6	US3, 5, 26, US26D, 15, US15A, 10B
	**Strike for FBG6 and FBGEX12** ▶ *Individually poly-bagged* ▶ *Packed with screws* ▶ *Architectural finishes available*	Dimensions 1 ½” x ⅝” Screw Holes 1” CTC	STRKFBG6	US3, 5, 26, US26D, 15, US15A, 10B
	**Solid Brass Single Route Extension Flush Bolt** ▶ *Rounded at both ends* ▶ *Designed for superior strength and smooth operation* ▶ *Individually poly-bagged* ▶ *Packed with strike and 2 sets of screws* ▶ *Architectural finishes available*	Dimensions Length: 7 ½” Width: ¾” Bolt Head Diameter: 5/16” Throw: ⅞” Rod Length: 18”	FBGEX12	US3, 5, 26, US26D, 15, US15A, 10B
	**Flip Style Mortise Flush Bolt** ▶ *Designed for superior strength and smooth operation* ▶ *Individually poly-bagged* ▶ *Packed with strike and 2 sets of screws* ▶ *Architectural finishes available*	Dimensions Length: 7” Width: ¾” Throw: ¾” Strike 1 ½” x ⅝”	FLPFB400	US3,US5, US10B, 15, US15A, 26, US26D
	**Flip Style Mortise Flush Bolt with 18” Extension Rod** ▶ *Designed for superior strength and smooth operation* ▶ *Individually poly-bagged, packed per pair* ▶ *Packed with strike and 2 sets of screws* ▶ *Architectural finishes available*	Dimensions: Length: 7 7/16” Width: ¾” Throw: 11/16”; Strike 1 ½” x ⅝”	EXTFB-1	US3,US5, US10B, 15, US15A, 26, US26D
	**Diecast Base, Single Route Flush Bolt** ▶ *Designed for superior strength and smooth operation* ▶ *Deep cup finger hole and double action spring combine to assure ease of operation and automatic holding of bolt in either projected or retracted position* ▶ *Includes strike and screws* ▶ *Architectural finishes available*	Dimensions Length: 6 ¾” Width: ¾” Bolt Head Diameter: 5/16” Throw: ¾”	ZDFB800	US3, 5, US26, 26D, US15, 10B
	**UL Listed Commercial Surface Bolts** ▶ *Offers tamper-resistant mounting* ▶ *Can be used for both in-swinging and out-swinging doors* ▶ *Available with both mortise and universal strikes* ▶ *Conforms to ANSI / BHMA A156.16, L04161*	Dimensions Length: 8” Width: 1” Bolt Head Dia.: 5/16” Throw: 1” Projection: 1 ⅝”	UL453 **(SBUL8 before)**	US26D

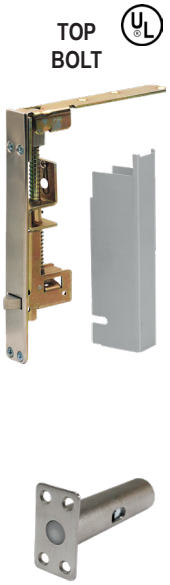
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SECURITY BOLTS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**UL Listed Heavy Duty Commercial Surface Bolts** ▶ *Offers tamper-resistant mounting* ▶ *Can be used for both in-swinging and out-swinging doors* ▶ *Available with both mortise and versal strikes* ▶ *Conforms to ANSI / BHMA A156.16, L04161*	**Dimensions**: Length: 8"; Width: ¾" Projection: 1 5/16" Bolt Throw: 1"	UL831 **(ESBUL50 before)**	US26D
		Dimensions: Length: 12"; Width: ¾" Projection: 1 5/16" Bolt Throw: 1"	UL831-12 **(ESBUL12 before)**	
	**UL Listed Solid Brass Lever Extension Flush Bolt** ▶ *Non-handed* ▶ *UL Listed for fire-rated metal doors* ▶ *⅝" Throw* ▶ *Bolt tip is ½" Diameter* ▶ *Conforms to ANSI / BHMA A156.16, L04081* ▶ *Optional Rod lengths available:* ***12", 18", 24", 36", 48"*** ▶ *Architectural finishes available*	**Body**: Length: 6 ¾"; Width: 1" Depth: 1 ⅛" **Guide**: Length: 2"; Width: 1" Thickness: 5/64" **Strike**: Length: 2 ¼"; Width: 15/16" Thickness: 3/32" **Rod**: ¼" - 20 Threaded	MF6341	US3, 4, 5, US10, 10B, US15, 15A, US26, 26D Almond, White, L1
	**Strike for MF6341** ▶ *Individually poly-bagged* ▶ *Packed with screws* ▶ *Architectural finishes available*	**Dimensions**: 2 ¼" x 15/16" **Thickness**: 3/32" **Screw Holes**: 1 ⅝" CTC	STRKMF	US3, 10B, US15, 26, US26D
	**UL Listed Solid Brass Lever Extension Flush Bolt** ▶ *Commercial Type* ▶ *⅝" Throw* ▶ *Especially designed* ***for wood or composite doors*** ▶ *Conforms to ANSI / BHMA A156.16, L04081* ▶ *Architectural finishes available*	**Body**: Length: 6 ¾"; Width: 1" Depth: 1 ¼" **Guide**: Length: 2 ½"; Width: 1" Thickness: 5/64" **Strike**: Length: 2 ¼"; Width: 1" Thickness: 5/64"	WF6341	US3, 10B, US26, 26D, US15
 **NEW ITEM**	**Stainless Steel, UL Listed Flip Style Mortise Flush Bolt** ▶ *Non-Handed* ▶ *UL Listed No. R14281* ▶ *Bolt tip is ½" Diameter* ▶ *¾" Throw* ▶ *Conforms to ANSI / BHMA A156.16* ▶ *Optional Rod lengths available:* ***12", 18", 24", 36", 48"***	**Body**: Length: 6 ¾"; Width: 1" Depth: 1 **Guide**: Length: 2"; Width: 1" Thickness: 1/16" **Strike**: Length: 2 ¼"; Width: ⅞" Thickness: 1/16" **Rod**: 12" from center of flush bolt to the tip of the bolt	FBS-100	US32D, US10B
	**Stamped Brass Commercial Manual Flush Bolt** ▶ *Non-Handed* ▶ *Stamped Brass Design* ▶ *Bolt tip is ½" Diameter* ▶ *Optional Rod lengths available 18", 24", 36", 48"* ▶ *Architectural finishes available*	**Body**: Length: 6 ¾"; Width: 1" Depth: 1 ¼" **Guide**: Length: 2"; Width: 1" Thickness: 5/64" **Strike**: Length: 2 ¼"; Width: 1" Thickness: 5/64"	SBFB825	US3, 10B, US15, 26D

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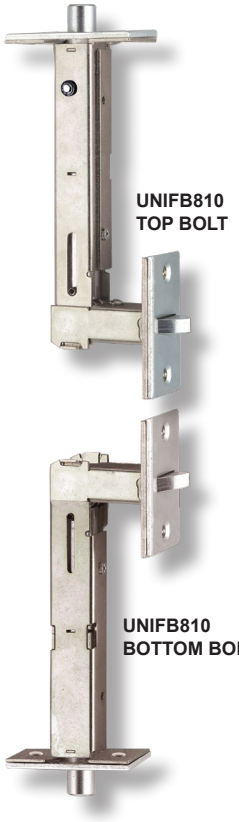
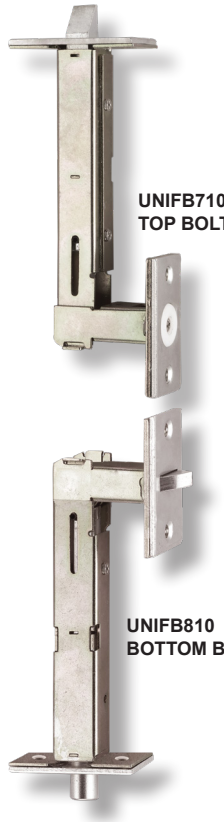
AUTO FLUSH BOLTS

AUTOFLM1	AUXAUTOFLM1	AUTOFLW22	AUXAUTOFLW22	SLAUTOFLM3	SLAUTOFLW4	AUXSLAFLM3	AUXSLAFLW4
							

FEATURES AND CONSTRUCTION	AUTOFLM1	AUXAUTOFLM1	AUTOFLW22	AUXAUTOFLW22	SLAUTOFLM3	SLAUTOFLW4	AUXSLAFLM3	AUXSLFLW4
UL Listed for (A, B, C, D and E Label) metal fire doors, maximum 8' in height. Conforms to UL10C and UBC 7-2-1997.	✓	✓			✓		✓	
UL Listed for (B, C, D and E Label) wood composite core fire doors, maximum 8' in height. Conforms to UL10C and UBC 7-2-1997.			✓	✓		✓		✓
Fits standard and ANSI preparation for wood doors.			✓	✓		✓		✓
Fits standard and ANSI preparation for metal doors.	✓	✓			✓		✓	
Override feature, prevents damage to doors of frame in case the strike and bolt are not aligned.	✓	✓	✓	✓	✓	✓	✓	✓
Reversible, Non-Handed.	✓	✓	✓	✓	✓	✓	✓	✓
Steel body with stainless steel components, especially designed thermal lock automatically locks inactive door in case of fire.	✓	✓	✓	✓	✓	✓	✓	✓
Smooth easy action, requires 5 lbs of force to actuate cam and piston mechanism, therefore meeting ADA regulations.	✓	✓	✓	✓	✓	✓	✓	✓
Fully automatic, when active door is opened top and bottom bolts are automatically retracted for easy egress. When active door is closed ¾" bolt projects into the frame, securing latching of inactive leaf.	✓	✓	✓	✓	✓	✓	✓	✓
Bolts have 1" vertical adjustment without removing door from frame for unusual conditions.			✓	✓		✓		✓
Bolts have ¾" vertical adjustment without removing door from frame for unusual conditions.	✓	✓			✓		✓	
Available in Architectural Finishes. Packed 2 bolts per box with composite installation template.	✓		✓		✓	✓	✓	
Available in Architectural Finishes. Packed 1 top bolt and 1 auxiliary fire latch per box with composite installation template. Used where a fire-rating application without a bottom bolt is required. The auxiliary fire latch, mounted in the door edge, releases under extremely high temperatures to keep the doors in alignment during a fire.		✓		✓			✓	✓

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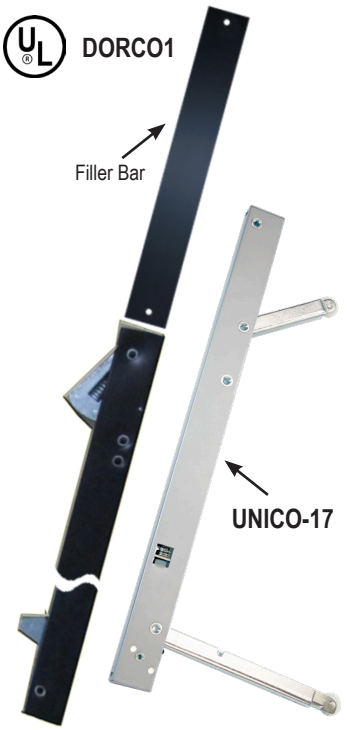
UNIVERSAL FLUSH BOLTS

UNIVERSAL AUTOMATIC FLUSH BOLT	UNIVERSAL SELF-LATCHING FLUSH BOLT	UNIVERSAL FLUSH BOLT & BOTTOM FIRE LATCH BOLT	
UNIFB820	**UNIFB780**	**UNIFB930**	**UNIFB540**
			

FEATURES & CONSTRUCTION	UNIFB820	UNIFB780	UNIFB930	UNIFB540
UL Listed for (A, B, C, D and E Label) metal fire doors, maximum 8' in height. Conforms to UL10C and UBC 7-2-1997.	✓	✓	✓	✓
UL Listed for (B, C, D and E Label) wood composite core fire doors, maximum 8' in height. Conforms to UL10C and UBC 7-2-1997.	✓	✓	✓	✓
Fits standard and ANSI preparation for wood doors.	✓	✓	✓	✓
Fits standard and ANSI preparation for metal doors.	✓	✓	✓	✓
Override feature, prevents damage to doors of frame in case the strike and bolt are not aligned.	✓	✓	✓	✓
Reversible, non-handed.	✓	✓	✓	✓
Steel body with stainless steel components, especially designed thermal lock automatically locks inactive door in case of fire.	✓	✓ (bottom only)		✓
Fully automatic, when active door is opened top and bottom bolts are automatically retracted for easy egress. When active door is closed ¾" bolt projects into the frame, securing latching of inactive leaf.	✓	✓ (bottom only)		✓
Bolts have $^{5}/_{8}$" vertical adjustment without removing door from frame for unusual conditions.	✓	✓	✓	✓
Available in Architectural Finishes. Packed 2 bolts per box with composite installation template.	✓	✓		
Available in Architectural Finishes. Packed 1 top bolt and 1 auxiliary fire latch per box with composite installation template. Used where a fire-rating application without a bottom bolt is required. The auxiliary fire latch, mounted in the door edge, releases under extremely high temperatures to keep the doors in alignment during a fire.			✓	✓

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DOOR COORDINATORS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**UL Listed, Gravity Coordinator** ▶ *Used on pairs of doors with or without an astragal* ▶ *Adjustable for ease of installation* ▶ *It features a **Nylon Roller** to enable the inactive door to easily operate the coordinating device* ▶ *Base Material: Forged Brass* ▶ *Architectural finishes available* ▶ *BHMA: 4.1.1 Type 21B*	Projection: 7”	FRGCO65	US26D, US10B, 3, US4, 5, US10, 26
		Projection: 8”	FRGCO085	
DORCO1 Filler Bar  UNICO-17	**UL Listed, Door Coordinator** ▶ *Door coordinator for fire labeled doors* ▶ *Automatic coordinating device for sequential closing of paired doors with or without astragal* ▶ *Non-handed* ▶ *For use with frame openings 60”, 72” or 84”* ▶ *Includes 18 ⅝” Filler Bar (FB1858)* ▶ *Material: All Metal construction* ▶ *Conforms to ANSI / BHMA A156.3, Type 21A*	Frame Openings: 60” and 72”	DORCO1	Black, Alum
	Filler Bar	18 ⅝” for up to 72” door	FB1858	
		32 ⅝” for up to 96” door	FB3258	
	Universal Door Coordinator ▶ *Used for pair of doors up to 8’ wide.* ▶ *Non-Handed; Adjustable arm lengths for multiple door sizes.* ▶ *Stop mounted - no mounting brackets required when using stop mounted hardware.* ▶ *Material: Steel*	Dimensions: 20 ⅛” x 1 $^{9}/_{16}$” x $^{13}/_{16}$” Adjustable Arm Length: 7 ¾” up to 9 $^{3}/_{16}$”	UNICO-17 *NEW ITEM*	Black, Alum
	**Carry Bar** ▶ *Used on pair of doors with astragal* ▶ *For situations when the inactive door can be opened first.*	Plate: 1 ¾” x 2 ¼” Fasteners: ¼” x 20 Sex Bolts	CBO-1	Black, Alum
MB4250  MB4750	**Mounting Brackets**	Jamb Depth: 4 ¼” Stop Height: ⅝” Stop Width: 2 ¼” and over	MB4250	Black
		Jamb Depth: 4 ¾” Stop Height: ⅝” Stop Width: ⅞” to 2 ¼” and over	MB4750	

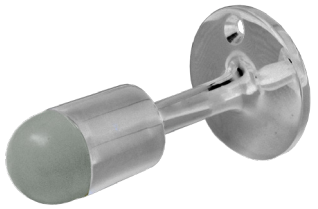
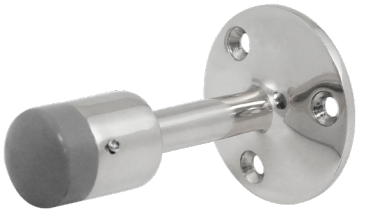
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HANDRAIL BRACKETS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Jumbo Heavy Duty Handrail Bracket** ▶ *Diecast Aluminum material* ▶ *Contemporary design* ▶ *Single screw wall mount for minimal damage to wall* ▶ *Individually poly-bagged* ▶ *Packed with mounting screws* ▶ *Easy installation* ▶ *Conforms to ANSI / BHMA A156.16 L13061* ▶ *Architectural finishes available*	Wall Mount: 2 ⅛" dia. Height: 2 ⅞" Width: 2 ⅛" Projection: 2 ⅞"	JUHB28	US3, 5, US15, 15A, US26, 10B, US1, 26D
	**Handrail Bracket** ▶ *Diecast material* ▶ *Individually poly-bagged with screws* ▶ *Conforms to ANSI / BHMA A156.16 L33061* ▶ *Architectural finishes available*	Height: 2 ⅞" Width: 1 3/16" Projection: 2 ⅞"	HB96	US3, 5, US15, 15A, US26, 10B, US26D
	**Heavy Duty Cast Aluminum Handrail Bracket** ▶ *Diecast material* ▶ *Individually poly-bagged with screws* ▶ *Conforms to ANSI / BHMA A156.16 L33061* ▶ *Architectural finishes available*	Height: 3 ¼" Width: 1 7/16" Projection: 3 ¼"	HDHB40	US3, 5, US15, 15A, US26, 26D, US10B, US1
	**Heavy Duty Handrail Bracket** ▶ *Diecast material* ▶ *Contemporary design* ▶ *Individually poly-bagged with screws* ▶ *Easy installation* ▶ *Conforms to ANSI / BHMA A156.16 L13061* ▶ *Architectural finishes available*	Height: 2 ¾" Width: 1 ⅜" Projection: 3 ¼"	DMHB83	US3, 10B, US15, 15A, US26D, 26
	**ADA-APPROVED Heavy Duty Cast Handrail Bracket** ▶ *Conforms and Meets ADA Regulations* ▶ *Conforms to ANSI / BHMA A156.16 L13061* ▶ *Diecast material* ▶ *Contemporary design* ▶ *Individually poly-bagged with screws* ▶ *Easy installation*	Height: 3 ½" Width: 1 5/16" Projection: 4"	ADAHB-4	US3, 5, US10B, 15, US15A, 26, US26D

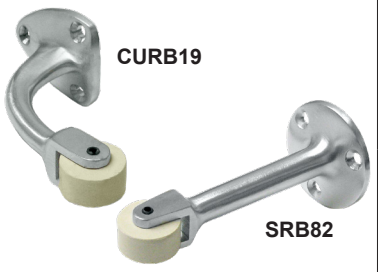
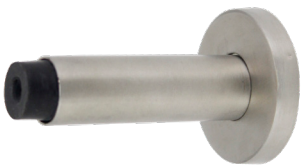
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WALL DOOR STOPS / BUMPERS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Solid Brass or Stainless Steel (US32D) Concave Wall Stop** ► *Manufactured using Stainless Steel or Solid Brass* ► *Conforms to ANSI / BHMA A156.16 L22251 for Brass and L52251 for Stainless Steel* ► *Architectural finishes available*	Base Diameter: 2 ½" Base Thickness: ⅜" Overall Proj.: 1 3/16"	WB26	US32D, 3, 4, US5, 15A, US26, 10, US10B, 19
	**Solid Brass or Stainless Steel (US32D) Convex Wall Stop** ► *Manufactured using Stainless Steel or Solid Brass* ► *Conforms to ANSI / BHMA A156.16 L22201 for Brass and L52101 for Stainless Steel* ► *Architectural finishes available*	Base Diameter: 2 ½" Base Thickness: ⅜" Overall Proj.: 1 3/16"	CONWB42	US32D, 3, US4, 26, 10, US10B
	**Solid Brass Convex Wall Stop** ► *Constructed of Solid Brass* ► *Tamper-proof mounting* ► *Included with grey convex rubber bumper that absorbs impact* ► *Comparable to IVES #WS404CVX* ► *Architectural finishes available*	Base Diameter: 1" Overall Proj.: ½"	SWB	US3, 4, 15, US15A, 26, US26D, 10B, US19
	**Commercial Grade Wall Door Stop** ► *For high traffic conditions* ► *Solid Cast Brass or Bronze heavy duty construction* ► *Rubber tip does not scar nor mark surface of door* ► *Conforms to ANSI: A156.16, BHMA: L12021, FED SPEC:1320E* ► *Architectural finishes available*	Base Diameter: 2" Overall Proj: 3 ⅝"	CWS18	US3, 26D, US10B
	**Commercial Grade Wall Door Stop** ► *For high traffic conditions* ► *Solid Cast BrassConforms to ANSI: A156.16, BHMA: L12021, FED SPEC:1320E* ► *Architectural finishes available* ► *With 3 mounting holes*	Base Diameter: 2 ⅛" Overall Proj: 3 ⅝" Fastener: #10 x 1" OPHWS w/ plastic anchor	4CWS-21	US26D, US10B

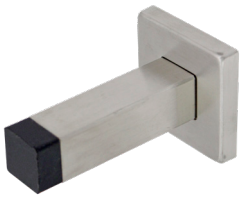
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WALL DOOR STOPS / BUMPERS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Solid Brass Roller Stop** ▶ *Constructed in heavy duty Cast Brass* ▶ *CURB19 is used where two doors open against each other to prevent damage to the door or hardware* ▶ *CURB19 conforms to ANSI / BHMA A156.16, L12212*	Base: 1 ¾" x 2 ⅛" Overall Proj: 2 ¾"	CURB19	US3, 4, US10B, US26D
		Base Dia: 2" Overall Height: 4 ¼"	SRB82	
	**Solid Brass Rigid Door Stop with Molded Screw** ▶ *Easy installation* ▶ *Packed with both white and black rubber tip* ▶ *Available in architectural finishes*	Mounting Screw: 1" Projection: 3"	SBRS3	US3, 5, 26, US26D, 15, US15A, 10B, US1
		Mounting Screw: 1" Projection: 4"	SBRS4	
	**Flexible Door Stop with Fixed Screw** ▶ *Diecast base* ▶ *One Piece Style* ▶ *Packed with white rubber tip* ▶ *Available in architectural finishes*	Mounting Screw: ¾" Projection: 3"	FS89	US3, 5, 15, US15A, 26, US10B
	**Cast Rigid Door Stop with Molded Screw** ▶ *Easy installation* ▶ *Diecast material* ▶ *Available in architectural finishes*	Mounting Screw: ⅝" Projection: 3"	RS92	US3, 5, 26, US26D, 15, US15A, US10B
	**Heavy Duty Flexible Snap On Door Stop 3 Pieces** ▶ *Steel Base* ▶ *White Rubber Tip* ▶ *Available in architectural finishes* ▶ *Comparable to IVES #060*	Mounting Screw: 1 ½" Projection: 3"	SOFS3	US3, 5, 26, US10B, US15A, 15
	**Heavy Duty Flexible Door Stop with Screw and Metal Base** ▶ *Easy installation* ▶ *Available in architectural finishes*	Mounting Screw: ¾" Projection: 3 ⅛"	HDFS3	US3, 5, 26, US15, 15A, US10B, US1
		Mounting Screw: ¾" Projection: 3 ¾"	JFS13	
	**4" Diecast Jumbo Rigid Stop with Molded Screw** ▶ *Diecast material* ▶ *Conforms to ANSI / BHMA A156.16*	Mounting Screw: ¾" Projection: 4"	JRS34	US3, 5, 26, US15, 15A, US10B
	**Wall Stop with Plate, Round** ▶ *Stainless Steel wall mount* ▶ *Easy installation* ▶ *It can also be used as coat hook* ▶ *Durable rubber tip* ▶ *Residential and light commercial use*	Wood Screw w/ plastic plug: #4 x 1" Projection: 3 ⅛"	WSPR-02	US32D, US32

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WALL DOOR STOPS / BUMPERS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Wall Stop No Plate** ▶ *Stainless Steel* ▶ *Wall mount* ▶ *Easy installation* ▶ *Durable rubber tip* ▶ *Residential and light commercial use*	Wood Screw w/ plastic plug: #10 x 1 ½” Projection: 2 ⅞”	WSNP-04	US32D, US32
	**Wall Stop with Plate, Square** ▶ *Stainless Steel* ▶ *Wall mount* ▶ *Easy installation* ▶ *It can also be used as coat hook* ▶ *Durable rubber tip* ▶ *Residential and light commercial use*	Wood Screw w/ plastic plug: #6 x 1” Projection: 3 ⅛”	WSPS-01	US32D, US32
	**Wall Bumper Concave** ▶ *Stainless Steel* ▶ *Wall mount* ▶ *Easy installation* ▶ *Durable rubber tip* ▶ *Residential and light commercial use*	Wood Screw w/ plastic plug: #8 x 1” Projection: 15/16” Diameter: 1 ½”	WBC-06	US32D, US32

FLOOR DOOR STOPS

	**Floor Stops** ▶ *Commercial grade wall floor stop for high traffic conditions. Solid Cast Brass or Bronze heavy duty construction* ▶ *Architectural finishes available* ▶ *Conforms to ANSI: A156.16, BHMA:L12131, FED SPEC:1328E*	Base Diameter: 2” Overall Height: 3”	CFS20	US3, 26D, US10B
	**Floor Stops** ▶ *Commercial grade wall floor stop for high traffic conditions. Solid Cast Brass.* ▶ *Architectural finishes available* ▶ *Conforms to ANSI: A156.16, BHMA:L12131, FED SPEC:1328E* ▶ *With 3 mounting holes*	Base Diameter: 2 ¼” Overall Height: 3 ⅛” Fastener: #10 x 1” OPHWS w/ plastic anchor	3CFS-85	US26D, US10B
 LSDC-315 SDC-115	**Security Door Stops** ▶ *Designed for high traffic, abusive and security applications* ▶ *Flame resistant, resilient material molded around a heavy duty stud*	Stud Dimensions: ⅝” x 2 ½” Bumpers: 2” dia. x 3 ½” h	LSDC-315	Black
		Stud Dimensions: ⅝” x 2 ½” Bumpers: 2” dia. x 1 ½” h	SDC-115	

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FLOOR DOOR STOPS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
 ZNLS-21 NEW ITEM	**Zinc Floor Dome Stops** ► *For doors with threshold or undercut doors* ► *Heavy Duty Cast Dome Stops constructed of Zinc* ► *ZNLS-21 conforms to ANSI / BHMA A156.16, L02141 Low profile* ► *For doors without thresholds*	Base Height: ⅛" Overall Height: 1" Base Diameter: 1 ¾"	ZNLS-21	US26D, US10B
 ZNHS-37 NEW ITEM	► *ZNHS-37 conforms to ANSI / BHMA A156.16, L02161 High Profile* ► *For doors with thresholds* ► *Architectural finishes available*	Base Height: ⅜" Overall Height: 1 ⅜" Base Diameter: 1 ¾"	ZNHS-37	
 ZNUS-82 NEW ITEM	**Zinc Heavy Duty Dome Stop** ► *Heavy Duty Cast Zinc Dome Stop designed for both low and high profiles.* ► *Meets ANSI / BHMA A156.16, L02141 when used as low profile for doors without thresholds*	Base Diameter: 1 ¾" Base: ¼" Height: 1 ⅝" Fastener: #14 x 1 ½" wood screw w/ plastic shield and ¼" - 20 x ¾" machine screw with lead anchor	ZNUS-82	US26D, US10B
 DSLP4	**Solid Brass Floor Dome Stops** ► *Heavy Duty Cast Dome Stops constructed of Solid Brass* ► *DSLP4 conforms to ANSI / BHMA A156.16, L02141 Low profile* ► *For doors without thresholds*	Base Height: ⅛" Overall Height: 1" Base Diameter: 1 ¾""	DSLP4	US3, 4, 5, US10, 10B, US15, 15A, US26, 26D, US32D
 DSHP18	► *For doors with threshold or undercut doors* ► *DSHP18 conforms to ANSI / BHMA A156.16, L02161 High Profile* ► *For doors with thresholds* ► *Architectural finishes available*	Base Height: ⅜" Overall Height: 1 ⅜" Base Diameter: 1 ¾"	DSHP8	
	**Solid Brass Heavy Duty Dome Stop** ► *Heavy Duty Cast Brass dome stop designed for both low and high profiles.* ► *Meets ANSI / BHMA A156.16, L02141 when used as DSLP4*	Base Diameter: 1 ¾" Base: ¼" Height: 1 ⅝" Fastener: #14 x 1 ½" wood screw w/ plastic shield and ¼" - 20 x ¾" machine screw with lead anchor	UNDS14	US3, 4, 5, US10,10B, US15, 26, US26D, US1

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FLOOR DOOR STOPS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
 RIS375 RIS625	**Risers** ▶ *Extruded Aluminum, mill finish* ▶ *For conversion of DSLP4, ZNLS-21 or DSHP18, ZNHS-37 Dome Stop for carpet installation* ▶ *Available in ⅜" and ⅝" height*	Length: 1 ¾" Width: 1 ⅛" Height: ⅜"	RIS375	US26D
		Length: 1 ¾" Width: 1 ⅛" Height: ⅝"	RIS625	
	**Risers** ▶ *Heavy Duty Diecast construction* ▶ *For conversion of DSLP4, ZNLS-21 or DSHP18, ZNHS-37 Dome Stop for carpet installation or adapting to threshold use* ▶ *Conforms to ANSI / BHMA 156.1, L02161 when used with DSLP4, ZNLS-21* ▶ *Architectural finishes available*	Base Diameter: 1 ¾" Height: 5/16"	NEWRIS3750	US3, 4, 5, US10, 10B, US15, 15A, US26, 26D
	**Goose Neck Floor Stop** ▶ *Heavy Duty Cast Brass floor stop* ▶ *Smooth and aerodynamic design provides minimum obstruction to cleaning efforts* ▶ *Conforms to ANSI / BHMA A156.16, L12131 for Brass* ▶ *Architectural finishes available*	Base Depth: 1 ¾" Overall Height: 2 ⅛" Overall Length: 2 ¼"	GS118	US3, 4, 5 US26, 26D, US10,10B, US15, 15A, US1
	**Goose Neck Floor Stop** ▶ *Heavy Duty Cast Brass floor stop* ▶ *Smooth and aerodynamic design provides minimum obstruction to cleaning efforts* ▶ *Conforms to ANSI / BHMA A156.16, L12131 for Brass* ▶ *Architectural finishes available*	Base Depth: 1 ⅜" Overall Height: 2 ¾" Overall Length: 2 ½"	GS119	US3, 4, 5, US26, 26D, US10,10B, US15, 15A US1
	**Small Goose Neck FLOOR STOPS** ▶ *For light to medium duty doors* ▶ *Easy installation* ▶ *Durable vinyl rubber stops that comes in black or grey* ▶ *Solid Brass material* ▶ *Architectural finishes available*	Height: 1 ¼"; Base: 1 ⅛"; Projection: 1 ¼"	SMGNS-1	US3, US5, US10B, 15, US15A, 26, US26D

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FLOOR DOOR STOPS

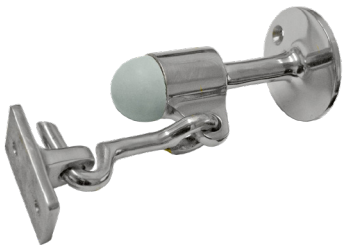
ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Cylindrical Floor Mount Door Stop** ▶ *Stainless Steel* ▶ *Floor mount* ▶ *Easy installation* ▶ *Durable rubber tip* ▶ *Residential and light commercial use*	Wood Screw w/ plastic plug: #4 x 1 ½" Projection: 1 9/16"	EUS-03	US32D, US32, US1
	**Square Floor Mount Door Stop** ▶ *Stainless Steel* ▶ *Floor mount* ▶ *Easy installation* ▶ *Durable rubber tip* ▶ *Residential and light commercial use*	Wood Screw w/ plastic plug: #4 x 1 ½" Projection: 1 9/16"	EUS-05	US32D, US32, US1
	**Floor Mount or Wall Mount Door Stop** ▶ *Stainless Steel* ▶ *Floor mount or wall mount* ▶ *Easy installation* ▶ *Durable rubber tip* ▶ *Residential and light commercial use*	Wood Screw w/ plastic plug: #8 x 1 ¼" Projection: 2"	EUS-07	US32D, US32
	**Door Stop Flat Top** ▶ *Stainless Steel door stop* ▶ *Floor Mount* ▶ *Easy installation* ▶ *Durable rubber tip* ▶ *Residential and light commercial use*	Wood Screw w/ plastic plug: #10 x 1 ¼" Projection: 13/16"	DSFT-5	US32D, US32

DOOR HOLDER / STOPS

	**Solid Brass Kick Down Door Holder** ▶ *Black / Grey Vinyl rubber stop with concentric groove design for maximum non-slide grip (#RUBSBDH)* ▶ *Conforms to ANSI / BHMA A156.16, L11383* ▶ *Available in architectural finishes*	Arm: 5" Base: 1 ¼" x 2"	SBDH41300	US26, 3, 4, US26D,10, US10B
	**Vinyl Rubber Stop for SBDH41300 and SBDH5** ▶ *Vinyl rubber stop with concentric groove design for maximum non-slide grip* ▶ *For use as replacement tip for SBDH41300 and SBDH5*	Base Dia: 1 ⅛"	RUBSBDH	Grey

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DOOR HOLDER / STOPS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Zinc Diecast Kick Down Door Holder** ▶ *Vinyl rubber stop with concentric groove design for maximum non-slide grip (#RUBDH25)* ▶ *Architectural finishes available*	Arm: 4” Base: ⅞” x 1 ¾”	DH25	US3, 26, US26D, Duro
	**Vinyl Rubber Stop for DH25** ▶ *Vinyl rubber stop with concentric groove design for maximum non-slide grip* ▶ *For use as replacement tip for DH25*	Base Dia: 1 ⅛”	RUBDH25	Grey
IRODH4 IRODH5 	**Cast Iron Kick Down Door Holder** ▶ *Black / Grey Vinyl rubber stop with concentric groove design for maximum non-slide grip* ▶ *Conforms to ANSI / BHMA A156.16, L11383*	Arm: 4” Arm: 5”	IRODH-4 IRODH-5	Alum, Duro
	**Solid Brass Kick Down Door Holder** ▶ *Vinyl rubber stop with concentric groove design for maximum non-slide grip (#RUBSBDH)* ▶ *Conforms to ANSI / BHMA A156.16, L11382* ▶ *Comparable to IVES #FS455* ▶ *Architectural finishes available*	Arm: 5” Base: ⅞” x 1 ¾”	SBDH5	US3, 26D, US10, 10B, US26
	**Heavy Duty Commercial Grade Wall Door Stop** ▶ *For high traffic conditions* ▶ *Solid Cast Brass or Bronze heavy duty construction* ▶ *Unit functions as stop but serves as a Hold-Open device when hook is manually engaged in strike* ▶ *Conforms to ANSI / BHMA A156.16, BHMA:L11351 for Brass, FED SPEC:1321E* ▶ *Architectural finishes available*	Base Dia.: 2 ¼” Projection: 3 ⅝” Strike Height: 1 ½” Strike Width: 1 3/16” Strike Projection: 1” Hook: 2 ¾” Eye: 1 ⅜” x 1 ⅛”	HDWDS99	US3, 26D, US10B
	**Floor Door Stop & Manual Holder** ▶ *Solid Cast Brass or Bronze heavy duty construction* ▶ *Unit functions as stop but serves as a Hold-Open device when hook is manually engaged in strike* ▶ *Conforms to ANSI / BHMA A156.16, BHMA:L11371, FED SPEC:1329E* ▶ *Architectural finishes available*	Base Dia.: 2” Height from floor to stop centerline: 2 ⅝” Stop Dia: 1” Hook: 2 ⅝” Eye: 1” x 1 ½” Overall Height: 3 ⅝”	HDFDSH66	US3, 26, US26D, US10B,

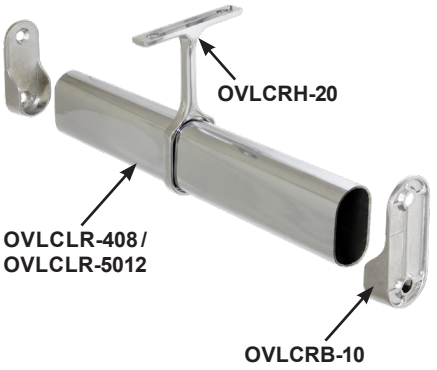
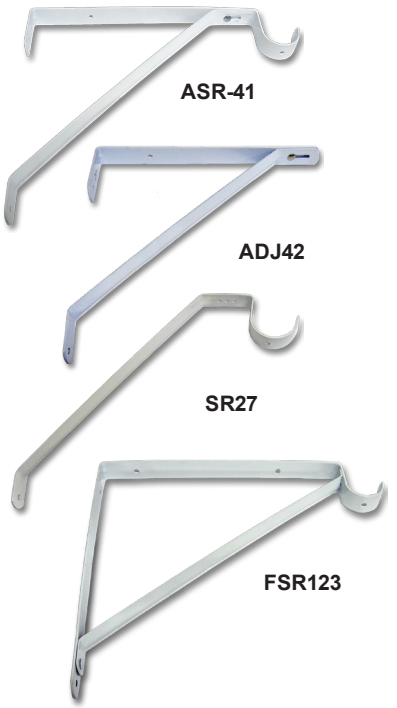
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HINGE PIN DOOR STOPS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Jumbo Heavy Duty Hinge Pin Door Stop with Removable Nylon Bushing** ▶ *Adjustable angle setting* ▶ *For commercial and residential grade hinges* ▶ *Comparable to IVES #69, 69F*	Hinge Pin Dia.: ¼" or 5/16" FOR HINGE SIZES: 3 ½" x 3 ½", 4" x 4", 4 ½" x 4 ½"	IVHP23 (Commercial and Residential use)	US3, 5, 10B, US15, 15A, US26, 26D, US1
	**Jumbo Hinge Pin Door Stop with Removable Nylon Bushing** ▶ *Easy installation* ▶ *For use with residential door hinges* ▶ *Architectural finishes available*	Hinge Pin Dia.: ¼" or 5/16" FOR HINGE SIZES: 3 ½" x 3 ½", 4" x 4", 4 ½" x 4 ½"	JHP11 (Recommended for Residential use)	US3, 5, US10B, 15, US15A, 26 US1
	**Deluxe Hinge Pin Door Stop with Removable Nylon Bushing** ▶ *Easy installation* ▶ *For use with residential door hinges* ▶ *Architectural finishes available*	Hinge Pin Dia.: ¼" FOR HINGE SIZES: 3 ½" x 3 ½", 4" x 4"	NHP78 (Recommended for Residential use)	US3, 5, 10B, US15, 15A, US26, 26D
	**Hinge Pin Stop with Removable Nylon Bushing** ▶ *Adjustable angle setting* ▶ *Comparable to IVES #69, 69F* ▶ *Architectural finishes available*	Hinge Pin Dia.: ¼" or 5/16" FOR HINGE SIZES: 3 ½" x 3 ½", 4" x 4"	DSLD81 (Recommended for Residential use)	US3, 5, 10B, US15, 15A, US26, 26D, US1
		Hinge Pin Dia.: ¼" or 5/16" FOR HINGE SIZES: 3 ½" x 3 ½", 4" x 4, 4 ½" x 4 ½"	DSHD105 (Recommended for Commercial use)	US3, 5, 10B, US15, 15A, US26, 26D
	**Residential Hinge Pin Door Stop with Removable Nylon Bushing** ▶ *Easy installation* ▶ *For use on residential hinges* ▶ *Architectural finishes available*	Hinge Pin Dia.: ¼" FOR HINGE SIZES: 3 ½" x 3 ½", 4" x 4"	HP95 (Recommended for Residential use)	US3, 5, US10B, 15, US15A, 26 US1

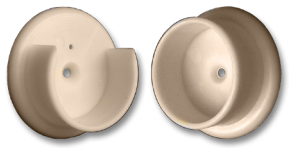
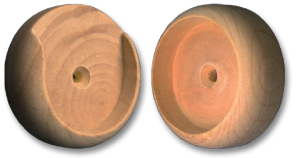
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CLOSET HARDWARE

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Oval Closet Rod** ▶ *Steel material* ▶ *Available in 2 lengths* ▶ *Individually poly-bagged*	8' Closet Rod Dimensions: ⅝" x 1 3/16"	OVLCLR-408	US26
		12' Closet Rod Dimensions: ⅝" x 1 3/16"	OVLCLR-5012	US26
	Closet Rod Bracket ▶ *Zinc Alloy material* ▶ *Packed 2 pieces in nylon bag with screws*	Dim.: 1 ¼" CTC Projection: ½" Fasteners: #6 x 1" Wood Screws	OVLCRB-10	US26
	Closet Rod Holder ▶ *Zinc Alloy material* ▶ *Individually packed in nylon bag with screws*	Dim.: 1 ¼" CTC Projection: 3" Fasteners: #6 x 1" Wood Screws	OVLCRH-20	US26
	**Adjustable Shelf and Oval Rod Support** ▶ *Sturdy Steel material* ▶ *Individually poly-bagged* ▶ *Screws packed individually with bracket* ▶ *Can be used with* ***OVLCLR-408 / OVLCLR-5012***	Support shelf up to 14" wide Oval Rod: ⅝" x 1 3/16"	OVSR-12	US26
	**Adjustable Closet Rod** ▶ *Sturdy Steel material* ▶ *Individually poly-bagged with installation screws* ▶ *Gauge: 0.050"* ▶ *Adjustable rods in various lengths*	18" to 30"	ACR1830	Bright Zinc
		30" to 48"	ACR3048	
		48" to 72"	ACR4872	
		72" to 96"	ACR7296	
		72" to 120"	ACR72120	
		96" to 150"	ACR96150	
	**Adjustable Shelf and Rod Support** ▶ *Sturdy Steel material* ▶ *Individually poly-bagged* ▶ *Screws packed individually with bracket*	Support shelf up to 14" wide Rod up to 1 ½" dia.	ASR-41	White, US26
	Adjustable Shelf Support ▶ *Sturdy Steel material* ▶ *Individually poly-bagged* ▶ *Screws packed individually with bracket*	Support shelf up to 14" wide	ADJ42	White
	Single Shelf and Rod Support ▶ *Sturdy Steel material* ▶ *Individually poly-bagged* ▶ *Screws packed individually with bracket*	Support shelf up to 14" wide Rod up to 1 ½" dia.	SR27	White
	Heavy Duty Shelf and Rod Support ▶ *Easy installation* ▶ *Individually poly-bagged* ▶ *Architectural finishes available*	Support shelf up to 14" wide Rod up to 1 ½" dia.	FSR123	White, US26

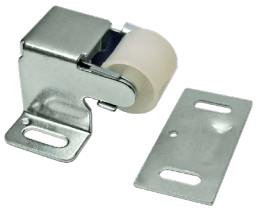
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CLOSET HARDWARE

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
 NEW ITEM	**Chrome Plated Closet Rod** ▶ *Sturdy Steel material* ▶ *Variouse rods available in different lengths* ▶ *0.050" thick (CLR-18 / CLR-112)* ▶ *0.060" thick (CLR-200 / CLR-500)*	8' Length; 1 1/16" Dia.	CLR-18	US26
		12' Length; 1 1/16" Dia.	CLR-112	
		8' Length; 1 5/16" Dia.	CLR-200	
		12' Length; 1 5/16" Dia.	CLR-500	
 NEW ITEM	**Chrome Plated Closet Pole Socket** ▶ *Zinc Alloy material* ▶ *Paired Set* ▶ *Can be used with:* ***CLR-18 / CLR-112*** ▶ *Packed with #8 x ¾" screws*	1 1/16" Diameter Pole	CLR-30	US26
 NEW ITEM	**Heavy Duty Die Cast Closet Pole Socket** ▶ *Zinc Alloy material* ▶ *Paired Set* ▶ *Can be used with:* ***CLR-200 / CLR-500*** ▶ *Packed with #10 x ¾" screws*	1 5/16" Diameter Pole	PSHD-10	US26
	**Closet Pole Socket** ▶ *Nylon material* ▶ *Paired Set*	1 ⅜" Diameter Pole	PS99	White
	**Steel Closet Pole Socket** ▶ *Sturdy Steel material* ▶ *Paired Set*	1 ⅜" Diameter Pole	MPS3	US3, 26, US15, 10B
	**Wood Closet Pole Socket** ▶ *Natural Wood material* ▶ *Paired Set*	1 ⅜" Diameter	WDPS 82	Wood Grain

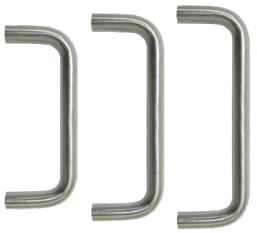
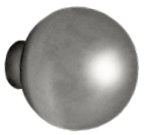
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CLOSET HARDWARE

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Jumbo Roller Catch** ▶ *Steel Construction* ▶ *Conforms to ANSI / BHMA A156.9 B83112*	Size 2” Strike: 1 ¼” x ⅞” Square Corner	RC88	US3, US10B, Zinc
	**Solid Brass Adjustable Ball Catches** ▶ *Manufactured from Wrought Brass* ▶ *Adjustable threaded barrel for accommodating various door clearances* ▶ *Conforms to ANSI / BHMA A156.9 B23013* ▶ *Architectural finishes available*	Face Plate: 2 ⅛” x 1” Round Corner Bore: ¾” x 1 ¼” Square Lip Strike: 1 ⅜” x 2 ⅛” Lip to Center: ⅞”	SBBC58 (Brass)	US3, 5, 10B US15, 15A, US26, 26D
 BC97 STRKBC97	**Adjustable Ball Catch** ▶ *Manufactured from Wrought Brass* ▶ *Adjustable threaded barrel for accommodating various door clearances* ▶ *Conforms to ANSI / BHMA A156.9 B23013* ▶ *Architectural finishes available*	Face Plate: 2 ¼” x 1” Square Corner Bore: ⅞” x 1 ¼” Round Corner Strike: 1 ⅜” x 2 ¼” Lip to Center: ⅞”	BC97 (Diecast)	US3, 5, 10B US15, 15A, US26, 26D
		Full Lip Strike Plate Round Corner for BC97 and DIB1 Size: 1 ⅜” x 2 ¼”	STRKBC97	
	**Adjustable Drive-In Ball Catches** ▶ *Generally used on closet doors where latch is not used or needed* ▶ *Diecast material* ▶ *Jamb-mounted lip strike* ▶ *Conforms to ANSI / BHMA A156.9 B23013* ▶ *Architectural finishes available*	$^{15}/_{16}$” Bore Strike Size: 1 ⅜” x 2 ¼”, Round Corner	DIB1	US3, 5, 26, US26D, 15, US15A, 10B, US1
			BLKDIB777 (Bulk Packed)	US3, 5, 26, US26D, 15, US15A, 10B
	**Adjustable Roller Catch** ▶ *Soft latching action. Speed nylon roller for maximum performance* ▶ *Adjustable tension 4 – 17 lbs of holding power. Installs easily on thin doors. Includes Brass full lip strike* ▶ *Conforms to ANSI / BHMA A156.16 L27081 for Brass and L87081 for Steel*	Face Plate: 2 ¼” x ⅞” Bore: $^{13}/_{16}$ x 1 ¾” Strike: 2 ¼” x 1 ¾” Lip to Center: $^{13}/_{16}$”	ARCT3350	US3, 26D, US15, 10B, US19, 26

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CLOSET HARDWARE

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Bullet Catch** ▶ *Ideal for cabinets and small door installations* ▶ *Made from Wrought Brass* ▶ *Architectural finishes available*	Hole (door): ½" dia. x 1 ⅛" Strikes (Square): ⅝" x 1 ¼" Strikes (Round): 1 ⅜" x 2 ¼"	BULCAT11	US3, 5, 26, US15, 10B
	T-Strike for BULCAT11 ▶ *Natural Wood material* ▶ *Paired Set*	T-Strikes (optional): ⅞" x 2 ¼"	TCAT108	US3, 5, 26, US15, 10B
	**Solid Brass Drawer Pull** ▶ *Includes Screws for ¾" – 1 ⅜" thick drawers or doors* ▶ *Conforms to ANSI / BHMA A156.9 B22011* ▶ *Architectural finishes available*	Dia. of Rod: 3", 5/16"	WP300	US3, 26, US26D, US10B
		Dia. of Rod: 3 ½", 5/16"	WP350	
		Dia. of Rod: 4", 5/16"	WP400	
	**Heavy Duty Magnetic Catch** ▶ *Dual triple pole. Self-aligning magnets for maximum pull surface or mortise mounted steel case* ▶ *Individually packed with sheet metal screws, 3 strikes* ▶ *Conforms to ANSI / BHMA A156.9 B4316*	Length: 3 ⅛" Thickness: ⅞" Depth: 1" Load Capacity: 14 lbs.	HDMC3270	Aluminum
	**Triple Pole Magnetic Catch** ▶ *Triple pole. Self-aligning magnets for maximum pull. Adjustable steel case* ▶ *Individually packed with sheet metal screws, 1 strike size* ▶ *Conforms to ANSI / BHMA A156.9*	Length: 2 1/16" Thickness: ⅞" Depth: 1 5/32" Load Capacity: 6 lbs.	TPMC3230	Aluminum
	**Bi-Fold Ball Knob** ▶ *Diecast material* ▶ *Packed with 1 breakaway screw to accommodate different cabinet thickness (from 1 ⅝" to 2") and one 1 ¾" screw* ▶ *Architectural finishes available*	Diameter: 1 ¼" Height: 1 ⅜"	BK14	US3, 5, 26, US26D, 15, US15A, 10B, US1
	**Back Plate for BK14 Bi-fold Ball Knob** ▶ *Diecast material* ▶ *Conforms to ANSI / BHMA A156.9 B221181* ▶ *Architectural finishes available*	Diameter: 1 ¾"	PLA2	US3, 5, 26, US26D, 15, US15A, 10B, US1

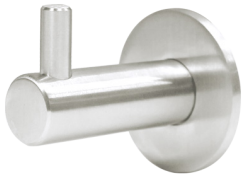
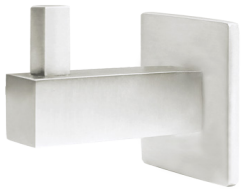
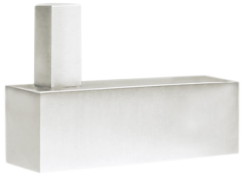
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CLOSET HARDWARE

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Bi-Fold Concave Knob** ▶ *Beveled edge* ▶ *Packed with 1" screw* ▶ *Cast material*	Diameter: 1 ⅜"	CK130	US3, 5, 26D
	**Drive In Finger Pull** ▶ *Individually poly-bagged* ▶ *Ideal for sliding doors* ▶ *Conforms to ANSI / BHMA A156.9 B22201 and A156.14 D2781*	Diameter: 2 ⅛"	DIFP218 (Without Nail)	US3, 5, 10B, US15, 15A, US26, 26D US1
 NEW ITEM	**Solid Brass Oval Flush Pull** ▶ *Ideal for sliding doors, cabinet doors, and pocket doors.* ▶ *Packed with screws* ▶ *Architectural finishes available*	Dimensions: 3 9/16" x 1 5/16" x 7/16"	FP2000	US3, 10B, US15, 26, US26D, US1
 NEW ITEM	**Solid Brass Rectangular Flush Pull with Optional Snap-In Plate** ▶ *Ideal for sliding doors, cabinet doors, and pocket doors.* ▶ *Packed with screws* ▶ *Architectural finishes available*	Dimensions: 3 ⅛" x 1 5/16" x 7/16"	FP3000	US10B, US15, 26, US26D, US1
 NEW ITEM	**Solid Brass Rectangular Flush Pull with Removable Back Plate** ▶ *Ideal for sliding doors, cabinet doors, and pocket doors.* ▶ *Packed with screws* ▶ *Architectural finishes available*	Dimensions: 3 ⅞" x 1 11/16" x 7/16"	FP4000	US10B, US15, 26, US26D, US1
 NEW ITEM	**Stainless Steel Flush Cup Pull** ▶ *Ideal for sliding doors, cabinet doors, and pocket doors.* ▶ *Meets ANSI A156.6 for J403 Pulls*	Dimensions: Face: 3 ½" x 5" Projection: ⅛" Cup Clearance: ⅞" Fasteners: (4) #6 x ⅝" OPHWS	CRP150N	US32D, US10B

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COAT HOOKS

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
 NEW ITEM	**Curved Single Coat Hook** ► *Stainless Steel* ► *Individually poly-bagged* ► *Surface Mounting* ► *Conforms to ANSI / BHMA A156.16* *L03121 L03122 L03123*	Projection: 1 ⅝” Overall Height: 2” Width: ¾” Material Thickness: ⅛”	CH13	US32D
 NEW ITEM	**Angled Single Coat Hook** ► *Stainless Steel* ► *Individually poly-bagged* ► *Surface Mounting* ► *Conforms to ANSI / BHMA A156.16* *L03121 L03122 L03123*	Projection: 1 ¼” Overall Height: 2 ½” Width: ¾” Material Thickness: ⅛”	CH01	US32D
 NEW ITEM	**Cylindrical SIngle Coat Hook with Base** ► *Stainless Steel* ► *Round Base* ► *Individually poly-bagged* ► *Concealed Mounting* ► *Conforms to ANSI / BHMA A156.16* *L03121 L03122 L03123*	Projection: 1 ⅝” Overall Height: 1 1/16” Base Width: 1 ⅜” dia. Material Thickness: 9/16” dia.	CH04	US32D
 NEW ITEM	**Cubic Single Coat Hook with Base** ► *Stainless Steel* ► *Square Base* ► *Individually poly-bagged* ► *Concealed Mounting* ► *Conforms to ANSI / BHMA A156.16* *L03121 L03122 L03123*	Projection:1 11/16” Overall Height: 1 1/16” Base Width: 1 ⅜” Material Thickness: 9/16”	CH07	US32D
 NEW ITEM	**Cubic Single Coat Hook without Base** ► *Stainless Steel* ► *Square Base* ► *Individually poly-bagged* ► *Concealed Mounting* ► *Conforms to ANSI / BHMA A156.16* *L03121 L03122 L03123*	Projection:1 9/16” Overall Height: 1 1/16” Width: 9/16” Material Thickness: 9/16”	CH10	US32D

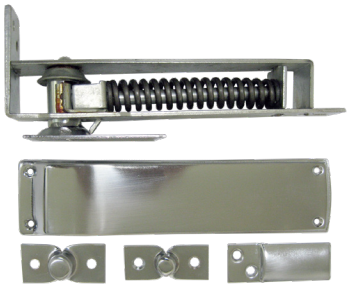
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COAT HOOKS

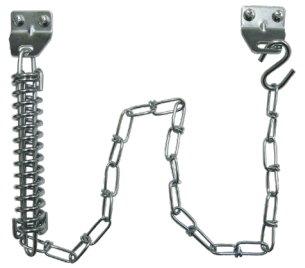
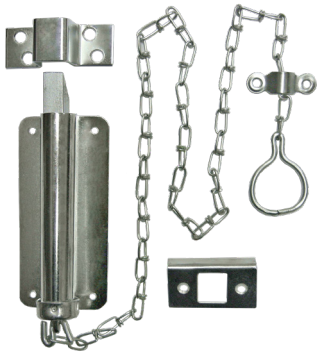
ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Coat and Hat Hook Double Hanger** ► *Diecast material* ► *Individually poly-bagged* ► *Surface Mounting* ► *Conforms to ANSI / BHMA A156.16 L03111 L03112 L03113*	Projection: 2 7/8" Base dimension: 1" (W) x 1 ½" (L)	CH28	US3, 26
NEW ITEM 	**Rounded Flat Coat and Hat Hook Double Hanger** ► *Stainless Steel* ► *Individually poly-bagged* ► *Surface Mounting* ► *Conforms to ANSI / BHMA A156.16 L03121 L03122 L03123*	Projection: 1 11/16" Overall Height: 5 3/8" Width: ¾" Material Thickness: ⅛"	CH14	US32D
NEW ITEM 	**Long Round Coat and Hat Hook Double Hanger** ► *Stainless Steel* ► *Individually poly-bagged* ► *Concealed Mounting* ► *Conforms to ANSI / BHMA A156.16 L03121 L03122 L03123*	Top Hook Projection:4 1/16" Bottom Hook Projection: 3 1/16" Overall Height: 5 11/16" Base Width: 2 ¼" dia. Material Thickness: ½" dia.	CH25	US32D
NEW ITEM 	**Short Round Coat Hook Single Hanger** ► *Stainless Steel* ► *Individually poly-bagged* ► *Concealed Mounting* ► *Conforms to ANSI / BHMA A156.16 L03121 L03122 L03123*	Projection: 3 1/16" Overall Height: 2 15/16" Base Width: 2 ¼" dia. Material Thickness: ½" dia.	CH30	US32D

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DOUBLE-ACTING FLOOR SPRING HINGE

ILLUSTRATION	ITEM	SIZE	ITEM #	FINISH
	**Double-Acting Residential Floor Spring Hinge** ▶ *Double acting, spring tension* ▶ *Steel trim* ▶ *Heavy Duty ball bearing type with 90° Hold Open* ▶ *Can hold doors up to 90 lbs.* ▶ *Door Range 1 ⅛" – 1 ¾"*	Door Range 1 ⅛" – 1 ¾" Door Prep: 8 ⅛"(L) x 1 ½"(H)	DAFH8	US3, 5, US15, US10B, US26D

CRASH CHAINS AND BOLTS

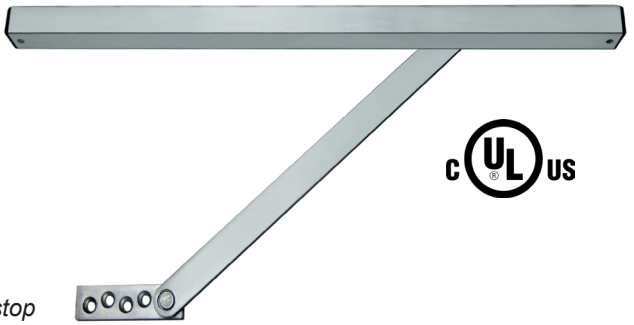
	**Single Spring Crash Chain Door Guard** ▶ *Protects doors, hinges and glass from wind damage* ▶ *Made with heavy gauge zinc brackets and steel chain $^{13}/_{16}$" diameter spring* ▶ *Individually poly-bagged with mounting screws*	Chain: 21 ¾" Spring Dia: $^{13}/_{16}$"	CCD30	Zinc
	**Single Spring Crash Chain Door Guard (with VINYL)** ▶ *Protects doors, hinges and glass from wind damage* ▶ *Made with heavy gauge zinc brackets and steel chain $^{13}/_{16}$" diameter spring* ▶ *Individually poly-bagged with mounting screws* ▶ *Weather and rip resistant vinyl cover*	Chain: 21 ¾" Spring Dia: $^{13}/_{16}$"	CDV24	Zinc
	**Super Heavy Duty Adjustable Chain Door Stop with Vinyl Cover** ▶ *Heavy Duty compression spring on both ends of chain and end brackets* ▶ *Thick gauge steel brackets* ▶ *Welded solid steel chains* ▶ *Conforms to ANSI / BHMA A156.16 L12231 (Grade 1)* ▶ *Weather and rip resistant vinyl cover* ▶ *Comparable to IVES #115*	Length: 33" Spring Dia: $^{13}/_{16}$"	HDCDV-48	US26D
	**24" Chain Bolt Hardened Steel** ▶ *Supplement to a regular door lock for added security on cabinet, double screen, garage and industrial doors* ▶ *Zinc plated* ▶ *Can be used on doors opening in by reversing the square bolt* ▶ *Equipped with a strong hard-drawn wire spring which throws the bolt automatically when chain is released* ▶ *Individually poly-bagged with strike and screws*	Full 24" Chain	CB6	Zinc Chromium

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MEDIUM DUTY SURFACE OVERHEAD DOOR HOLDER AND STOPS

Cal-Royal CR550 Series holders and stops are designed to give dependable surface-mounted overhead door control for medium to light duty applications. They come in a wide assortment of architectural finishes. The CR550 series holders and stops can be installed in almost all types of doors and frames including doors with conventional butt hinges, offset pivots, continuous hinges, swing clear hinges and other specialty hinges. They can be mounted to accommodate 85° - 110° door opening. Each door holder and stop models come in four different sizes.

CR550 SERIES



- ***Medium duty surface***
- *Limits door swing*
- *Non-Handed / Reversible*
- *Built-in cushioned stop*
- *Available stop only or stop / hold*
- *Automatic hold-open and release by push and pull on door*
- *Hold-open can be disengaged to act as stop only*
- *Heavy shock absorber spring provides compression before dead stop*
- *Screw packet included to allow for installation in wood or metal door and frame*
- *Maximum opening 110°, minimum door thickness 1 ⅜"*
- *Available in architectural finishes*
- *ANSI A156.8 UL Listed as STOP Function*

ITEM NUMBER	SIZE	DOOR OPENING	FUNCTION
CR552S	2	23 1/16" - 27"	STOP ONLY
CR553S	3	27 1/16" - 33"	
CR554S	4	33 1/16" - 39"	
CR555S	5	39 1/16" - 45"	
CR552H	2	23 1/16" - 27"	HOLD OPEN
CR553H	3	27 1/16" - 33"	
CR554H	4	33 1/16" - 39"	
CR555H	5	39 1/16" - 45"	

Cal-Royal CR550 series holders and stops are designed for medium to light-duty applications. Generally used for openings that are subject to normal traffic activity, thus extending the life of doors, frames, hinges and walls or obstructions.

Material:

Channel is made of steel or stainless steel ¾" deep, ¾" wide and 0.050" thick; arm is made of steel or stainless steel ¾" wide, 3/16" thick; standard jamb bracket is made of steel or stainless steel ¾" wide, 2 ⅞" long, 3/16" thick.

Finish:

Available in architectural finishes.

UL Listed for STOP only function.

OVERHEAD STOPS AND HOLDERS CROSS-REFERENCE CHART					
CAL-ROYAL	GLYNN JOHNSON	ABH	ROCKWOOD	RIXSON	DORMA
STOP ONLY					
CR552S	452S	4422	OH1001M	55-136	702S
CR553S	453S	4423	OH1002M	55-236	703S
CR554S	454S	4424	OH1003M	55-336	704S
CR555S	455S		OH1004M	55-436	705S
HOLDER					
CR552H	452H	4412	OH1001M	55-126	702H
CR553H	453H	4413	OH1002M	55-226	703H
CR554H	454H	4414	OH1003M	55-326	704H
CR555H	455H		OH1004M	55-426	705H

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HEAVY DUTY SURFACE OVERHEAD DOOR HOLDER AND STOPS

HD660 SERIES



Application

- *Interior or exterior doors*
- *Doors are single acting*
- *Non-handed*
- *Recommended for high traffic, heavy abuse installations*

Features

- ***Heavy duty surface***
- *Slide track design*
- *Heavy shock absorber spring provides 5-7° compression before deadstop*
- *Stop or hold-open function*
- *Complete screw packet with thru-bolts for door, wood and machine screws for frame*
- *Durable slider cam*
- *110° maximum opening*
- *1 ¾" minimum door thickness*
- *1 3/16" square channel*

Compliance

- *ANSI A156.8 UL Listed as STOP Function*

DOOR OPENING CHART				
MODEL #	**SIZE**	**FUNCTION**	**BUTT OFFSET PIVOTS**	**CENTER HUNG PIVOTS**
HD662S	2	STOP ONLY	*24" - 28"	25 ½" - 30"
HD663S	3		28 1/16" - 33"	30 1/16" - 36"
HD664S	4		33 1/16" - 38"	36 1/16" - 41"
HD665S	5		38 1/16" - 43"	41 1/16" - 46"
HD666S	6		43 1/16" - 48"	46 1/16" - 50"
HD662H	2	HOLD-OPEN	*24" - 28"	25 ½" - 30"
HD663H	3		28 1/16" - 33"	30 1/16" - 36"
HD664H	4		33 1/16" - 38"	36 1/16" - 41"
HD665H	5		38 1/16" - 43"	41 1/16" - 46"
HD666H	6		43 1/16" - 48"	46 1/16" - 50"

**Butt hung only on this size door. No swing clear hinges*
Refer to the price list for stock sizes and finish.

HEAVY DUTY SURFACE OVERHEAD STOPS AND HOLDERS CROSS-REFERENCE CHART					
CAL-ROYAL	**GLYNN JOHNSON**	**ABH**	**ROCKWOOD**	**RIXSON**	**DORMA**
STOP ONLY					
HD662S	902S	9028	OH901S	9-136	902S
HD663S	903S	9021	OH902S	9-236	903S
HD664S	904S	9024	OH903S	9-336	904S
HD665S	905S	9026	OH904S	9-436	905S
HD666S	906S	9027	OH905S	9-536	906S
HOLDER					
HD662H	902H	9018	OH901H	9-126	902H
HD663H	903H	9011	OH902H	9-226	903H
HD664H	904H	9014	OH903H	9-326	904H
HD665H	905H	9016	OH904H	9-426	905H
HD666H	906H	9017	OH905H	9-526	906H

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MEDIUM DUTY CONCEALED OVERHEAD DOOR HOLDER AND STOPS

CON770 SERIES



Application

- *Interior or exterior doors*
- *Single or double acting*
- *Non-handed*
- *Recommended for moderate traffic, medium weight doors*

Features

- ***Medium duty concealed**, Slide track design*
- *Degree of opening is fully adjustable and can be adapted to changing needs*
- *Heavy shock absorber spring provides 5-7° compression before deadstop*
- *Stop or hold-open function*
- *Complete screw packet with thru-bolts for door, wood and machine screws for frame*
- *Durable slider cam*
- *110° maximum opening*
- *1-3/4" minimum door thickness*

Compliance

- *ANSI A156.8 UL Listed as STOP Function*

DOOR OPENING CHART				
MODEL #	SIZE	FUNCTION	BUTT OFFSET PIVOTS	CENTER HUNG PIVOTS
CON772S	2	STOP ONLY	*18" - 24"	---
CON773S	3		24 1/16" - 30"	27" - 32"
CON774S	4		30 1/16" - 36"	32 1/16" - 38 ½"
CON775S	5		36 1/16" - 42"	38 9/16" - 45"
CON776S	6		42 1/16" - 48"	45 1/16" - 48"
CON772H	2	HOLD-OPEN	*18" - 24"	---
CON773H	3		24 1/16" - 30"	27" - 32"
CON774H	4		30 1/16" - 36"	32 1/16" - 38 ½"
CON775H	5		36 1/16" - 42"	38 9/16" - 45"
CON776H	6		42 1/16" - 48"	45 1/16" - 48"

**Butt hung only on this size door. No swing clear hinges*
Refer to the price list for stock sizes and finish.

MEDIUM DUTY CONCEALED OVERHEAD STOPS AND HOLDERS CROSS-REFERENCE CHART					
CAL-ROYAL	GLYNN JOHNSON	ABH	ROCKWOOD	RIXSON	DORMA
STOP ONLY					
CON772S	412S	4021	OH201M	2-136	712S
CON773S	413S	4022	OH202M	2-236	713S
CON774S	414S	4023	OH203M	2-336	714S
CON775S	415S	4024	OH204M	2-436	715S
CON776S	416S		OH205M	2-536	716S
HOLDER					
CON772H	412H	4011	OH201M	2-126	712H
CON773H	413H	4012	OH202M	2-226	713H
CON774H	414H	4013	OH203M	2-326	714H
CON775H	415H	4014	OH204M	2-426	715H
CON776H	416H		OH205M	2-526	716H

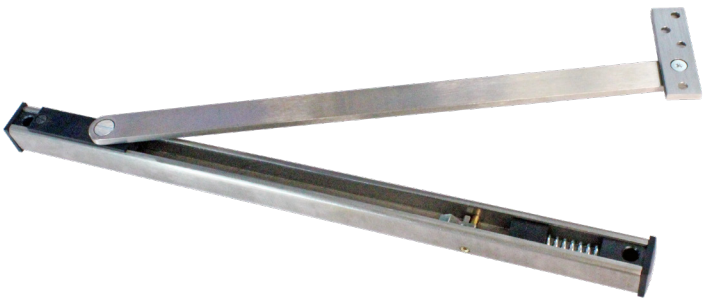
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HEAVY DUTY CONCEALED OVERHEAD DOOR HOLDER AND STOPS

CON880 SERIES

Application

- *Interior or exterior doors*
- *Single or double acting*
- *Non-handed*
- *Recommended for high traffic, heavy abuse installations*



Features

- ***Heavy duty concealed***
- *Slide track design*
- *Stop or hold open function*
- *1 ¾" minimum door thickness*
- *110° maximum opening*
- *Durable slider cam*
- *Surface on / off knob on hold open models*
- *Heavy shock absorber spring provides 5-7° compression before dead stop*
- *1 3/16" square channel*
- *Complete screw packet for installation in wood and machine screws for door and frame*
- *Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory*

Compliance

- *ANSI A156.8 UL Listed as STOP Function*

DOOR OPENING CHART				
MODEL #	**SIZE**	**FUNCTION**	**BUTT OFFSET PIVOTS**	**CENTER HUNG PIVOTS**
CON882S	2	STOP ONLY	*24" - 28"	---
CON883S	3		28 1/16" - 33"	30" - 36"
CON884S	4		33 1/16" - 38"	36 1/16" - 41"
CON885S	5		38 1/16" - 43"	41 1/16" - 46"
CON886S	6		43 1/16" - 48"	46 1/16" - 50"
CON882H	2	HOLD-OPEN	*24" - 28"	---
CON883H	3		28 1/16" - 33"	30" - 36"
CON884H	4		33 1/16" - 38"	36 1/16" - 41"
CON885H	5		38 1/16" - 43"	41 1/16" - 46"
CON886H	6		43 1/16" - 48"	46 1/16" - 50"

**Butt hung only on this size door. No swing clear hinges*
Refer to the price list for stock sizes and finish.

CONCEALED OVERHEAD STOPS AND HOLDERS CROSS-REFERENCE CHART					
CAL-ROYAL	**GLYNN JOHNSON**	**ABH**	**ROCKWOOD**	**RIXSON**	**DORMA**
STOP ONLY					
CON882S	102S	1027	OH101S	1-136	912S
CON883S	103S	1022	OH102S	1-236	913S
CON884S	104S	1023	OH103S	1-336	914S
CON885S	105S	1024	OH104S	1-436	915S
CON886S	106S	1025	OH105S	1-536	916S
HOLDER					
CON882H	102H	1017	OH101H	1-126	912H
CON883H	103H	1012	OH102H	1-226	913H
CON884H	104H	1013	OH103H	1-326	914H
CON885H	105H	1014	OH104H	1-426	915H
CON886H	106H	1015	OH105H	1-526	916H

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HANDICAP RESTROOM SIGNS (ADA) WITH BRAILLE

- *Includes Tactile Characters & Grade 2 Braille*
- *Meets Size and Placement Specifications*
- *Double Faced Tape for Easy Installation*
- *Individually Poly-bagged*
- *Packed 10pcs. per Inner Box, 100 pcs. per Master Carton (**AGH-U3: 50 pcs. per Master Carton**)*

ITEM	SIZE	ITEM #	FINISH
Men, with Braille, pictogram, text	6" x 9"	M68	Blue or Black
Men Handicap, with Braille, pictogram, text	6" x 9"	MH68	
Boys Handicap, with Braille, pictogram, text	6" x 9"	BOYH68	
Women, with Braille, pictogram, text	6" x 9"	W68	
Women Handicap, with Braille, pictogram, text	6" x 9"	WH68	
Girls Handicap, with Braille, pictogram, text	6" x 9"	GIRH68	
Unisex Restroom, with Braille, pictogram, text	6" x 9"	RS68	
Unisex Handicap Restroom, with Braille, pictogram, text	6" x 9"	RSH68	
No Smoking, with Braille, pictogram, text	6" x 9"	NS68	
Exit, with Braille, pictogram, text	6" x 9"	CAEXT69	
Exit Route, with Braille, text	6" x 6"	CAEXRT4534	
Men, with Braille, text	1 3/4" x 6"	M1346	
Women, with Braille, text	1 3/4" x 6"	W1346	
Restroom, with Braille, text	1 3/4" x 6"	RS1346	
All Gender with Men, Women, and Handicap Logo, with Braille, pictogram, text	6" x 9"	AGH-69	
All Gender with Men, Women, and Transgender Logo, with Braille, pictogram, text	6" x 9"	AGR-71	
All Gender Restroom, with Braille, text	4" x 8"	AGH-48	
All Gender Restroom, Contrasting Triangle on Circle	12" Circle	AGH-U3	



GIRH68



M68



W68



RS68



NS68



CAEXT69



AGH-69



AGR-71



BOYH68



MH68



WH68



RSH68


AGH-U3



AGH-48



CAEXRT4534



M1346
W1346



RS1346

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HANDICAP RESTROOM SIGNS (ADA) WITH BRAILLE

- *Complies to Exterior and Interior Handicap Accessible Restrooms and International Symbol of Signs*
- *Packed 10 pcs. per Inner Box, 100 pcs. per Master Carton (may vary depending on customers request*
- *Raised Letters and Symbols*
- *Brailled for the Blind*
- *Double Faced Tape for Easy Installation*
- *Individually Poly-bagged*

ITEM	SIZE	ITEM #	FINISH
Women Sign, Raised and Braille	12" Circle	WHS5	Blue Only
Girls Sign, Raised and Braille	12" Circle	GHS4	
Men Sign, Raised and Braille	10 ½" High Triangle	MHS6	
Boys Sign, Raised and Braille	10 ½" High Triangle	BHS1	
Women Sign, Raised and Braille, and Handicap Logo	12" Circle	WHS5A	Blue or Black
Men Sign, Raised and Braille, and Handicap Logo	10 ½" High Triangle	MHS6A	
Unisex, Raised and Braille	12" Circle	UHS7	
Unisex, Raised and Braille, and Handicap Logo	12" Circle	UCHS10	
Unisex, Raised and Braille	12" Circle	NEWUCHS7	
Unisex, Raised and Braille, and Handicap Logo	12" Circle	NEWUCHS10	

DECALS AND STICKERS

Blue Square Plastic Sign and Handicap Logo	8" x 8"	CHS9	Blue
Blue Insignia Handicap Logo	4" x 4"	HI11	White on Blue
This door to remain unlocked during business hours	1 ½" x 24"	WDC13	White on Black
This door to remain unlocked during business hours	1 ½" x 24"	BDC12	Black on Clear
These doors to remain unlocked during business hours	1 ½" x 24"	TDUW8	White on Black
These doors to remain unlocked during business hours	1 ½" x 24"	TDUB1	Black on Clear
This door to remain unlocked when building is occupied	1 ½" x 27 ½"	BDO-5	Black on Clear
This door to remain unlocked when building is occupied	1 ½" x 27 ½"	WDO-11	White on Black
These doors to remain unlocked when building is occupied	1 ½" x 27 ½"	TWOC-14	White on Black
These doors to remain unlocked when building is occupied	1 ½" x 27 ½"	TBOC-19	Black on Clear



MHS6



WHS5



BHS1



UHS7



NEWUCHS7


CHS9



MHS6A



WHS5A



GHS4



UCHS10



NEWUCHS10


HI11

THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS
WDC13

THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS
BDC12

THESE DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS
TDUW8

THESE DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS
TDUB1

THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED
WDO-11

THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED
BDO-5

THESE DOORS TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED
TWOC-14

THESE DOORS TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED
TBOC-19

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CALIFORNIA-APPROVED RESTROOM SIGNS with BRAILLE

- *Includes Tactile Characters & Contracted Grade 2 Braille*
- *Meets Size and Placement Specifications*
- *Double Faced Tape for Easy Installation*
- *Individually Poly-bagged*
- *Packed 10pcs. per Inner Box, 100 pcs. per Master Carton*

ITEM	SIZE	ITEM #	FINISH
Men Handicap, with Braille, pictogram, text	6" x 9"	CAMH69	Blue
Women Handicap, with Braille, pictogram, text	6" x 9"	CAWH69	
Unisex Restroom Handicap, with Braille, pictogram, text	6" x 9"	CARSH69	
Handicap Accessible, with Braille, pictogram, text	6" x 9"	CACCS69	
Exit, with Braille, text	6" x 9"	CAEXT69	Blue or Black
Men, with Braille, text	1 ¾" x 8"	CAM1348	Blue
Women, with Braille, text	1 ¾" x 8"	CAW1348	
Restroom, with Braille, text	1 ¾" x 8"	CARS1348	

Specification Sheets available for submittal purposes at www.cal-royal.com. Click on "Specification Sheets Image"



CAMH69



CAWH69



CARSH69



CAEXT69



CACCS69



CAM1348



CAW1348



CARS1348

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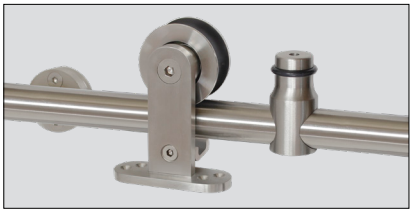
SLIDING DOOR HARDWARE

- *Adds modern look to ordinary doors and doorways*
- *Ultra-quiet rollers and ball bearing wheels*
- *Excellent solution to create beautiful living spaces*
- *304 Grade Stainless Steel*
- *Easy to assemble*
- *Includes standard bumpers on both sides*
- ***Optional Soft Action Stop or Soft Close System (Refer to pages 45 to 47)***
- *Door & door handle not included*

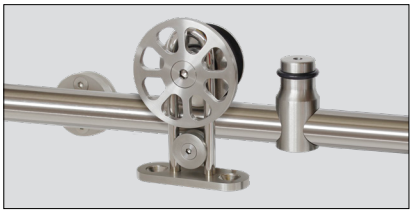
SPECIFICATIONS		
Max Weight for Wood / Glass Doors or Sliding Panel	200 lbs (90kg)	
Wood Door Thickness	1 ⅜" - 1 ¾" (35 - 45 mm)	
Glass Door Thickness	5/16" - ½" (8 - 12 mm)	
Finish	Satin Stainless Steel (US32D)	
Sliding Rod Length	6' 6"	8' 2"
Max Door Opening	36"	48"

SDH SERIES - STAINLESS STEEL SLIDING DOOR HARDWARE

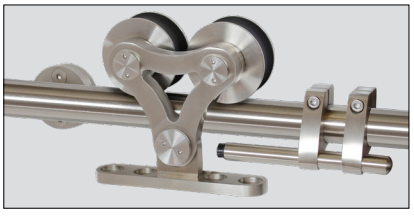
*For (6' 6" long) sliding rod length, **ADD SUFFIX 66** and for (8'2" long) sliding rod length, **ADD SUFFIX 82** after the Item #. e.g. SDH1066 or SDH1082*



SDH10 (Track w/ Regular Stop for Wood Doors)	
Mounting Type: Top	**Design:** Single Wheel



SDH11 (Track w/ Regular Stop for Wood Doors)	
Mounting Type: Top	**Design:** Spoke Wheel



SDH12 (Track w/ Regular Stop for Wood Doors)	
Mounting Type: Top	**Design:** Dual Wheel



SDH20 (Track w/ Regular Stop for Glass Doors) **SDH30** (Track w/ Regular Stop for Wood Doors)	
Mounting Type: Surface	**Design:** Strap Single Wheel



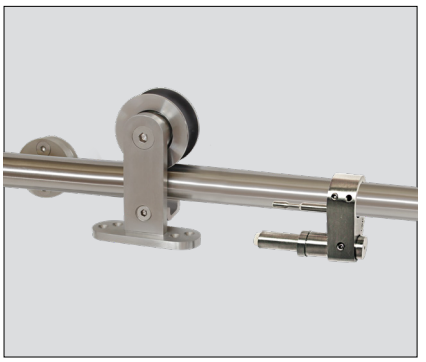
SDH21 (Track w/ Soft Stop for Glass Doors) **SDH31** (Track w/ Soft Stop for Wood Doors)	
Mounting Type: Surface	**Design:** Strap Dual Wheel

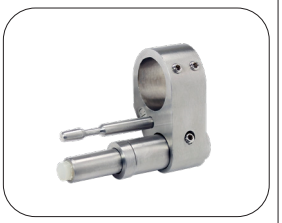
The illustration and technical description in this Specification sheet is current as of date in the version box above. Cal-Royal Products, Inc. reserves the right to and may frequently make changes and/or improvements in designs and dimensions.

SDH SERIES - STAINLESS STEEL
SLIDING DOOR HARDWARE WITH SOFT ACTION STOP

*For (6' 6" long) sliding rod length, **ADD SUFFIX 66** and for (8'2" long) sliding rod length, **ADD SUFFIX 82** after the Item #. e.g. SDH1366 or SDH1382*

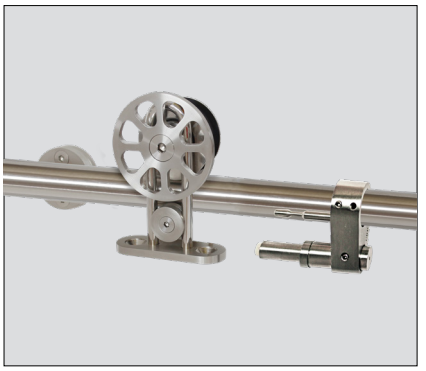
FOR WOOD DOORS

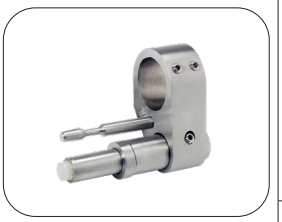




SOFT ACTION ROLLER STOP
ITEM #: DS-2200

SDH13 (Track w/ Soft Stop)	
Mounting Type: Top	**Design:** Single Wheel

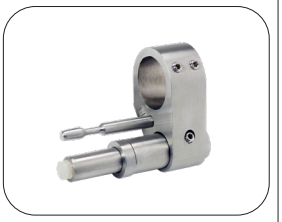




SOFT ACTION ROLLER STOP
ITEM #: DS-2200

SDH14 (Track w/ Soft Stop)	
Mounting Type: Top	**Design:** Spoke Wheel





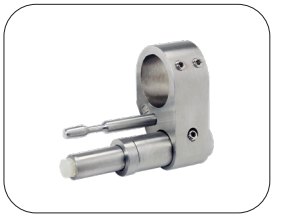
SOFT ACTION ROLLER STOP
ITEM #: DS-2300

SDH15 (Track w/ Soft Stop)	
Mounting Type: Top	**Design:** Dual Wheel

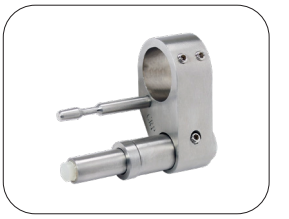
FOR WOOD AND GLASS DOORS



SOFT ACTION ROLLER STOP



ITEM #: DS-2200 for Glass

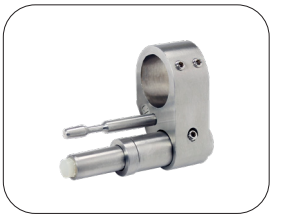


ITEM #: DS-2300 for Wood

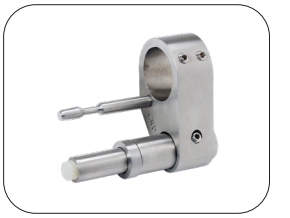
SDH23 (Track w/ Soft Stop for Glass Doors) **SDH33** (Track w/ Soft Stop for Wood Doors)	
Mounting Type: Surface	**Design:** Strap Single Wheel



SOFT ACTION ROLLER STOP



ITEM #: DS-2200 for Glass



ITEM #: DS-2300 for Wood

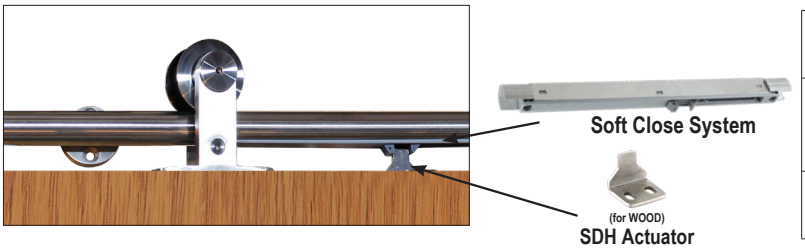
SDH24 (Track w/ Soft Stop for Glass Doors) **SDH34** (Track w/ Soft Stop for Wood Doors)	
Mounting Type: Surface	**Design:** Strap Dual Wheel

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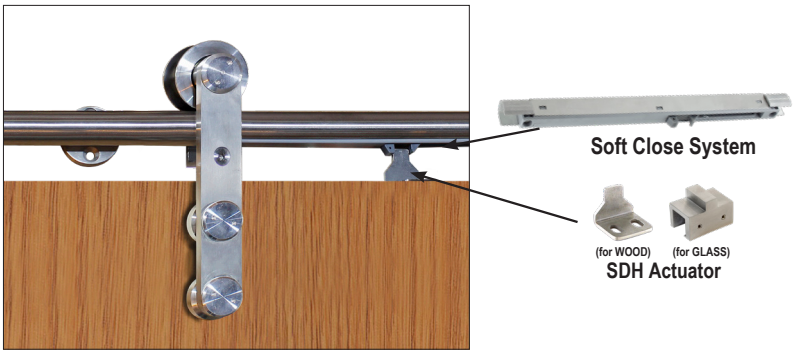
SDH SERIES - STAINLESS STEEL
SLIDING DOOR HARDWARE WITH SOFT CLOSE SYSTEM

- ***SCS40 / SCS80 (Soft Close System)*** *Pair of Soft Close System at both ends. Comes as a complete set with door track and components. Easy installation on pre-fabricated roller track without the need to mortise on door. Can also be purchased as accessory only.*
- ***AVAILABLE IN US32D FINISH. SEE NEXT PAGE FOR OTHER STOCK FINISHES.***

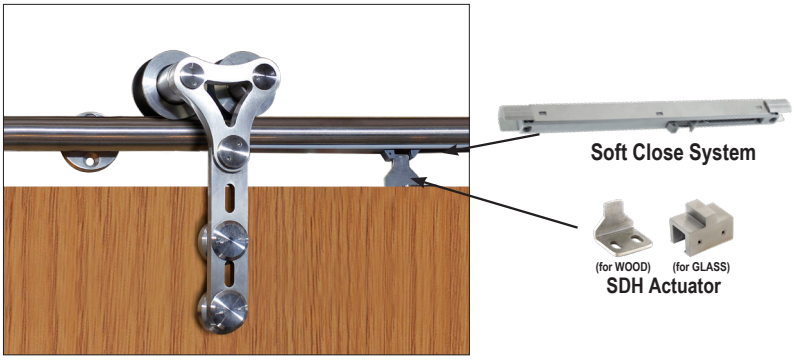
For (6' 6" long) sliding rod length, ***ADD SUFFIX 66*** *and for (8'2" long) sliding rod length,* ***ADD SUFFIX 82*** *after the Item #. e.g. SCS801666 / SCS401666 or SCS801682 / SCS401682*



ITEM	MOUNTING TYPE	DESIGN	MIN DOOR WT	MAX DOOR WT
SCS8016 (w/ SCS80) *STANDARD	Top (Wood Doors)	Single Wheel	88 lbs (40 kg)	176 lbs (80 kg)
SCS4016 (w/ SCS40)			44 lbs (20 kg)	88 lbs (40 kg)



ITEM	MOUNTING TYPE	DESIGN	MIN DOOR WT	MAX DOOR WT
SCS8025 **SCS8035**	Surface (Glass Doors) (Wood Doors)	Strap Single Wheel	88 lbs (40 kg)	176 lbs (80 kg)
With SCS80 (Standard)				
SCS4025 **SCS4035**	Surface (Glass Doors) (Wood Doors)		44 lbs (20 kg)	88 lbs (40 kg)
With SCS40				



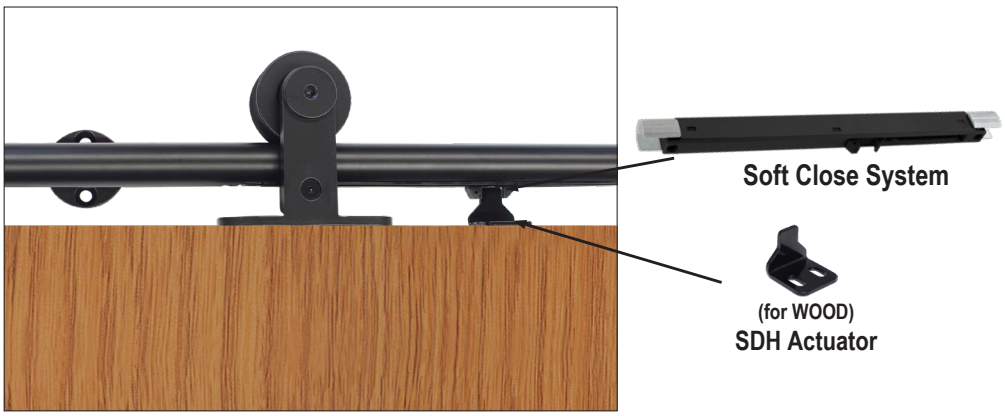
ITEM	MOUNTING TYPE	DESIGN	MIN DOOR WT	MAX DOOR WT
SCS8026 **SCS8036**	Surface (Glass Doors) (Wood Doors)	Strap Single Wheel	88 lbs (40 kg)	176 lbs (80 kg)
With SCS80 (Standard)				
SCS4026 **SCS4036**	Surface (Glass Doors) (Wood Doors)		44 lbs (20 kg)	88 lbs (40 kg)
With SCS40				

Note: *Select correct type of closer for maximum smooth closing operation. Refer to table for door weight limits.*

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SDH SERIES - SLIDING DOOR HARDWARE WITH SOFT CLOSE SYSTEM

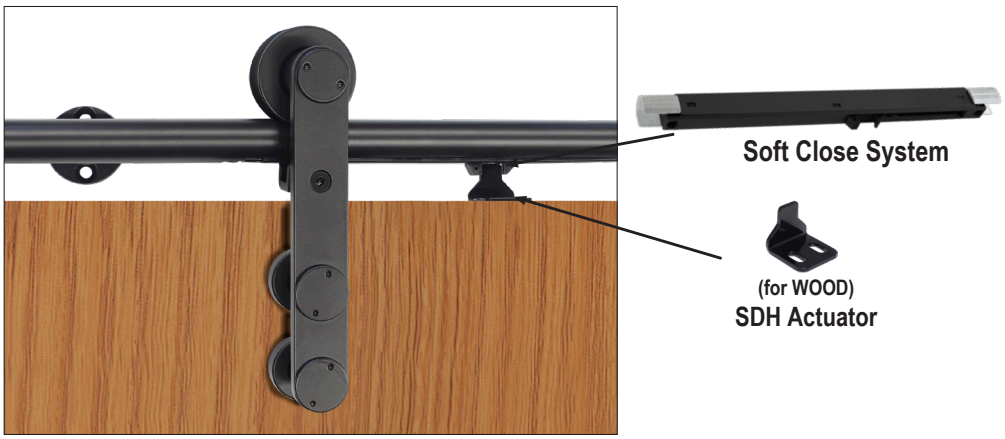
- *Adds modern look to ordinary doors and doorways*
- *Ultra-quiet rollers and ball bearing wheels*
- *Excellent solution to create beautiful living spaces*
- *Comes as a complete set with door track and components.*
- *Packed standard with **SCS80 (Soft Close System)** pair of soft close system at both ends.*
- *Easy installation on pre-fabricated roller track without the need to mortise on door.*
- ***NOW AVAILABLE IN US10B and BLACK FINISH***
- ***Carbon Steel Material***
- *Maximum door weight is 80 kg (176 lbs).*
- *DOOR NOT INCLUDED.*



SCS801666 (6' 6")
SCS801682 (8' 2")

Mounting Type:
Top (for Wood Doors)

Design:
Single Wheel



SCS803566 (6' 6")
SCS803582 (8' 2")

Mounting Type:
Surface (for Wood Doors)

Design:
Strap Single Wheel

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SLIDING DOOR HARDWARE

- *Blends seamlessly with modern, rustic, classic, or contemporary interior designs.*
- ***With optional Soft Close System (Refer to page 49)***
- *Provides a unique and clean look to any interior doorway or room divider*
- *Contains ultra-quiet rollers for smoother operation*
- *Includes standard bumpers on both sides*
- *Has a durable Powder Coated Matte Black finish*
- *Includes all mounting accessories for easy assembly*
- *DOOR NOT INCLUDED*

SPECIFICATIONS		
Max Weight for Wood Doors or Sliding Panel	220 lbs (100kg)	
Wood Door Thickness	1 ⅜" - 1 ¾" (35 - 45 mm)	
Finish	BLACK	
Sliding Rod Length	6' 6"	8' 0"
Max Door Opening	39"	47"

BDH SERIES - BARN DOOR HARDWARE



BDH3166 (6' 6")
BDH3180 (8' 0")

Mounting Type: Top

Design: Single Wheel



BDH3066 (6' 6")
BDH3080 (8' 0")

Mounting Type: Surface

Design: Strap Wheel



BDH3266 (6' 6")
BDH3280 (8' 0")

Mounting Type: Surface

Design: Arrowhead



BDH3366 (6' 6")
BDH3380 (8' 0")

Mounting Type: Top

Design: Single Wheel



BDH3466 (6' 6")
BDH3480 (8' 0")

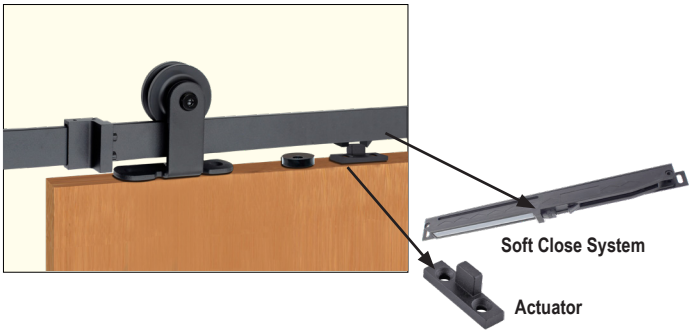
Mounting Type: Surface

Design: Strap Wheel

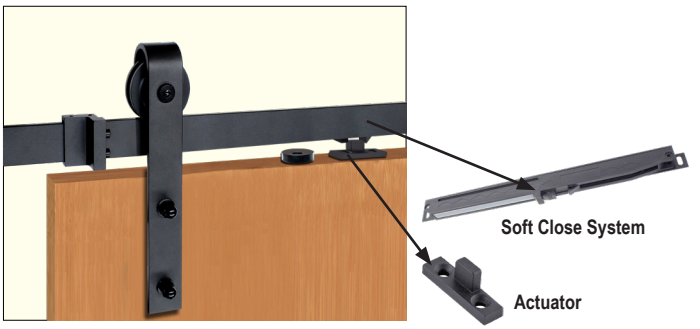
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BDH SERIES - BARN DOOR HARDWARE WITH SOFT CLOSE SYSTEM

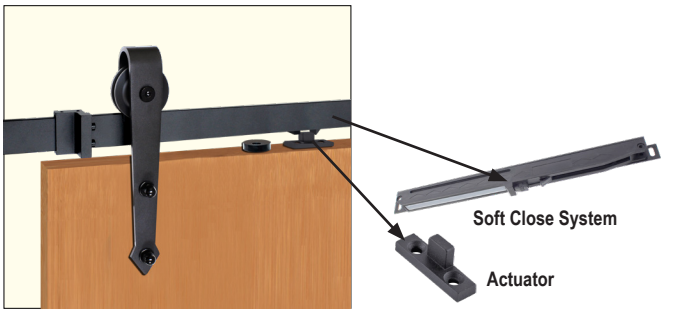
► ***SCSBDH Soft Close System*** *Pair of Soft Close System at both ends. Comes as a complete set with door track and components. Easy installation on roller track without the need to mortise on door. Maximum door weight is 60 kg (132 lbs). Can also be purchased as accessory only.*



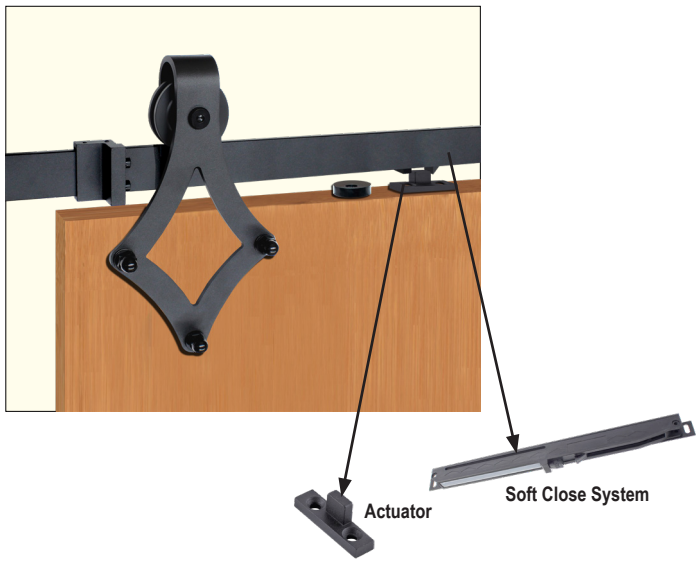
SCSBDH3166 (6' 6") **SCSBDH3180** (8' 0")	
Mounting Type: Top	**Design:** Single Wheel



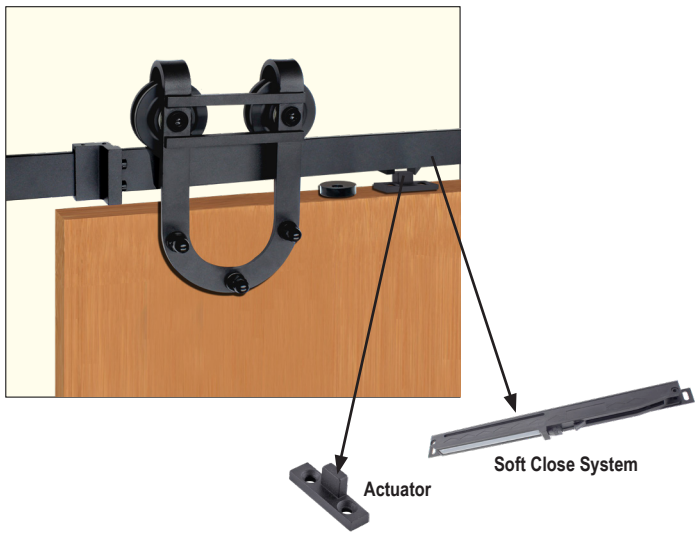
SCSBDH3066 (6' 6") **SCSBDH3080** (8' 0")	
Mounting Type: Surface	**Design:** Strap Wheel



SCSBDH3266 (6' 6") **SCSBDH3280** (8' 0")	
Mounting Type: Surface	**Design:** Arrowhead



SCSBDH3366 (6' 6") **SCSBDH3380** (8' 0")	
Mounting Type: Surface	**Design:** Diamond



SCSBDH3466 (6' 6") **SCSBDH3480** (8' 0")	
Mounting Type: Surface	**Design:** Horseshoe

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SLIDING DOOR HARDWARE

- *Blends seamlessly with modern, rustic, classic, or contemporary interior designs.*
- ***With optional Soft Close System***
- *Provides a unique and clean look to any interior doorway or room divider*
- *Contains ultra-quiet rollers for smoother operation*
- *Includes adjustable bumpers on both sides*
- *Has a durable **US15 Satin Nickel finish***
- *Includes all mounting accessories for easy assembly*
- *DOOR NOT INCLUDED*

SPECIFICATIONS		
Max Weight for Wood Doors or Sliding Panel	220 lbs (100kg)	
Wood Door Thickness	1 ⅜" - 1 ¾" (35 - 45 mm)	
Finish	Satin Nickel	
Sliding Rod Length	6' 6"	8' 0"
Max Door Opening	39"	47"

BDH SERIES - BARN DOOR HARDWARE



BDH3066 (6' 6")
BDH3080 (8' 0")

Mounting Type: Surface

Design: Strap Wheel



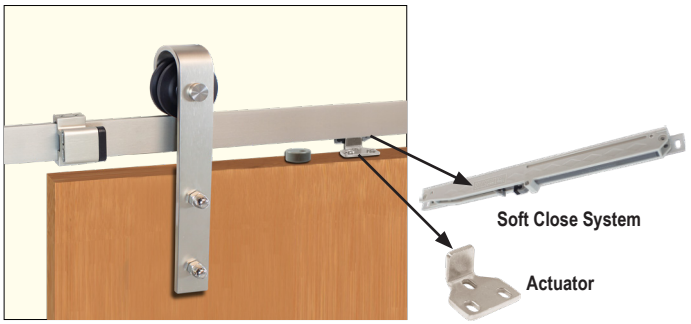
BDH3166 (6' 6")
BDH3180 (8' 0")

Mounting Type: Top

Design: Single Wheel

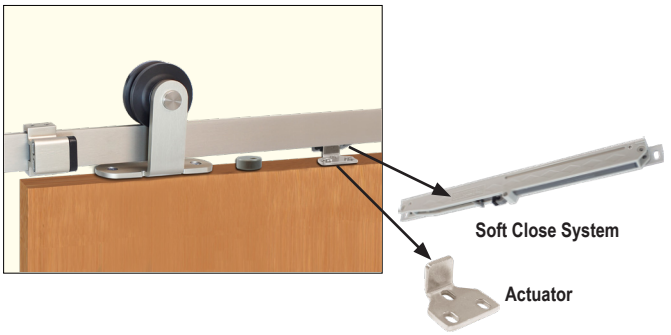
BDH SERIES - BARN DOOR HARDWARE WITH SOFT CLOSE SYSTEM

- ***SCSBDH Soft Close System** Pair of Soft Close System at both ends. Comes as a complete set with door track and components. Easy installation on roller track without the need to mortise on door. Maximum door weight is 60 kg (132 lbs). Can also be purchased as accessory only.*



SCSBDH3066 (6' 6")
SCSBDH3080 (8' 0")

Mounting Type: Surface | **Design:** Strap Wheel



SCSBDH3166 (6' 6")
SCSBDH3180 (8' 0")

Mounting Type: Top | **Design:** Single Wheel

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SDH SERIES ACCESSORIES

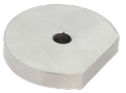
ITEM #	DESCRIPTION	FINISH
SDH-SPC-17ADJ	17mm ($^{11}/_{16}$") Spacer for **Adjustable Mount Plates**	US32D
SDH-SPC-13ADJ	13mm ($^{33}/_{64}$") Spacer for **Adjustable Mount Plates**	
SDH-SPC-06ADJ	6mm ($^{15}/_{64}$") Spacer for **Adjustable Mount Plates**	
SDH-SPC-05	5mm ($^{13}/_{64}$") Spacer for **Adjustable Mount Plates**	PVC
SDH-SPC-015	1.5mm ($^{1}/_{16}$") Spacer for **Adjustable Mount Plates**	
SDH-SPC-17FIX	17mm ($^{11}/_{16}$") Spacer for **Fixed Mount Plates**	US32D
SDH-SPC-13FIX	13mm ($^{33}/_{64}$") Spacer for **Fixed Mount Plates**	
SDH-SPC-06FIX	6mm ($^{15}/_{64}$") Spacer for **Fixed Mount Plates**	
DS-1012	Door Stop for **SDH10, SDH11, SDH20, and SDH30**	
DS-2100	Door Stop for **SDH12, SDH21 and SDH31**	
DS-2200	Soft Action Roller Stop for **SDH10, SDH11, SDH20 and SDH21**	
DS-2300	Soft Action Roller Stop for **SDH12, SDH30 and SDH31**	
SDH-FG-WD	SDH Floor Guide for **Wood Doors**	
SDH-FG-GL	SDH Floor Guide for **Glass Doors**	
SDHRC	SDH Rail Connector for interconnecting two rails together	
SDH-SCWD-ACT	**Wood Door** Actuators for SDH Soft Close System	
SDH-SCGL-ACT	**Glass Door** Actuators for SDH Soft Close System	
SCS40 or SCS80	SDH Soft Close System; **SCS40** (40-88 lbs) or **SCS80** (88-176 lbs)	
SR166A	6'6" SDH Sliding Rod with Accessories, **Adjustable Mount** with Spacers ***(See Pricelist page for reference)***	
SR182A	8'2" SDH Sliding Rod with Accessories, **Adjustable Mount** with Spacers ***(See Pricelist page for reference)***	
SR166F	6'6" SDH Sliding Rod with Accessories, **Fixed Mount** ***(See Pricelist page for reference)***	
SR182F	8'2" SDH Sliding Rod with Accessories, **Fixed Mount** ***(See Pricelist page for reference)***	
SCRAIL66	6'6" SDH Rail with built-in (2) **SCS80** Soft Closer and Accessories ***(See Pricelist page for reference)***	
SCRAIL80	8'2" SDH Rail with built-in (2) **SCS80** Soft Closer and Accessories ***(See Pricelist page for reference)***	



SDH-SPC-17ADJ (17mm)



SDH-SPC-13ADJ (13mm)



SDH-SPC-06ADJ (6mm)



SDH-SPC-17FIX (17mm)



SDH-SPC-13FIX (13mm)



SDH-SPC-06FIX (6mm)



SDH-SPC-05 (05mm)



SDH-SPC-015 (1.5mm)



DS-1012



DS-2100



DS-2200



DS-2300



SDH-FG-WD



SDH-FG-GL



SDHRC



SDH-SCWD-ACT



SDH-SCGL-ACT



SCS40 (40-88 LBS) / SCS80 (88-176 LBS)

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BDH SERIES ACCESSORIES

ITEM #	DESCRIPTION	FINISH
BDH-SPC-55	55mm (2 3/16") Barn Door Spacer	BLACK
BDH-SPC-50	50mm (2") Barn Door Spacer	
BDH-SPC-45	45mm (1 ¾") Barn Door Spacer	
BDH-SPC-40	40mm (1 9/16") Barn Door Spacer	
BDH-SPC-34	34mm (1 5/16") Barn Door Spacer	
BDH-SPC-29	29mm (1 ⅛") Barn Door Spacer	
BDH-SCRW-130	130mm (5 ⅛") Barn Door Mounting Screws	
BDH-SCRW-120	120mm (4 ¾") Barn Door Mounting Screws	
BDH-SCRW-110	110mm (4 5/16") Barn Door Mounting Screws	
BDH-SCRW-100	100mm (3 15/16") Barn Door Mounting Screws	
BDH-SCRW-090	90mm (3 9/16") Barn Door Mounting Screws	
BDHBOLT134	Long Bolts for 1 ¾" thick doors	
BDHBOLT138	Short Bolts for 1 ⅜" thick doors	
BDHAJP	Barn Door Anti-Jump Pins	
BDHFG	Barn Door Floor Guide	
BDHSTP-OPN	Barn Door Stoppers	
BDHSTP-CLS	Barn Door Stoppers	
BDHCP	Barn Door Connector Plate. Securely connects two door tracks with easy installation.	
BDHCP-SLIM	Slim Barn Door Connector Plate. Securely connects two door tracks with easy installation.	
BDH-SCWD-ACT	Wood Door Actuators for BDH Soft Close System	
SCSBDH	BDH Soft Close System. 60 kg (132 lbs) maximum door weight.	
BDPUL6000	Flat Type, Barn Door Pull Handle, 9 ½" x 1 ¼" x 2"	
FTRACK66	6'6" BDH Sliding Track with Accessories *(See Pricelist page for reference)*	
FTRACK80	8'2" BDH Sliding Track with Accessories *(See Pricelist page for reference)*	
SCBAR3066	6'6" BDH Sliding Track with Soft Close System and Accessories *(See Pricelist page for reference)*	
SCBAR3080	8'2" BDH Sliding Track with Soft Close System and Accessories *(See Pricelist page for reference)*	



BDH-SCRW-130 (130mm)



BDH-SCRW-120 (120mm)



BDH-SCRW-110 (110mm)



BDH-SCRW-100 (100mm)



BDH-SCRW-090 (90mm)



BDHBOLT134



BDHBOLT138



BDH-SPC-55 (55mm)



BDH-SPC-50 (50mm)



BDH-SPC-45 (45mm)



BDH-SPC-40 (40mm)



BDH-SPC-34 (34mm)



BDH-SPC-29 (29mm)



BDHAJP



BDHFG



BDHSTP-OPN



BDHSTP-CLS



BDHCP



BDHCP-SLIM



BDH-SCWD-ACT



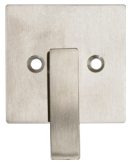
SCSBDH (132LBS MAX WEIGHT)



BDPUL6000

The illustration and technical description in this Specification sheet is current as of date in the version box above. Cal-Royal Products, Inc. reserves the right to and may frequently make changes and/or improvements in designs and dimensions.

SDH & BDH SERIES ACCESSORIES

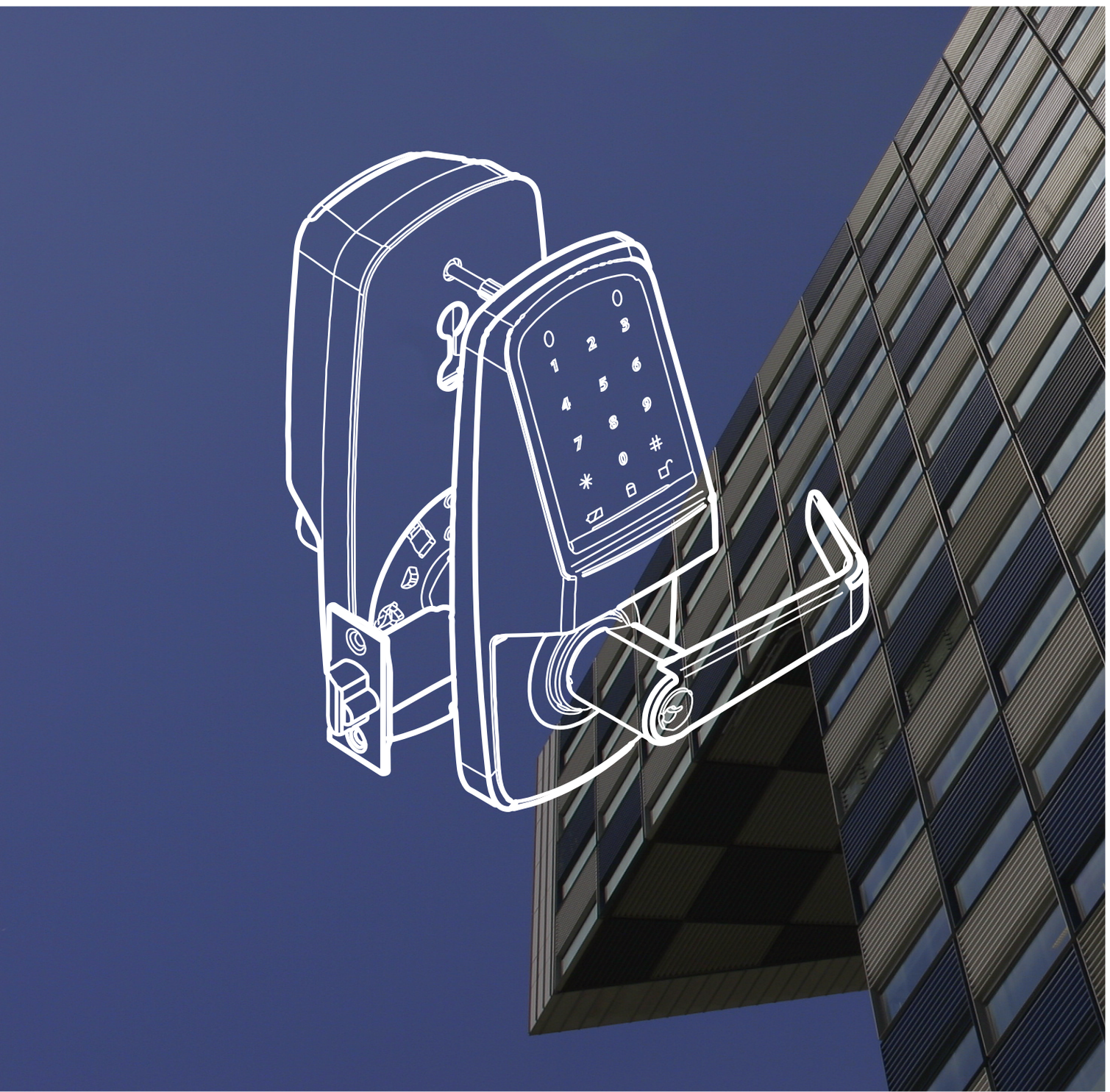
ILLUSTRATION	ITEM #	DESCRIPTION	FINISH
 PULL-15778-BTB	FFP-28	8" x 2 1/16" Rectangular **Mortised** Door Handle for Wood Doors, 7 3/32" CTC	US32D, BLACK
 PULL-2815	PULL-2815	Sliding Door Handle Pull for Wood Doors, 7 3/32" CTC 11 7/8" x 1" Door Handle Pull, 8" x 2 1/16" Rectangular **Mortised** Door Handle	US32D, BLACK
 FFP-28	PULL-15778-BTB	11 7/8" x 1" Back to Back Door Pull Handle for Wood Doors, 7 7/8" CTC	US32D, BLACK, US10B
 SQP-012	FFP-250	8 21/32" x 2 3/8" Round Corner, **Surface Mounted** Door Handle for Wood Doors, 7 3/32" CTC	US32D, BLACK, US10B
 PULL-60	PULL-60	Sliding Door Handle Pull for Wood Doors, 7 3/32" CTC 11 13/16" x 1" Door Handle Pull 8 21/32" x 2 3/8" Round Corner, **Surface Mounted** Door Handle	US32D, BLACK, US10B
 FFP-250	SQP-012	12" x 2 1/2" x 25/32" Back to Back Square Pull Handle for Wood Doors, 11 7/32" CTC	US32D, BLACK
 FFP-200	FFP-200	2" x 13/32" Round Door Handle for Wood Doors, 5/16" hole diameter thru door	US32D, BLACK
 FFP-214	FFP-214	2 3/16" x 13/32" Round Door Handle for Wood Doors, 5/8" hole diameter thru door	US32D, BLACK
 FFP-215	FFP-215	2 1/2" x 11/32" Round Door Handle for Wood Doors, 1 27/32" hole diameter thru door	US32D, BLACK
 SDH-PLTD	SDLFP	4 5/8" x 1 1/4" Flip Privacy Sliding Door Lock with Strike Plate and Emergency Key	US32D, BLACK
 SDLFP	SDH-PLTD	2 1/2" x 3 3/16" Tear Drop Privacy Sliding Door Lock with 25/32" x 2 15/16" Strike Plate	US32D, US19, US10B
 SDH-FG-ADJ8	SDH-FG-ADJ1	Adjustable Floor Guide for both pre-grooved and non-grooved wood doors Front Arm: 1 3/4" x 1 3/4"; Back Arm: 1 7/8" x 1"	US32D, BLACK
 SDH-FG-ADJ1	SDH-FG-ADJ8	Adjustable Floor Guide Roller for non-grooved wood doors Dimensions: 2"(H) x 1 9/16" (W) x 4 1/8" (L)	US32D, BLACK
	SDLP-RND	Round Rose Privacy Sliding Door Lock, 1 1/2" x 5/8" thumbturn, with adjustable backset and push button dust proof strike	US32D, US10B
	SDLP-RND-ADA	Round Rose Privacy Sliding Door Lock, 2 1/2" x 5/8" ADA thumbturn, with adjustable backset and push button dust proof strike	US32D, US10B
 SDLP-RND  SDLP-RND-ADA  SDLP-SQ-ADA	SDLP-SQ-ADA	Square Rose Privacy Sliding Door Lock, 2 3/8" x 5/8" ADA thumbturn, with adjustable backset and push button dust proof strike	US32D, US10B

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CAL-ROYAL PRODUCTS, INC. USA

CRP SECURITIES USA

ELECTRONIC + ELECTRIFIED



CRP SECURITIES USA

CAL-ROYAL
PRODUCTS, INC. U.S.A.

ELECTRONIC AND ELECTRIFIED HARDWARE

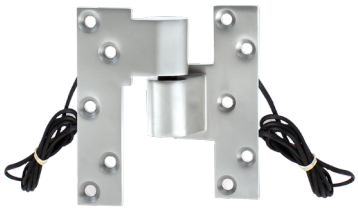
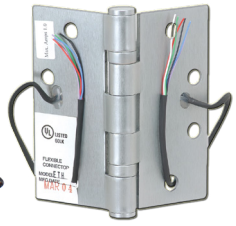




GRADE 1




GRADE 2

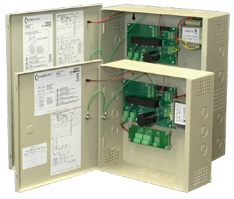
POWER TRANSFERS





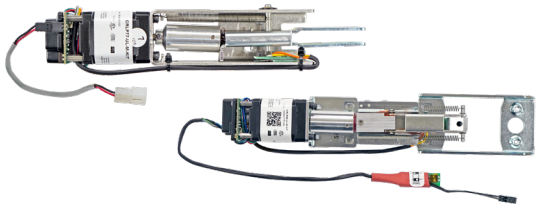
DEADBOLTS





POWER SUPPLIES



EXIT DEVICES

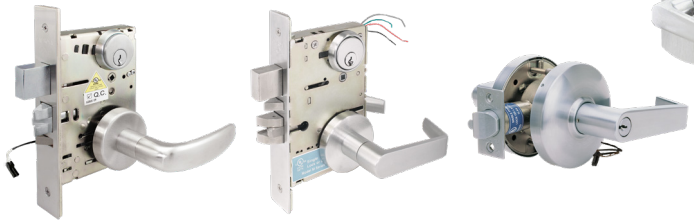


DOOR HOLDERS





EXIT TRIMS



MORTISE AND CYLINDRICAL LOCKS

CAL-ROYAL PRODUCTS, INC.
6605 Flotilla St., Commerce,CA 90040 U.S.A.
Tel: (323) 888-6601 Fax: (323) 888-6699
Website: www.cal-royal.com Email:sales@cal-royal.com

TABLE OF CONTENTS

I. ELECTRONIC LOCKS

GRADE 1

CR3000 1-2
CR6000 3-4
PL7100 5-6

GRADE 2

RS2100 7-8
CR9000 9-10

II. ELECTRONIC DEADBOLTS

GRADE 2

DB5000 11-12
DB9000 13-14

MEETS GRADE 3 STANDARDS

ZWDB-10 15-16

III. ELECTRIFIED LOCKS

NM300 Series Mortise Locks 17
SC400 Series Mortise Locks 18
Genesys Series Cylindrical Locks 19

IV. EXIT DEVICES & TRIMS

Delayed Egress 20-21
Electrified Trims 22
Electrical Latch Retraction (ELR) 26
Switches 27

ELECTRONIC TRIMS

CRCODE007 23
CR4000 23
CR5000 23

V. POWER TRANSFER

Electrified Hinges 28
Continuous Geared Hinges 28
CRPT Series 30
Electrified Intermediate Offset Pivot Hinges 29

VI. ELECTRONIC DOOR HOLDERS

Magnetic Door Holders 31
CR441EHO 32

VII. POWER SUPPLIES

CRPS1N, CRPS2, CRPS2BB 24
CRSW3, CRPS5, CRPS440B, CRPS480B 25

CR3000

DIGITAL KEYPAD DOOR LOCK
HEAVY DUTY GRADE 1

Available with Interchangeable Core

3 HOUR FIRE RATED
UL10C, UBC7-2-1997

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

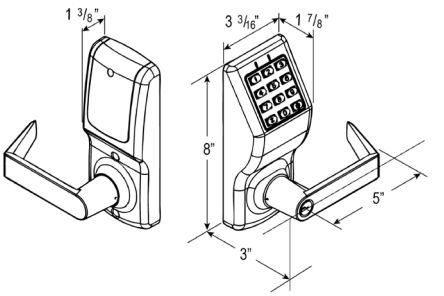
MEETS
The Buy American Act

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI A156.2 Series 4000, Grade 1
Exceeds 1,000,000 cycles

FEATURES

- MASTER CODE
- 10 MANAGER CODES
- 1 SUB-MASTER CODE
- 90 USER CODES
- 5 SERVICE CODES
- PASSAGE MODE
- WEATHER RESISTANT
- BUZZER & LED INDICATORS
- ANTI-TAMPER LOCKOUT
- LONG-LIFE BATTERY OPERATION
- 2 REMOTE SWITCHES
- INTERCHANGEABLE CORE
- CLUTCH TECHNOLOGY
- NON-HANDED, REVERSIBLE
- ENABLE & DISABLE USERS MODE
- TACTILE METAL KEYPAD
- USER FRIENDLY
- EASY INSTALLATION & PROGRAMMING
- 2 YEAR WARRANTY







INTERIOR

SPECIFICATIONS

APPLICATIONS
For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

DOOR RANGES
1 ⅜" to 2" thickness.

BACKSET
2 ¾" Standard, 2 ⅜", 3 ¾", 5" and 2 ¾" anti-friction latch with ¾" throw for pair of fire doors optional.

LATCH FACEPLATE
Standard 2 ¼" x 1 ⅛" for 2 ¾" backset.
Optional 2 ¼" x 1 ⅛" for 2 ⅜" backset.

STRIKES
ASA strike standard, "T" and full lip strike available on request.

ANSI STANDARDS
Meets or exceeds BHMA / ANSI A 156.2 Series 4000 Grade 1 requirements.

POWER SUPPLY
4 AA Batteries (comes standard in packing)

CLUTCH
Clutch technology allows turning of lever without retracting latch, thus prolonging the life of the lock by reducing stress on the spindle and other parts.

CYLINDER & KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

INTERCHANGEABLE CORE (IC)
Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW. Prefix "IC" before part number.

WEATHER RESISTANT
All models are weather resistant for temperature ranges of +158°F to -22°F (+70°C to -30°C).

KEYPAD
12 programmable buttons for multi-level access functions including group or individual user codes, master and management codes, passage and emergency or service codes.

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
626	US26D	Satin Chrome
613	US10B	Oil Rubbed Bronze

Refer to price list for stock finishes and functions

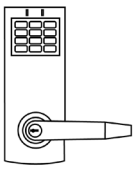
3 HOUR FIRE RATED UL10C, UBC7-2-1997

BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.

MEETS *The Buy American Act*

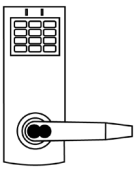
FUNCTIONS

CR3000



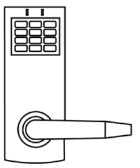
Latch bolt operated by lever from either side, except outside has to enter a pre-programmed code in the keypad in order to retract the latch upon turning the lever. Key overrides the use of the keypad.

ICCR3000



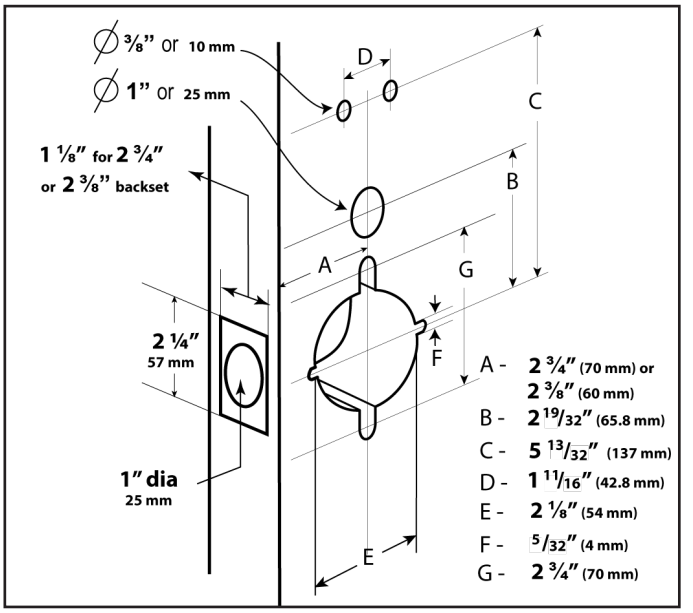
Latch bolt operated by lever from either side, except outside has to enter a pre-programmed code in the keypad in order to retract the latch upon turning the lever. Key overrides the use of the keypad. Available with Interchangeable Core.

CR3030



Latch bolt operated by lever from either side, except outside has to enter a pre-programmed code in the keypad in order to retract the latch upon turning the lever.

DOOR PREPARATION



FEATURES

- **Master Code** – performs all programming functions.
- **Sub-Master Code** – performs all programming functions except delete or change Master Code.
- **Manager Codes** – CR3000 can accommodate 10 Managers each having different codes and under each Manager has 9 Users (1 Manager + 9 Users = 1 Bank). Managers are capable of programming / adding and deleting User codes under his Bank. Managers are also capable of accessing the next higher Bank until another Manager Code appears.
- **Service Codes (5)** – are one-time codes only. It cannot be used again. Once a Service Code is entered, the unit will unlock but will automatically delete the code.
- **Passage Mode** – once enabled, the unit is unlocked continuously until "Disable Passage Mode" is initiated.
- **Tones and LED Indicators** – can be programmed for different settings. Making sure that every key pressed is confirmed by an accompanying LED and / or tone.
- **Next Free Code Location Finder** – no need of guessing what free location is available in entering a new code. CR3000 can pin point and tell you where the next available location is.
- **Code Locator Function** – CR3000 can tell you the exact location of a certain code. Making it easy to determine as to what manager a user code is under.
- **Keypad Anti-Tamper Lockout** – if an invalid code is entered 3 times in succession, the unit will turn off for 30 seconds to prevent tampering.
- **Remote Switch / Release** – CR3000 provides 2 Remote Switches. Either can be used for an emergency push button switch, or connected to alarm systems such as fire alarms.
- **Weather Resistant** – CR3000 are manufactured making sure that internal electronic parts are protected from moisture, dust, water and corrosion. All models are weather resistant for temperature ranges of +158°F to -22°F (+70°C to -30°C).
- **Clutch Technology** – the outside lever of the CR3000 is a free-wheeling lever. If no valid code is entered, the lever will just turn freely without moving any parts inside, thus preventing breaking or tampering.
- **Non-Handed** – CR3000 can be installed for both left and right door opening.

(IC) Indicates function available with BEST, FALCON & ARROW Interchangeable Core.

CR6000

DIGITAL TOUCH SCREEN DOOR LOCK WITH CLUTCH TECHNOLOGY & RFID PROXIMITY CARD

Optional Interchangeable Core for Best, Falcon and Arrow

MEETS The Buy American Act

3 HOUR FIRE RATED UL10C, UBC7-2-1997

BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.

FEATURES

- MASTER CODE
- 3 MANAGER CODES
- 1,000 USER CODES (COMBINED RFID & USER PIN CODE)
- 3 SERVICE CODES
- PASSAGE MODE
- 4-6 DIGIT CODE COMBINATION
- WEATHER RESISTANT
- 9V BATTERY
- ANTI-TAMPER LOCKOUT
- LOCK-OUT MODE
- CLUTCH TECHNOLOGY
- NON-HANDED, REVERSIBLE
- TOUCH SCREEN
- WAKE-UP BUTTON
- PROXIMITY CARD (13.56 MHz)
- RFID KEYFOB
- EASY INSTALLATION AND PROGRAMMING
- USER FRIENDLY
- 2 YEAR WARRANTY



GN DESIGN
CR6000
ICCR6000

AT DESIGN
AT6000
ICAT6000



SPA DESIGN
SPA6000
ICSPA6000





RFID KEYFOB (optional)



PROXIMITY RFID CARD



9V EMERGENCY BATTERY PORT



INSIDE UNIT

SPECIFICATIONS

APPLICATIONS
For offices, schools, hospitals, apartments, condo units, hotel / motel, residential, commercial and public buildings.

DOOR RANGES
1 ⅜" to 2".

BACKSET
2 ¾" standard or 2 ⅜" optional backset.

LATCH FACEPLATE
Standard 1 ⅛" x 2 ¼" for 2 ¾" backset.
Optional 1" x 2 ¼" for 2 ⅜" backset.

STRIKES
ASA Strike standard, T and full lip strike available on request.

ANSI STANDARDS
Certified ANSI / BHMA A 156.2 Series 4000 Grade 1 requirements.

CLUTCH
Clutch technology allows turning of lever without retracting latch, thus prolonging the life of the lock by reducing stress on the spindle and other parts.

PROXIMITY CARD (STANDARD)
Compatible with existing MIFARE infrastructures.
Operates at 13.56 MHz in accordance with ISO 14443A.
Inductive distance up to 1 $^{3}/_{16}$".

CYLINDER
6-pin solid brass "Schlage C" keyway standard with two brass keys per lock.

RFID KEYFOB (OPTIONAL)
Operates at 13.56 MHz in accordance with ISO 14443A.
Inductive distance up to 1 $^{3}/_{16}$".

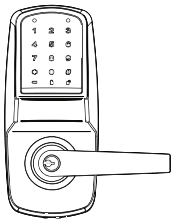
INTERCHANGEABLE CORE (IC)
Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST and FALCON. Prefix "IC" before part number.

WEATHER RESISTANT
All models are weather resistant for temperature ranges of -30°F ~ 150°F (-35°C ~ 66°C).

TOUCH SCREEN
Responds to human touch enabling convenient entrance or access to programming menu. After operation has been completed, the lock reverts to sleep mode.

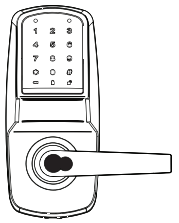
FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
626	US26D	Satin Chrome
613	US10B	Oil Rubbed Bronze
606	US4	Satin Brass
605	US3	Bright Brass
625	US26	Bright Chrome

FUNCTIONS



CR6000

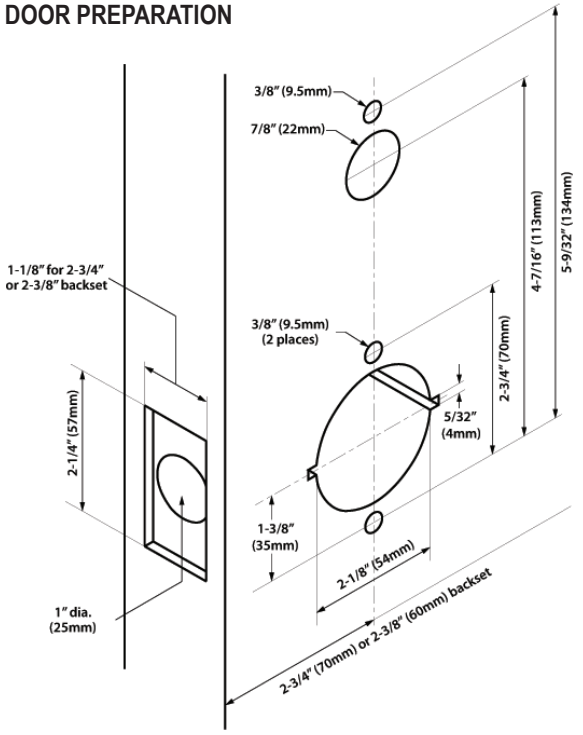
Latch bolt operated by lever from either side. Outside would need to enter pre-programmed code on the touch screen in order to retract the latch upon turning lever. Key overrides the use of the touch screen.



ICCR6000

Latch bolt operated by lever from either side. Outside would need to enter pre-programmed code on the touch screen in order to retract the latch upon turning lever. Key overrides the use of the touch screen. Available with Small Format Interchangeable Core

DOOR PREPARATION



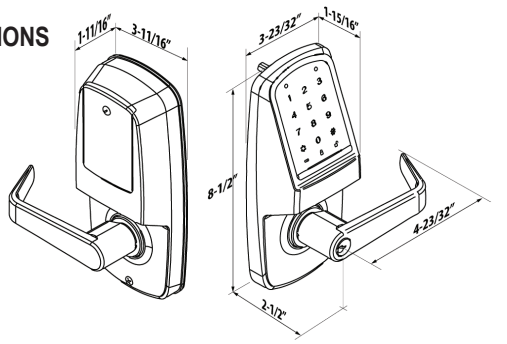
HOW TO ORDER: For "AT" and "SPA" design, replace design name. Example, "AT6000". Prefix "IC" for Interchangeable Core.

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.

FEATURES

- **Master PIN Code** - Use for programming the lock and entering Manager and User PIN codes. Can also be use to open the lock and reset to factory settings.
- **Manager PIN Code** - Use to open the door with lock out mode. Also functions like a User PIN code. This feature can also program 3 one-time user codes.
- **User PIN Code** - This feature only opens the lock by entering the code on the touch pad. It won't be able to program or change settings. This lock can accommodate up to 1000, 3 to 6 digits combined RFID and User PIN codes.
- **One-Time User PIN Code** - Can only be used once. This lock can store up to 3 one-time User PIN code simultaneously.
- **Passage Mode** - Enabling passage mode allows continuous entry for non-restricted traffic. Passage mode can either be enabled or disabled by the Master Pin code. When in passage mode, the unlocked padlock icon will appear on the screen.
- **Beep & LED Indicators** - This indicators can either be programmed for different settings. This feature is useful in making sure that every keypress was successfully entered.
- **Lock-Out Mode** - This feature can either be enabled by the Master or Manager PIN Codes. When enabled, it restricts all User PIN codes access except Master and Manager PIN codes.
- **SMART Card**
  - Compatible with existing MIFARE infrastructures
  - Operates at 13.56 MHz in accordance with ISO14443A
  - Inductive distance up to 1 $^{3}/_{16}$"
- **Touch Screen Anti-Tamper Lock Out** - This function will auto shut off the lock if an invalid code is entered 5 times in succession to prevent tampering.
- **Weather Resistant** - CR6000 are manufactured making sure that internal electronic parts are protected form moisture, dust water and corrosion. All models are weather resistant for temperature ranges of -30°F ~ 150°F (-35°C ~ +66°C).
- **Wake-Up Button** - Pressing this button activates the number pad. Enter the PIN code when while the number pad is illuminated. This button is also used to quit programming mode.

DIMENSIONS



PL7100

HEAVY DUTY GRADE 1 COMMERCIAL PHONE LOCK WITH CLUTCH COMPATIBLE WITH APPLE AND ANDROID PHONES

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

MEETS
The Buy American Act

- **APPLE AND ANDROID COMPATIBLE**
- **BLE (BLUETOOTH LOW ENERGY) MANAGEMENT**
- **OPTIONAL GATEWAY CONNECTIVITY (REMOTE MANAGEMENT THROUGH THE INTERNET)**
- **PROXIMITY RFID CARD (13.56 MHz) STANDARD**
- **DIGITAL TOUCHSCREEN**
- **TIMESTAMPED ACCESS LOG (AUDIT TRAIL)**
- RFID KEY FOB (OPTIONAL)
- 1 ADMIN PHONE, 49 CLIENT PHONES PER LOCK
- 50 DIGITAL TOUCHSCREEN COMBINATIONS PER LOCK
- 50 RFID CARDS / KEY FOBS PER LOCK
- 1 ADMIN PHONE CAN MANAGE UP TO 250 LOCKS
- 10,000 AUDIT TRAIL ENTRIES
- REMOTE SWITCH CONNECTOR
- EMERGENCY KEY OVERRIDE
- ALARM SYSTEM CONNECTOR
- INDIVIDUAL USER ACCESS MODE
- PASSAGE MODE
- WEATHER RESISTANT
- BUZZER & LED INDICATORS
- ANTI-TAMPER LOCKOUT
- LOW BATTERY WARNING
- EMERGENCY CHARGE INTERFACE
- CLUTCH TECHNOLOGY
- NON-HANDED, REVERSIBLE
- 2 YEAR WARRANTY



CLUTCH





RFID CARD



RFID KEY FOB (optional)



BLEGW-99 (optional) Internet to Bluetooth signal converter (BRIDGE)



9V EMERGENCY BATTERY PORT

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI A156.2 Series 4000, Grade 1 requirements
Exceeds 1,000,000 cycles

SPECIFICATIONS

APPLICATIONS
For offices, schools, hospitals, apartments, hotel / motel, residential, commercial and public buildings.

ANSI STANDARDS
Meets or exceeds BHMA / ANSI A 156.2 Series 4000 Grade 1 requirements.

DOOR RANGES
1 ⅜" to 1 ¾" thickness.

BACKSET
2 ¾" Standard, 2 ⅜", 3 ¾", 5" and 2 ¾" anti-friction latch with ¾" throw for pair of fire doors optional.

LATCH FACEPLATE
Standard 2 ¼" x 1 ⅛" for 2 ¾" backset.
Optional 2 ¼" x 1 ⅛" for 2 ⅜" backset.

PROXIMITY (RFID) CARD (STANDARD)
2 pcs. included. Compatible with existing MIFARE infrastructure.
Operates at 13.56 MHz in accordance with ISO 14443A.
Inductive distance up to 1 3/16".

RFID KEYFOB (OPTIONAL)
Operates at 13.56 MHz in accordance with ISO 14443A.
Inductive distance up to 1 3/16".

POWER SUPPLY
4 AA 1.5V Alkaline Batteries (comes standard in packing).

CLUTCH
Clutch technology allows turning of lever without retracting the latch. Thus prolonging the life of the lock by reducing stress on the spindle and other parts.

CYLINDER & KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

WEATHER RESISTANT
All models are weather resistant for operating temperature ranges of +149°F to -4°F (+65°C to -20°C) and storage temperature ranges of +176°F to -22°F (+80°C to -30°C).

BLUETOOTH CONNECTIVITY
Lock can be managed / synced using the K3 (Apple) and K3+ (Android) app.

ACCESS LOG (AUDIT TRAIL)
The K3 app features a 24 / 7 activity log, so you can keep track of who accessed the lock. A timestamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.

STRIKES
ASA strike standard, "T" and full lip strikes available on request.

BLE GATEWAY CONNECTIVITY
Remote access / management of locks though the internet.

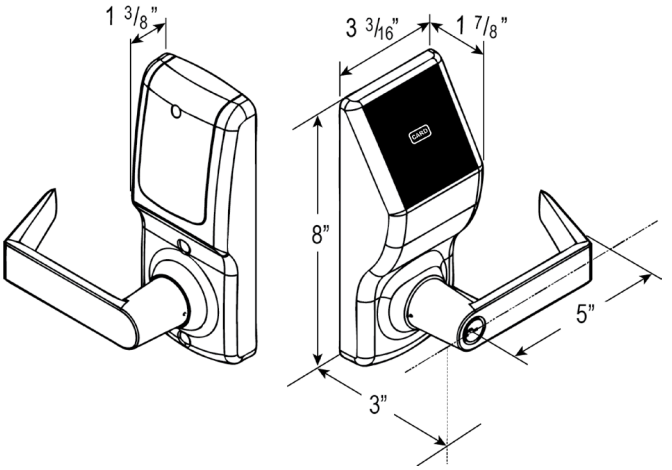
3 HOUR FIRE RATED UL10C, UBC7-2-1997

MEETS *The Buy American Act*

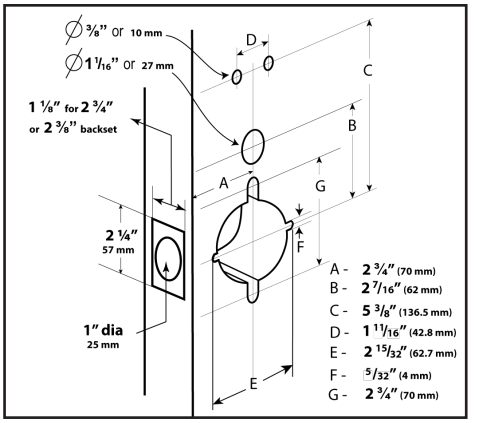
FINISHES AVAILABLE		
BHMA SYMBOL	**US CODE**	**DESCRIPTION**
626	US26D	Satin Chrome
613	US10B	Oil Rubbed Bronze
606	US4	Satin Brass
605	US3	Bright Brass
625	US26	Bright Chrome

Refer to price list for stock finishes and functions

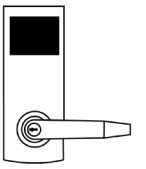
TECHNICAL SPECS	
Operating Voltage	4x AA 1.5V Alkaline
Operating Temperature	+149°F to -4°F (+65°C to -20°C)
Storage Temperature	+176°F to -22°F (+80°C to -30°C)
Operating Humidity	5% to 95% relative humidity; non-condensing
Transmit Frequency	13.56 MHz
User ID Capacity	1 Admin + 49 Client Phones + 50 Digital Touch Screen Combinations + 50 (Cards / Key Fobs)



DOOR PREPARATION



PL7100



FUNCTIONS

Latch bolt operated by lever from either side, except outside has to use a pre-programmed RFID card or a registered smart phone to touch the face of the face lock in order to retract the latch upon turning the lever. Key overrides the use of the RFID card and smartphone.

FEATURES

- **Apple and Android Compatible** – iPhone 4S or above with iOS 8.0 and above. Android 4.3 or above with Bluetooth Low Energy capability.
- **Gateway Connectivity** – optional gateway device to connect compatible locks to the internet, so users can manage locks remotely.
- **Bluetooth Connectivity** – lock can be managed / synced using the K3 (Apple) and K3 (Android phones without NFC), and K3+ (Android phones with NFC) app.
- **NFC (Near Field Communication) Interface** – NFC compatible for android phones. For the complete list of phones, please go to link: www.nfcworld.com/nfc-phones-list/#available
- **Admin Phone** – a lock can only have one Administrator phone at a time. Only smartphones are used as Administrator. One admin phone can manage up to 250 locks.
- **Access Log (Audit Trail)** – the K3 app features a 24 / 7 activity log, so you can keep track of who accessed the lock. A timestamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.
- **Passage Mode** – once enabled by the Admin, the unit is unlocked continuously until "Disable Passage Mode" is initiated.
- **Tones and LED Indicators** – indicates the operating status of the lock accompanied by the corresponding tones / beeps.
- **Restricted Access Right** – PL7100 can be programmed to specify the access period or intervals of users.
- **Keypad Anti-Tamper Lockout** – if an invalid code is entered 3 times consecutively, the unit will alarm 10 beeps and stay idle for 1 minute.
- **Remote Switch / Release** – PL7100 provides 2 remote switches. Either can be used for an emergency push button switch, or can be connected to alarm systems / fire alarms.
- **RFID Card (Standard)** – compatible with existing MIFARE infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".
- **RFID KEY FOB (Optional)** – compatible with existing MIFARE infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".
- **Weather Resistant** – the PL7100 is designed to make sure that internal electronic parts are protected from moisture, dust, water and corrosion. All models are weather resistant with operating temperature of +149°F to -4°F (+65°C to -20°C) and storage temperature of +176°F to -22°F (+80°C to -30°C).
- **Low Battery Warning** – when voltage is lower than safety power, PL7100 gives beep sound warnings after unlocking the device.
- **Clutch Technology** – the outside lever of the PL7100 is a free-wheeling lever. If no valid code is entered, the lever will just turn freely without moving any parts inside. Thus, preventing breaking or tampering.
- **Non-Handed** – PL7100 is reversible for left and right hand openings.

RS2100

STANDARD DUTY GRADE 2
RESIDENTIAL / COMMERCIAL PHONE LOCK
COMPATIBLE WITH APPLE AND ANDROID PHONES

Meets ADA requirements
Specially designed for Barrier Free Application
Conforms with ANSI A156.2, Series 4000, Grade 2 requirements, Exceeds 1,000,000 cycles

- **APPLE AND ANDROID COMPATIBLE**
- **BLE (BLUETOOTH LOW ENERGY) MANAGEMENT**
- **OPTIONAL GATEWAY CONNECTIVITY (REMOTE MANAGEMENT THROUGH THE INTERNET)**
- **PROXIMITY RFID CARD (13.56 MHz) STANDARD**
- **DIGITAL TOUCHSCREEN**
- **TIMESTAMPED ACCESS LOG (AUDIT TRAIL)**
- RFID KEY FOB (OPTIONAL)
- 1 ADMIN PHONE, 49 CLIENT PHONES PER LOCK
- 50 DIGITAL TOUCHSCREEN COMBINATIONS PER LOCK
- 50 RFID CARDS / KEY FOBS PER LOCK
- 10,000 AUDIT TRAIL ENTRIES
- 1 ADMIN PHONE CAN MANAGE UP TO 250 LOCKS
- EMERGENCY KEY OVERRIDE
- INDIVIDUAL USER ACCESS MODE
- PASSAGE MODE
- WEATHER RESISTANT
- BUZZER & LED INDICATORS
- ANTI-TAMPER LOCKOUT
- LOW BATTERY WARNING
- EMERGENCY CHARGE INTERFACE
- CLUTCH TECHNOLOGY
- NON-HANDED, REVERSIBLE
- 2 YEAR WARRANTY





RFID KEY FOB (optional)



BLEGW-99 (optional) Internet to Bluetooth signal converter (BRIDGE)



9V EMERGENCY BATTERY PORT



RFID CARD

SPECIFICATIONS

APPLICATIONS
For residential and standard duty commercial applications.

DOOR RANGES
1 ⅜" to 1 ¾" thickness.

BACKSET
2 ⅜" Standard, optional 2 ¾"

LATCH FACEPLATE
Standard 2 ¼" x 1" for 2 ⅜" backset.
Optional 2 ¼" x 1 ⅛" for 2 ¾" backset.

PROXIMITY CARD (STANDARD)
2 pcs. included. Compatible with existing MIFARE infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A.
Inductive distance up to 1 $^{3}/_{16}$".

RFID KEY FOB (OPTIONAL)
Operates at 13.56 MHz in accordance with ISO 14443A.
Inductive distance up to 1 $^{3}/_{16}$".

POWER SUPPLY
4 AA 1.5V Alkaline Batteries (comes standard in packing).

BLE GATEWAY CONNECTIVITY
Optional BLE Gateway connectivity for remote lock management.

CLUTCH
Clutch technology allows turning of lever without retracting latch. Thus prolonging the life of the lock by reducing stress on the spindle and other parts.

CYLINDER & KEYWAYS
5 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 /60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

WEATHER RESISTANT
All models are weather resistant for operating temperature ranges of +149°F to -4°F (+65°C to -20°C) and storage temperature ranges of +176°F to -22°F (+80°C to -30°C).

BLUETOOTH CONNECTIVITY
Lock can be managed / synced using the K3 (Apple) and K3+ (Android) app.

ACCESS LOG (AUDIT TRAIL)
The K3 app features a 24 / 7 activity log, so you can keep track of who accessed the lock. A timestamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.

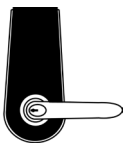
STRIKES
Full lip strike standard. ASA strike available on request.

FINISHES AVAILABLE		
BHMA SYMBOL	**US CODE**	**DESCRIPTION**
605	US3	Polished Brass
613	US10B	Oil Rubbed Bronze
619	US15	Satin Nickel
626	US26D	Satin Chrome

Refer to price list for stock finishes and functions

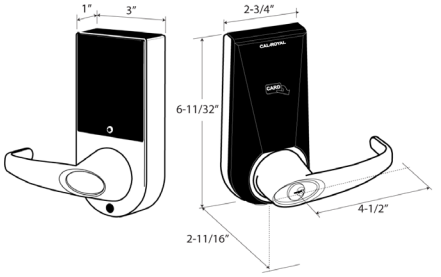
FUNCTIONS

RS2100

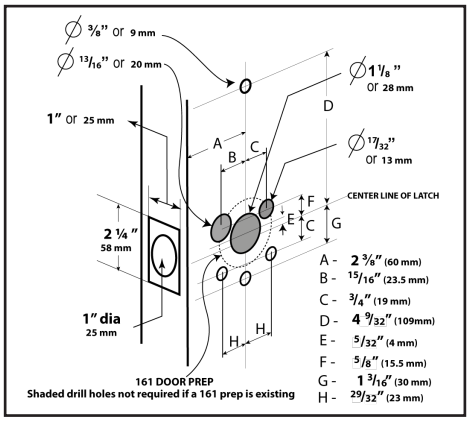


Latch bolt operated by lever from either side, except outside has to use a pre-programmed RFID card or a registered smart phone to touch the face of the face lock in order to retract the latch upon turning the lever. Key overrides the use of the RFID card and smartphone.

TECHNICAL SPECS	
Operating Voltage	4x AA 1.5V Alkaline
Operating Temperature	+149°F to -4°F (+65°C to -20°C)
Storage Temperature	+176°F to -22°F (+80°C to -30°C)
Operating Humidity	5% to 95% relative humidity; non-condensing
Transmit Frequency	13.56 MHz
User ID Capacity	1 Admin + 49 Client Phones + 50 Digital Touch screen Combinations + 50 (Cards / Key Fobs)



DOOR PREPARATION



FEATURES

- **Apple and Android Compatible** – iPhone 4S or above with iOS 8.0 and above. Android 4.3 or above with Bluetooth Low Energy capability.
- **Gateway Connectivity** – optional gateway device to connect compatible locks to the internet, so users can manage locks remotely.
- **Bluetooth Connectivity** – lock can be managed / synced using the K3 (Apple) and K3 (Android phones without NFC), and K3+ (Android phones with NFC) app.
- **NFC (Near Field Communication) Interface** – NFC compatible for android phones. For the complete list of phones, please go to link: www.nfcworld.com/nfc-phones-list/#available
- **Admin Phone** – a lock can only have one Administrator phone at a time. Only smartphones are used as Administrator. One admin phone can manage up to 250 locks.
- **Access Log (Audit Trail)** – the K3 app features a 24 / 7 activity log, so you can keep track of who accessed the lock. A timestamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.
- **Passage Mode** – once enabled by the Admin, the unit is unlocked continuously until "Disable Passage Mode" is initiated.
- **Tones and LED Indicators** – indicates the operating status of the lock accompanied by the corresponding tones / beeps.
- **Restricted Access Right** – RS2100 can be programmed to specify the access period or intervals of users.
- **Keypad Anti-Tamper Lockout** – if an invalid code is entered 3 times consecutively, the unit will alarm 10 beeps and stay idle for 1 minute.
- **RFID Card (Standard)** – compatible with existing MIFARE infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".
- **RFID KEY FOB (Optional)** – compatible with existing MIFARE infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".
- **Weather Resistant** - the RS2100 is designed to ensure that internal electronic parts are protected from moisture, dust, water and corrosion. All models are weather resistant with operating temperature of +149°F to -4°F (+65°C to -20°C) and storage temperature of +176°F to -22°F (+80°C to -30°
- **Low Battery Warning** – when voltage is lower than safety power, RS2100 gives beep sound warning after unlocking the device.
- **Clutch Technology** – the outside lever of the RS2100 is a free-wheeling lever. If no valid code is entered, the lever will just turn freely without moving any parts inside. Thus, preventing breaking or tampering.
- **Non- Handed** – RS2100 is reversible for left and right hand openings.

CR9000

COMMERCIAL, GRADE 2
DIGITAL TOUCH SCREEN DOOR LOCK
WITH CLUTCH TECHNOLOGY

Optional Interchangeable Core for Best, Falcon and Arrow

20 MIN FIRE RATED
UL10C, UBC 7-2-1997

MEETS
The Buy American Act

FEATURES

- MASTER CODE
- USER PIN CODE UP TO 50 CODES, 4 - 6 DIGITS
- ONE-TIME USER PIN CODE UP TO 2 DIFFERENT CODES, 4 - 6 DIGITS
- NON-HANDED, FIELD REVERSIBLE LEVERS
- UL / cUL LISTED UP TO 20-MINUTE RATING
- CONFORMED TO ADA REQUIREMENT FOR BARRIER-FREE ACCESSIBILITY
- ENABLES LOCK-OUT MODE
- ENABLES PASSAGE MODE
- STAND-ALONE TOUCHSCREEN FEATURE
- TOUCH TO WAKE-UP
- LOW BATTERY INDICATOR
- AUTO RE-LOCK TIME
- SOUND ON / OFF
- 2 YEAR WARRANTY




DOVER DESIGN


MANHATTAN DESIGN


ROCHESTER DESIGN

Optional Lever Designs are Available in Non-IC Core Locks Only
Prefix **Lever Design** before **PART#** when ordering.
Example: To order **MAN Design in US26D**, Use "**MAN9000 US26D**"

SPECIFICATIONS

APPLICATIONS
For offices, schools, hospitals, apartments, condo units,hotel / motel, residential, commercial and public buildings.

DOOR THICKNESS
1 ⅜" (35mm) ~ 1 ¾" (45mm) standard.

BACKSET
2 ¾" (70mm) standard or 2 ⅜" (60mm) optional backset

LATCH FACEPLATE
1 ⅛" x 2 ¼" (28mm x 57mm) square corner, beveled, for 2 ¾" (70mm) backset standard
1" x 2 ¼" (25mm x 57mm) square corner, beveled, for 2 ⅜" (60mm) backset optional

STRIKES
ANSI Curved lip strike 1 ¼" x 4 7/8" x 1 3/16" (32mm x 124mm x 30mm) lip to center standard. Optional ("T", "Full-lip") strikes available on request, lip lengths and strike box available.

ANSI STANDARDS
Meets ANSI / BHMA A156.2 Series 4000, Grade 2 strength and operational requirements.

LATCH BOLT
½" (13mm) throw solid brass, deadlocking on keyed and non-keyed function.

CYLINDER
6-pin solid brass "Schlage C" keyway standard with two brass keys per lock.

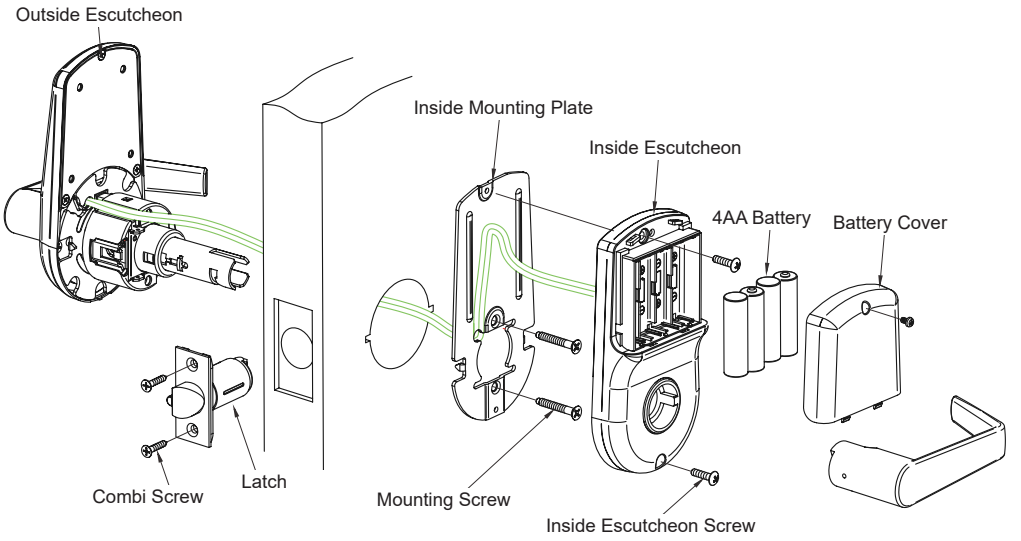
LEVER MECHANISM
Free wheeling lever mechanism. When the outside lever is locked, it will rotate freely up and down while remaining securely locked.

INTERCHANGEABLE CORE (IC)
SFIC Interchangeable Core security cylinder. Compatible 6 or 7 pin cores with Best and Master. Prefix "IC" before part number.

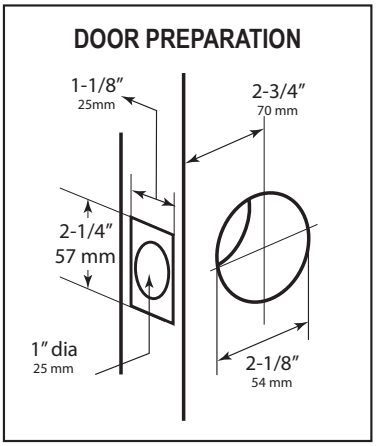
POWER SOURCE
Powered by 4 AA Alkaline batteries.

WEATHER RESISTANT
All models are weather resistant for temperature ranges of -30°F ~ 150°F (-35°C ~ +66°C) at 85% relative humidity.

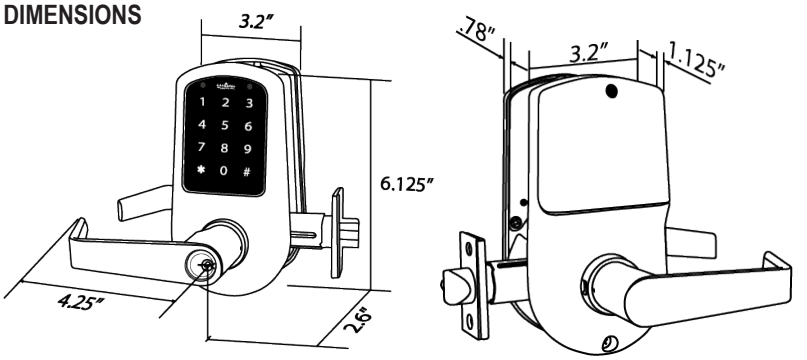
CR9000 FINISHES, FUNCTIONS and FEATURES



DOOR PREPARATION



DIMENSIONS



FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
626	US26D	Satin Chrome
613	US10B	Oil Rubbed Bronze
605	US3	Polished Brass
606	US4	Satin Brass
625	US26	Bright Chrome

Refer to Price List for stock finishes & functions

FUNCTIONS

CR9000



Latch bolt operated by lever from either side. Outside would need to enter pre-programmed code on the touch screen in order to retract the latch upon turning lever. Key overrides the use of the touch screen.

ICCR9000



Latch bolt operated by lever from either side. Outside would need to enter pre-programmed code on the touch screen in order to retract the latch upon turning lever. Key overrides the use of the touch screen. Available with Interchangeable Core.

FEATURES

Stand-alone Touchscreen
Responds to human touch enabling convenient entrance or access to programming menu. After operation has been completed, the lock reverts back to sleep mode.

Master PIN Code
Use for programming the lock and entering Master and User PIN codes.
Can also be used to open the lock and reset to factory settings. (6 digits)

User PIN Code
This feature only opens the lock by entering the code on the touch pad. It won't be able to program or change the settings. This lock can accommodate up to 50 user codes, 4 to 6 digits combined RFID and User PIN codes.

One-Time User PIN Code
Can only be used once. This lock can store up to 2 one-time User PIN code simultaneously.

Auto Re-lock Time
After successful code entry and unit unlock, it will automatically re-lock in default for five (5) seconds. It can be change by Master PIN code.

Passage Mode
Enabling passage mode allows continuous entry for non-restricted traffic. Passage mode can either be enabled or disabled by the Master Pin code. When in passage mode, the green LED light is blinking.

Lock-Out Mode
This feature can be enabled by Master PIN Code. When enabled, it restricts all User PIN codes access except Master PIN code.

Low Battery Indicator
The blinking action signals internal 4 AA alkaline batteries are low.

Weather Resistant
CR9000 are manufactured making sure that internal electronic parts are protected from moisture, dust water and corrosion. All models are weather resistant for temperature ranges of -30°F ~ 150°F (-35°C ~ +66°C) at 85% relative humidity.

Touch to Wake-up
Touching the screen activates the touchscreen. Enter the PIN code while the number pad is illuminated.

DB5000

GRADE 2 ELECTRONIC DEADBOLT
COMPATIBLE WITH APPLE AND ANDROID PHONES

- **APPLE AND ANDROID COMPATIBLE**
- **BLE (BLUETOOTH LOW ENERGY) MANAGEMENT**
- **OPTIONAL GATEWAY CONNECTIVITY (REMOTE MANAGEMENT THROUGH THE INTERNET)**
- **TIMESTAMPED ACCESS LOG (AUDIT TRAIL)**
- 1 ADMIN PHONE PER DEADBOLT
- 49 CLIENT PHONES PER DEADBOLT
- 10,000 AUDIT TRAIL ENTRIES
- INDIVIDUAL USER ACCESS MODE
- OPTIONAL AUTO RE-LOCKING
- DOOR JAM PROTECTOR
- SMART L / R HANDING LEARNING
- KEY / THUMB-TURN TURNING DETECTOR
- ONE ADMIN PHONE CAN MANAGE UP TO 250 DEADBOLTS
- WEATHER RESISTANT
- ANTI-TAMPER LOCKOUT
- LOW BATTERY WARNING
- EASY INSTALLATION & PROGRAMMING
- 1 YEAR ELECTRONIC WARRANTY





EXTERIOR



INTERIOR



BLEGW-99 (optional)
Internet to Bluetooth signal converter (BRIDGE)

SPECIFICATIONS

APPLICATIONS
For residential and standard duty commercial applications.

DOOR RANGES
1 ⅜" to 1 ¾" thickness

BACKSET
Adjustable 2 ⅜" (60mm) or 2 ¾" (70mm)

LATCH FACEPLATE
2 ¼" x 1"

STRIKES
Deadbolt strike 1 ⅛" x 2 ¾". Optional strikes available.

POWER SUPPLY
4 AA 1.5V Alkaline Batteries (comes standard in packing).

RADIO FREQUENCY
Bluetooth radio frequency: 2.4 GHz

OPTIONAL GATEWAY CONNECTIVITY
Optional BLE Gateway connectivity for remote lock management.

CYLINDER & KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

WEATHER RESISTANT
All models are weather resistant for operating temperature ranges of +149°F to -4°F (+65°C to -20°C) and storage temperature ranges of +176°F to -22°F (+80°C to -30°C).

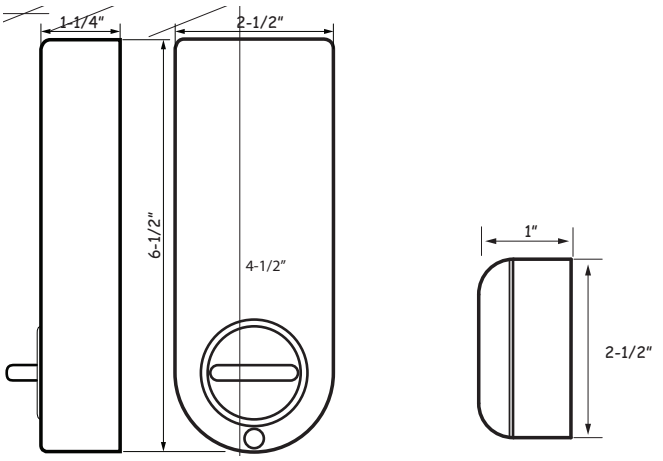
BLUETOOTH CONNECTIVITY
Lock can be managed / synced using the K3 (Apple) and K3+ (Android) app.

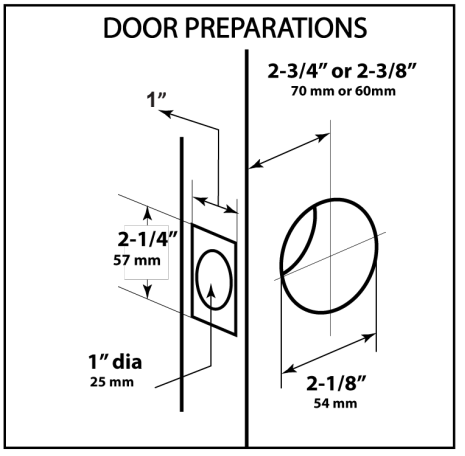
ACCESS LOG (AUDIT TRAIL)
The K3 app features a 24 / 7 activity log, so you can keep track which client accessed the lock. A time stamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.

FINISHES AVAILABLE		
BHMA SYMBOL	**US CODE**	**DESCRIPTION**
626	US26D	Satin Chrome
619	US15	Satin Nickel
613	US10B	Oil Rubbed Bronze
605	US3	Polished Brass

Refer to price list for stock finishes and functions

TECHNICAL SPECS	
Operating Voltage	4x AA 1.5V Alkaline
Operating Temperature	+149°F to -4°F (+65°C to -20°C)
Storage Temperature	+176°F to -22°F (+80°C to -30°C)
User ID Capacity	1 Admin + 49 Client Phones





FEATURES

- **Apple and Android Compatible** – iPhone 4S or above with iOS 8.0 and above. Android 4.3 or above with Bluetooth Low Energy capability.
- **Gateway Connectivity** – optional gateway device to connect compatible locks to the internet, so users can manage locks remotely.
- **Bluetooth Connectivity** – lock can be managed / synced using the K3 (Apple) and K3 (Android phones without NFC) and K3+ (Android phones with NFC) app.
- **Admin Phone** – a lock can only have one Administrator Phone at a time. Only smartphones are used as an Administrator. One admin phone can manage up to 250 deadbolts.
- **Access Log (Audit Trail)** – the K3 app features a 24 / 7 activity log, so you can keep track of who accessed the lock. A timestamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.
- **Optional Auto Re-locking** – Admin has the option to set time for deadbolt to automatically re-lock, from 10-250 seconds.
- **Passage Mode** – disable auto re-locking feature.
- **Restricted Access Right** – DB5000 can be programmed to specify the access period or intervals of users
- **Weather Resistant** – the DB5000 is designed to ensure that the internal electronic parts are protected from moisture, dust, water and corrosion. All models are weather resistant with operating temperature of +149°F to -4°F (+65°C to -20°C) and storage temperature of +176°F to -22°F (+80°C to -30°C).
- **Low Battery Warning** – when voltage is lower than safety power, the deadbolt gives warning beeps after successfully unlocking the device.
- **Smart L / R Learning** – DB5000 can test and learn the handing of the door.
- **Door Jam Protector** – if the bolt fails to retract or project, due to any obstacles (e.g. door frame is not aligned with the door), DB will detect it and will stop turning the motor after a few tries. This is to prevent it from over-heating which could cause permanent damage to the circuit boards.
- **Key / Thumb-turn Turning Detector** – when operating the deadbolt by mechanical ways such as using keys or turning the thumb-turn, DB will detect it and include it in the access log.

DB9000

GRADE 2 ELECTRONIC TOUCHSCREEN DEADBOLT COMPATIBLE WITH APPLE AND ANDROID PHONES

- **APPLE AND ANDROID COMPATIBLE**
- **BLE (BLUETOOTH LOW ENERGY) MANAGEMENT**
- **OPTIONAL GATEWAY CONNECTIVITY (REMOTE MANAGEMENT THROUGH THE INTERNET)**
- **PROXIMITY RFID CARD (13.56 MHz) STANDARD**
- **DIGITAL TOUCHSCREEN**
- **TIMESTAMPED ACCESS LOG (AUDIT TRAIL)**
- 1 ADMIN PHONE, 49 CLIENT PHONES PER DEADBOLT
- 50 DIGITAL COMBINATIONS PER DEADBOLT
- 50 RFID CARDS / KEY FOBS PER DEADBOLT
- 10,000 AUDIT TRAIL ENTRIES
- 1 ADMIN PHONE CAN MANAGE UP TO 250 DEADBOLTS
- EMERGENCY KEY OVERRIDE
- RFID KEY FOB (OPTIONAL)
- INDIVIDUAL USER ACCESS MODE
- OPTIONAL AUTO RE-LOCKING
- DOOR JAM PROTECTOR
- SMART L / R HANDING LEARNING
- KEY / THUMB-TURN TURNING DETECTOR
- ONE-TAP LOCKING
- WEATHER RESISTANT
- BUZZER & LED INDICATORS
- ANTI-TAMPER LOCKOUT
- LOW BATTERY WARNING
- EMERGENCY CHARGE INTERFACE
- 1 YEAR ELECTRONIC WARRANTY







RFID CARD



RFID KEY FOB (optional)



KEY OVERRIDE

9V EMERGENCY BATTERY PORT



INTERIOR



BLEGW-99 (optional) Internet to Bluetooth signal converter (BRIDGE)

SPECIFICATIONS

APPLICATIONS
For residential and standard duty commercial applications.

DOOR RANGES
1 ⅜" to 1 ¾" thickness

BACKSET
Adjustable 2 ⅜" (60mm) or 2 ¾" (70mm)

LATCH FACEPLATE
2 ¼" x 1".

PROXIMITY CARD (STANDARD)
2pcs. included. Compatible with existing MIFARE Infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".

RFID KEY FOB (OPTIONAL)
Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".

POWER SUPPLY
4 AA 1.5V Alkaline Batteries (comes standard in packing).

RADIO FREQUENCY
Bluetooth radio frequency: 2.4 GHz

CYLINDER & KEYWAYS
6 pin solid brass "C" keyway standard. Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59 / 60, Corbin-Russwin L4, Sargent LA-LB-LC, Falcon / Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and Cal-Royal (HSK) High Security Cylinders.

WEATHER RESISTANT
All models are weather resistant for operating temperature ranges of +158°F to -4°F (+70°C to -20°C) and storage temperature ranges of +176°F to -22°F (+80°C to -30°C).

BLUETOOTH CONNECTIVITY
Lock can be managed / synced using the K3 (Apple) and K3+ (Android) app.

ACCESS LOG (AUDIT TRAIL)
The K3 app features a 24 / 7 activity log, so you can keep track which client accessed the lock. A timestamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.

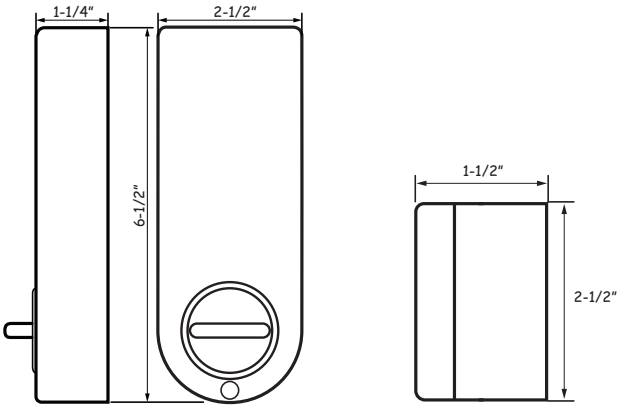
STRIKE
Deadbolt strike 1 ⅛" x 2 ¾". Optional strikes available.

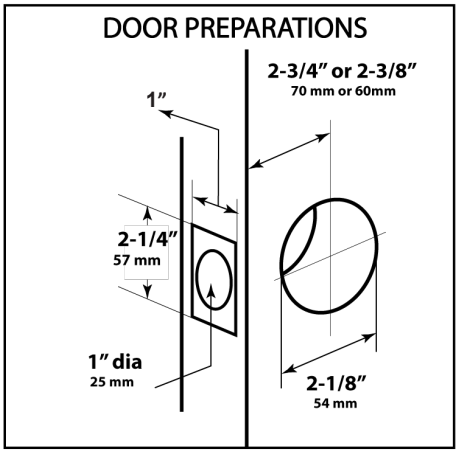
OPTIONAL GATEWAY CONNECTIVITY
Optional BLE Gateway connectivity for remote lock management.

FINISHES AVAILABLE		
BHMA SYMBOL	**US CODE**	**DESCRIPTION**
626	US26D	Satin Chrome
619	US15	Satin Nickel
613	US10B	Oil Rubbed Bronze
605	US3	Polished Brass

Refer to price list for stock finishes and functions

TECHNICAL SPECS	
Operating Voltage	4 x AA 1.5V Alkaline
Operating Temperature	+149°F to -4°F (+65°C to -20°C)
Storage Temperature	+176°F to -22°F (+80°C to -30°C)
Transmit Frequency	13.56 MHz
User ID Capacity	1 Admin + 49 Client Phones + 50 Digital Touchscreen Combinations + 50 (Cards / Key Fobs)





FEATURES

- **Apple and Android Compatible** – iPhone 4S or above with iOS 8.0 and above. Android 4.3 or above with Bluetooth Low Energy capability.
- **Gateway Connectivity** – optional gateway device to connect compatible locks to the internet, so users can manage locks remotely.
- **Bluetooth Connectivity** – lock can be managed / synced using the K3 (Apple) and K3 (Android phones without NFC), and K3+ (Android phones with NFC) app.
- **NFC (Near Field Communication) Interface** – NFC compatible for android phones. For the complete list of phones, please go to link: www.nfcworld.com/nfc-phones-list/#available
- **Admin Phone** – a lock can only have one Administrator phone at a time. Only smartphones are used as Administrator. One admin phone can manage up to 250 deadbolts.
- **Access Log (Audit Trail)** - the K3 app features a 24 / 7 activity log, so you can keep track of who accessed the lock. A timestamped access log can be shared by the Admin phone via email. 10,000 audit trail entries.
- **Smart L / R Handing Learning** – DB9000 can be installed on a left handed or right handed door. The deadbolt can automatically learn the handing of the door when this feature is set up.
- **Key / Thumb-turn Turning Detector** – when operating DB9000 mechanically (key override) or manually (turning the thumb-turn from the inside), the deadbolt detects it and the event will be registered in the access log.
- **Door Jam Protector** – if the bolt fails to retract or project, due to any obstacles (e.g. door frame is not aligned with the door), the deadbolt will detect it and will stop turning the motor after a few tries. This feature is to prevent it from over-heating which could cause permanent damage to the circuit boards.
- **Optional Auto Re-locking** – Admin has the option to set time for deadbolt to automatically re-lock, from 10-250 seconds.
- **Passage Mode** – disable auto re-locking feature for passage mode.
- **Tones and LED Indicators** – indicates the operating status of the lock accompanied by the corresponding tones / beeps.
- **Restricted Access Right** – DB9000 can be programmed to specify the access period or intervals of users.
- **Keypad Anti-Tamper Lockout** – if an invalid code is entered 3 times consecutively, the unit will alarm 10 beeps and stay idle for 1 minute.
- **Remote Switch / Release** – DB9000 provides 2 remote switches. Either can be used for an emergency push button switch, or can be connected to alarm systems IE fire alarms.
- **RFID Card (Standard)** – compatible with existing MIFARE infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".
- **RFID KEY FOB (Optional)** – compatible with existing MIFARE infrastructure. Operates at 13.56 MHz in accordance with ISO 14443A. Inductive distance up to 1 3/16".
- **Weather Resistant** – the DB9000 is designed to ensure that the internal electronic parts are protected from moisture, dust, water and corrosion. All models are weather resistant with operating temperature of +149°F to -4°F (+65°C to -20°C) and storage temperature of +176°F to -22°F (+80°C to -30°C).
- **Low Battery Warning** – when voltage is lower than safety power, DB9000 gives beep sound warning after unlocking the device.
- **Clutch Technology** – the outside lever of the DB9000 is a free-wheeling lever. If no valid code is entered, the lever will just turn freely without moving any parts inside. Thus preventing breaking or tampering.

ZWDB-10

TOUCH SCREEN ELECTRONIC DEADBOLT, MEETS ANSI GRADE 3 STANDARDS

- BUILT-IN Z-WAVE TECHNOLOGY TO CONNECT TO A Z-WAVE COMPATIBLE CONTROLLER WITH GATEWAY FREQUENCY OF 908.4 MHz
- ELECTRONIC LOCK WITH KEYLESS ACCESS
- 1 ADMINISTRATOR CODE, 4-10 DIGITS
- 30 SETS OF USER CODE, 4-10 DIGITS
- DIGITAL TOUCH SCREEN
- RANDOM PRE-ENTRY CODE TO PREVENT CODE DECIPHERING
- SERVICE CODE FOR TEMPORARY ACCESS
- ADD / DELETE USER'S CODE INDIVIDUALLY
- AUTO-LOCKING FUNCTION
- FITS REGULAR DOOR PREPARATION
- POWER EFFICIENT DESIGN AND LOW BATTERY ALARM
- 1 YEAR ELECTRONIC WARRANTY
- EMERGENCY KEY OVERRIDE
- USER FRIENDLY DESIGN
- EASY INSTALLATION & PROGRAMMING
- NON-HANDED





DIGITAL TOUCH SCREEN



INTERIOR

SPECIFICATIONS

APPLICATIONS
For Residential and Standard Duty Commercial Applications

DOOR RANGES
1 ⅜" (35mm) to 1 ¾" (45mm) Thickness

MATERIAL
Zinc Alloy and Steel

BACKSET
2 ⅜" (60mm) or 2 ¾" (70mm) 2-Way Adjustable Backset

LATCH FACEPLATE
1" (25.4mm) x 2 ¼" (57mm) Square Corner

STRIKE
1" (25.4mm) x 2 ¼" (57mm) Square Corner Strike

DEADBOLT
1" Throw High-Strength Deadbolt with Anti-Saw Pin

POWER SUPPLY
4 AA 1.5V Alkaline Batteries (comes standard in packing)

DOOR PREPARATION
1" (25.4mm) Diameter for Edge Bore
2 ⅛" (54mm) Cross Bore

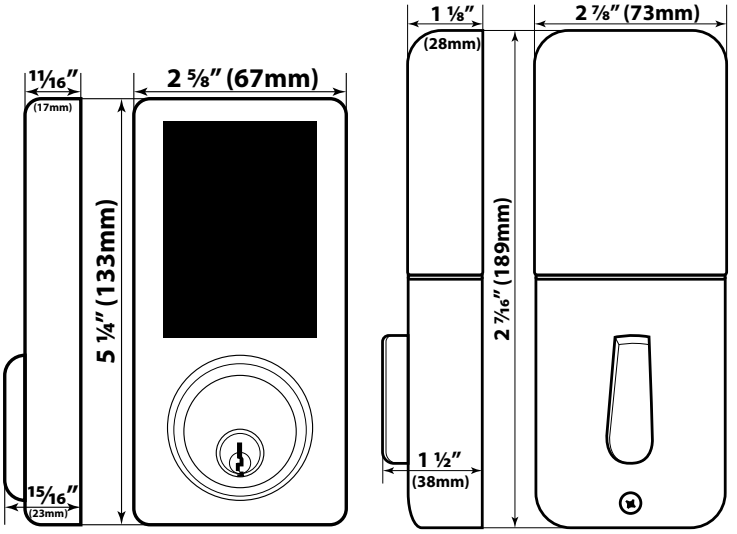
DIMENSIONS
Exterior Trim: 5 ¼" (133mm) x 2 5/8" (67mm) x 11/16" (23mm)
Interior Trim: 7 7/16" (189mm) x 2 7/8" (73mm) x 1 ⅛" (28mm)

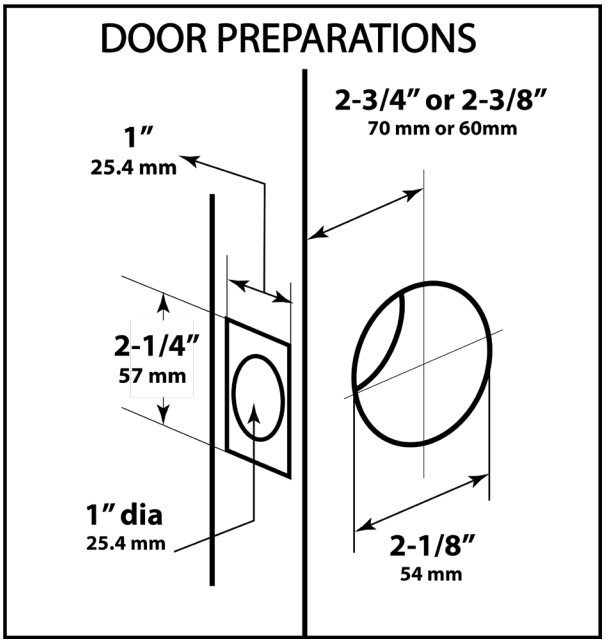
CYLINDER & KEYWAYS
5-Pin, Kwikset KW1 Keyway.

FINISHES
US3 - Bright Brass
US15 - Satin Nickel
US26 - Bright Chrome
US26D - Satin Chrome
US12P - Tuscany Bronze

FINISHES AVAILABLE		
BHMA SYMBOL	US CODE	DESCRIPTION
605	US3	Bright Brass
619	US15	Satin Nickel
625	US26	Bright Chrome
626	US26D	Satin Chrome
---	US12P	Tuscany Bronze

Refer to price list for stock finishes and functions





• FEATURES

- **Administrator Code** – 1 group administrator password, 4-10 digits. It is used for managing all codes. Add / delete user's code individually.
- **User Codes** – this feature only opens the lock by entering the code on the touchpad. It can accommodate up to 30 sets of passcode, 4-10 digits.
- **Pre-Entry Codes** – random pre-entry code prevents deciphering of user code. It is also useful to remove remaining fingerprint smudges and prevent exposure of password.
- **Disposable Code** – one-time user code is available for temporary access.
- **Touch screen panel** – this feature helps ease of operating in the dark. It is useful in making sure that every key pressed is successfully entered by an accompanying beep / tone.
- **Auto-Locking Function** – when the door is unlocked, it automatically locks within just a few seconds for security and convenience.
- **Low Battery Warning** – when voltage is lower than safety power, the low battery indicator will turn on until the low battery alarm goes off, then you have to change the batteries.
- **User Friendly Design** – simplifies your access management.
- **Z-Wave Technology** – it has a built-in 500 Series Z-WAVE module to connect with compatible controller / hub with gateway frequency of 908.4 MHz. By using an existing controller, you could use app and / or mobile phone to manage all compatible devices such as control lights, security systems, and home automation in one tap.
- **High-Strength Deadbolt** – 1" throw high-strength deadbolt with anti-saw pin.
- **Deadbolt Detection** – touchpad deadbolt with auto latch bolt locking detection prevents any incomplete door locking.
- **Non-Handed** – ZWDB-10 Series can be installed for both left and right door opening.

TECHNICAL SPECS	
Operating Voltage	DC6V, 4x AA (1.5V, LR6) Alkaline
Operating Temperature	0°C to 70°C (Battery Excluded)
Operating Humidity	30% to 90% Relative Humidity; Non-Condensing
User ID Capacity	4-10 Digits 1 Admin Password 30 Sets of User Code

NM300 Series

ELECTRIFIED MORTISE LOCKS

Available with or without deadbolt

FEATURES:

- UL and CUL Listings
- Continuous duty solenoids for cooler operation during "continuously on" applications
- Low current draw
- Numerous switch options
- 3 year "No Hassle" warranty

HOW TO ORDER ELECTRIFIED NM300 SERIES

- Use **NM Models** if ordered as an **ELECTRIFIED LOCK CASE ONLY**.
- Use **ENM Models** if ordered as a complete lock **with ADD-ON list price**.

Must Specify: NM Series item # and Electrification Option (refer to table below) separately.

For Example: NM8080SSRH US26D with ENM300 (EL 12V) option,
Order: NM8080SSRH US26D and **ENM300-RH as two line items.**

OPTIONS:

- Voltage requirement -12V DC or 24V DC
- Amperage - 300mA @ 12V or 130mA @ 24V
- Solenoid coil resistance - 12V = 39.4 Ω or 24V = 173 Ω
- Power consumption - 3.65W @ 12V or 3.3W @ 24V
- Function – available Fail Safe, "Electrically Locked" (**EL**) or Fail Secure, "Electrically Unlocked" (**EU**)

► **HANDING: Non-Reversible. Must specify Left Hand (LH) or Right Hand (RH) when ordering**.

REFER TO PRICELIST FOR STOCK FINISHES AND FUNCTIONS

► **RX** – Request to Exit Switch (Monitors the inside handle)

► **LBM** – Latch Bolt Monitoring Switch (Monitors the position of latch bolt)

► **DPS** – Door Position Switch (*Sold Separately. Not installed on the lock.)

ELECTRIFICATION OPTIONS (WITHOUT DEADBOLT)							ELECTRIFIED LOCK CASE ONLY
MODEL #	EL	EU	12	24	RX	LBM	MODEL #
ENM300	✓		✓				NM300
ENM301	✓		✓		✓		NM301
ENM302	✓		✓			✓	NM302
ENM303	✓		✓		✓	✓	NM303
ENM304	✓			✓			NM304
ENM305	✓			✓	✓		NM305
ENM306	✓			✓		✓	NM306
ENM307	✓			✓	✓	✓	NM307
ENM308		✓	✓				NM308
ENM309		✓	✓		✓		NM309
ENM310		✓	✓			✓	NM310
ENM311		✓	✓		✓	✓	NM311
ENM312		✓		✓			NM312
ENM313		✓		✓	✓		NM313
ENM314		✓		✓		✓	NM314
ENM315		✓		✓	✓	✓	NM315

ELECTRIFICATION OPTIONS (WITH DEADBOLT)							ELECTRIFIED LOCK CASE ONLY
MODEL #	EL	EU	12	24	RX	LBM	MODEL #
ENM316	✓		✓				NM316
ENM317	✓		✓		✓		NM317
ENM318	✓		✓			✓	NM318
ENM319	✓		✓		✓	✓	NM319
ENM320	✓			✓			NM320
ENM321	✓			✓	✓		NM321
ENM322	✓			✓		✓	NM322
ENM323	✓			✓	✓	✓	NM323
ENM324		✓	✓				NM324
ENM325		✓	✓		✓		NM325
ENM326		✓	✓			✓	NM326
ENM327		✓	✓		✓	✓	NM327
ENM328		✓		✓			NM328
ENM329		✓		✓	✓		NM329
ENM330		✓		✓		✓	NM330
ENM331		✓		✓	✓	✓	NM331

► ***Electrified Mortise Lock Case can be purchased separately. Refer to table above for options***

SC400 Series

RETROFITS SCHLAGE L9000
(direct chassis replacement)

ELECTRIFIED MORTISE LOCKS

Available with or without deadbolt

FEATURES:

- UL and CUL Listings
- Continuous duty solenoids for cooler operation during "continuously on" applications
- Allows for an AC or DC power source through an appropriate power supply. No polarity.
- Low current draw
- Numerous switch options
- 3 year "No Hassle" warranty

OPTIONS:

- Voltage requirement -12V AC / DC or 24V AC / DC
- Amperage - 600mA ±10% @ 12V or 300mA ±10% @ 24V
- Solenoid coil resistance - 12V = 20 Ω ±5% or 24V = 80 Ω ±5%
- Power consumption - 7.2 watts ±10%
- Function – available Fail Safe, "Electrically Locked" (**EL**) or Fail Secure, "Electrically Unlocked" (**EU**)

HOW TO ORDER ELECTRIFIED SC400 SERIES

- Use **SC Models** if ordered as an **ELECTRIFIED LOCK CASE ONLY**.
- Use **ESC Models** if ordered as a complete lock **with ADD-ON list price**.

Must Specify: SC Series item # and Electrification Option (refer to table below) separately.

For Example: SC8080SS US26D with ESC400 (EL 12V) option,
Order: SC8080SS US26D and **ESC400 as two line items.**

► **RX** – Request to Exit Switch (Monitors the inside handle)

► **LBM** – Latch Bolt Monitoring Switch (Monitors the position of latch bolt)

► **DPS** – Door Position Switch
(*Sold Separately. Not installed on the lock.)

REFER TO PRICELIST FOR STOCK FINISHES AND FUNCTIONS

ELECTRIFICATION OPTIONS (WITHOUT DEADBOLT)							ELECTRIFIED LOCK CASE ONLY
MODEL #	EL	EU	12	24	RX	LBM	MODEL #
ESC400	✓		✓				SC400
ESC400-RX	✓		✓		✓		SC400-RX
ESC400-LBM	✓		✓			✓	SC400-LBM
ESC400-RXLBM	✓		✓		✓	✓	SC400-RXLBM
ESC404	✓			✓			SC404
ESC404-RX	✓			✓	✓		SC404-RX
ESC404-LBM	✓			✓		✓	SC404-LBM
ESC404-RXLBM	✓			✓	✓	✓	SC404-RXLBM
ESC408		✓	✓				SC408
ESC408-RX		✓	✓		✓		SC408-RX
ESC408-LBM		✓	✓			✓	SC408-LBM
ESC408-RXLBM		✓	✓		✓	✓	SC408-RXLBM
ESC412		✓		✓			SC412
ESC412-RX		✓		✓	✓		SC412-RX
ESC412-LBM		✓		✓		✓	SC412-LBM
ESC412-RXLBM		✓		✓	✓	✓	SC412-RXLBM

ELECTRIFICATION OPTIONS (WITH DEADBOLT)							ELECTRIFIED LOCK CASE ONLY
MODEL #	EL	EU	12	24	RX	LBM	MODEL #
ESC416	✓		✓				SC416
ESC416-RX	✓		✓		✓		SC416-RX
ESC416-LBM	✓		✓			✓	SC416-LBM
ESC416-RXLBM	✓		✓		✓	✓	SC416-RXLBM
ESC420	✓			✓			SC420
ESC420-RX	✓			✓	✓		SC420-RX
ESC420-LBM	✓			✓		✓	SC420-LBM
ESC420-RXLBM	✓			✓	✓	✓	SC420-RXLBM
ESC424		✓	✓				SC424
ESC424-RX		✓	✓		✓		SC424-RX
ESC424-LBM		✓	✓			✓	SC424-LBM
ESC424-RXLBM		✓	✓		✓	✓	SC424-RXLBM
ESC428		✓		✓			SC428
ESC428-RX		✓		✓	✓		SC428-RX
ESC428-LBM		✓		✓		✓	SC428-LBM
ESC428-RXLBM		✓		✓	✓	✓	SC428-RXLBM

► ***Electrified Mortise Lock Case can be purchased separately. Refer to table above for options***

GENESYS SERIES

Electrified Cylindrical Lock

Available on Storeroom Only

FEATURES:

- UL Listed
- Continuous duty solenoids for cooler operation during "continuously ON" applications
- Standard plug-in rectifier allows for an AC / DC power source
- Low current draw
- 3 year "No Hassle" warranty

OPTIONS:

- Voltage requirement - 12V or 24V (AC / DC)
- Amperage – 250mA @ 12V or 150mA @ 24V
- Solenoid coil resistance - 12V = 49 Ω or 24V = 159 Ω
- Power consumption - 3 watts
- Function – available "Fail Safe" (**SAF**) or "Fail Secure" (**SEC**)

HOW TO ORDER ELECTRIFIED

E - CGN05 - 12 - SAF - US26D

PREFIX "E" for Electrified
LEVER DESIGN (CGN)
LOCK FUNCTION (Storeroom)
VOLTAGE REQUIREMENT (12V)
FUNCTION (Fail Safe)
FINISH (Satin Chrome)

TO ORDER:

- Prefix "**E**" before part #.
- Must specify the following when ordering:
  - a. lever design: CGN, CAT, CSPA, CTUB, CAUG, CDAN, CLON, or CTAC
  - b. lock function: 05 (Storeroom ONLY)
  - b. voltage: 12V or 24V
  - c. function: "**SAF**" (fail safe) or "**SEC**" (fail secure)
  - d. finish: see pricelist for stock finishes

Example: CGN05 US26D, 12V fail safe,
Order: "ECGN0512SAF US26D"



Available on all Genesys Series lever designs



GN DESIGN



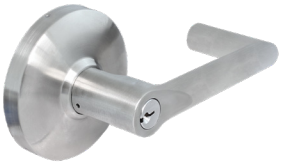
AT DESIGN



SPA DESIGN



TUB DESIGN



AUG DESIGN



DAN DESIGN



TAC DESIGN



LON DESIGN

(**IC**) Indicates function available with **Best, Falcon, and Arrow** Interchangeable Core.
(**ICSC**) Indicates function available with **Schlage Full Size** Interchangeable Core.
(**SARIC**) Indicates function available with **Sargent Full Size** Interchangeable Core.
(RUSIC) Indicates function available with **Corbin / Russwin Full Size** Interchangeable Core.
(**YALIC**) Indicates function available with **Yale Full Size** Interchangeable Core.

*****Note: YALE LFIC only available in GN, AT, SPA lever designs***

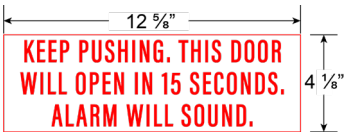
GRADE 1 Delayed Egress All in One Exit Device
ANSI BHMA A156.24 Delayed Egress Locking System Approved

BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark.

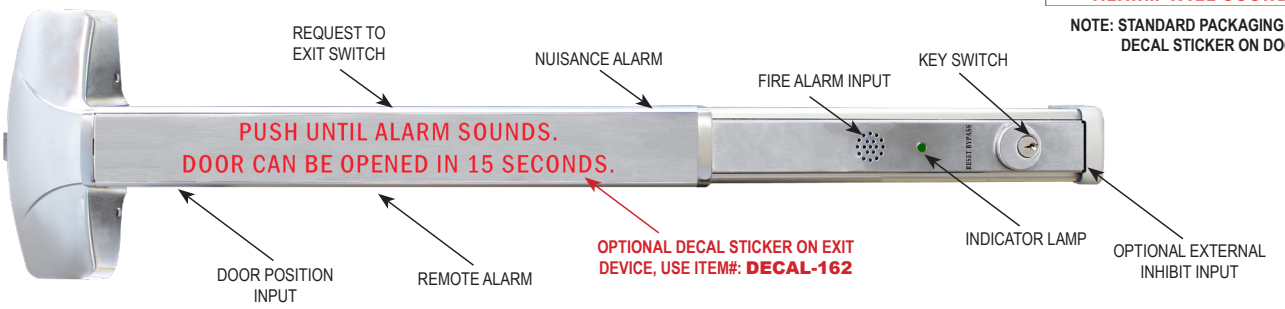
MEETS The Buy American Act

c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997

5-YEAR WARRANTY



NOTE: STANDARD PACKAGING INCLUDES DECAL STICKER ON DOOR.



FEATURES

EGRESS DELAY

- All in One Device
- 15 or 30 second exit delay (Factory set to 15 secs)
- 1 or 2 second nuisance delay
- Alarm and Lock reset
- 1 to 30 second momentary bypass
- Sustained bypass

BULIT-IN ANNUNCIATION

- Armed mode
- Nuisance mode
- Irreversible egress mode
- Release mode

Optional External Inhibit Input

- Remote override
- Remote reset

CODE COMPLIANCE

- IFC International Fire Code
- IBC International Building Code
- NFPA 101 Life Safety Code
- NFPA 1 Uniform Fire Code
- California Building Code
- Field selectable automatic or manual power up after emergency release or power loss

CONTROL INPUTS

- 1 to 30 second request-to-exit and bypass input with anti-tailgate and jumper selectable door prop alarm
- Reset

TRIGGER MODES

- Egress Alarm triggered by Push Bar
- Trigger input from external device field selectable (N/O or N/C)

MONITORING OUTPUTS

- Armed mode
- Nuisance mode
- Release status

MUST ORDER CR602RF or CR631RF POWER SUPPLY TO HONOR WARRANTY AND UL MARKING

APPLICATION

When unauthorized egress is initiated the device delays egress through the door for 15 seconds (or 30 seconds). Meanwhile, the person exiting must wait while personnel or security responds. The door unlocks after 15 seconds have elapsed permitting egress. When powered by a fire control supervised power supply, the lock will release immediately in an emergency.

FOR USE WITH: (FIRE AND NON-FIRE)

- A7700, AF7700 Rim Exit Devices
- A7760V, AF7760V Surface Vertical Rod Exit Device[1]
- MCVR7700, FMCVR7700 Concealed Vertical Rod (metal doors)
- WCVR7700, FWCVR7700 Concealed Vertical Rod (wood doors)
- MR7700, FMR7700 Mortise Lock Rim Exit Device
- GLS7700 Narrow Stile Rim Exit Device (on 36" Only)
- GLSCVR7700, FGLSCVR7700 Narrow Stile Concealed Vertical Rod (on 36" Only)

[1]*Recommends use of rod and latch guards and strike monitor for surface vertical rods*

TECHNICAL SPECIFICATIONS

- 24V DC @ 430mA
- 24V DC @ 250mA Slave

Power Supply CR602RF 1 Amp / CR631RF 1.5 Amp



CR631RF



CR602RF

- Field selectable 12 or 24V DC, regulated and filtered
- Auto resetting output circuit protection
- Isolated 13.5 / 27V DC battery charger
- Low battery disconnect
- Emergency release input
- Field selectable UBC & California compliant manual power up
- Input, output and battery status LED's
- CR631RF - 16" x 14" x 6.5", CR602RF - 12" x 12" x 4" enclosure
- Choice of output and door control modules
- CR631RF - 1.5 Amp, CR602RF - 1.0 Amp
- Batteries not included

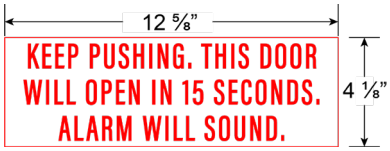
7700 Series Delayed Egress Models

GRADE 1 Delayed Egress All in One Exit Device

ANSI / BHMA A156.24 Delayed Egress Locking System Approved

For use in institutions, schools, universities, commercial buildings where heavy duty reliable operation is a requirement. 7700 Series Delayed Egress can also be used for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3 hour fire labeled installations, it conforms to standards UL10C and UBC 7-2-1997 codes.

BHMA CERTIFIED Be Safe. Be Secure. Look for the Mark. | MEETS The Buy American Act | c UL us 3 HOUR FIRE RATED UL10C, UBC7-2-1997 | 5-YEAR WARRANTY



NOTE: STANDARD PACKAGING INCLUDES DECAL STICKER ON DOOR.



A7700, AF7700 Rim Panic Exit Devices



MR7700, FMR7700 Mortise Exit Devices

If a door position switch is not used, the outside trim will operate the door without affecting the armed setting of the device.

A7760V, AF7760V
Surface Vertical Rod Exit Devices

To effectively use the surface vertical rod exit device, it is recommended that the rod and latch guards and monitor strike be used.



MCVR7700, FMCVR7700 (metal doors)
WCVR7700, FWCVR7700 (wood doors)
Concealed Vertical Rod Exit Devices



GLS7700 Narrow Stile Rim Exit Devices (36" ONLY)



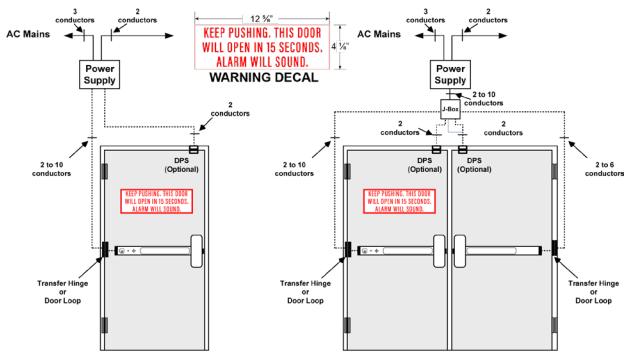
GLSCVR7700, FGLSCVR7700 (36" ONLY)
Narrow Stile Concealed Vertical Rod Exit Devices



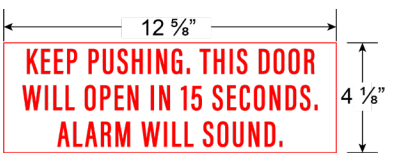
*Optional Decal sticker for the Exit Device, specify item# "**DECAL-162**" when ordering.

DELAYED EGRESS OPTION IS AVAILABLE ON ALL 7700 SERIES EXIT DEVICES
(GLS7700 & GLSCVR7700 Narrow Stile Exit Devices on 36" Only. Must use DEKIT48.)

♦♦ NOTE: DEKIT IS INSTALLED ON THE EXIT DEVICE UPON ORDERING. ♦♦
Must Specify: 7700 Series ITEM # and DEKIT36 (for 36") or DEKIT48 (for 48") separately.
for Example: A7700EO36 US32D with Delayed Egress option,
ORDER: "**A7700EO36 US32D**" and "**DEKIT36 US32D**" as **two line items**.



Single Door | Pair of Doors



NOTE: STANDARD PACKAGING INCLUDES DECAL STICKER ON DOOR.

MUST ORDER CR602RF OR CR631RF POWER SUPPLY TO HONOR WARRANTY AND UL MARKING

Cal-Royal's electrified lever trim provides remote locking and unlocking capabilities using industry safety standards. The solenoid can be energized from a distant controller, thus allowing access control of the opening.

The control of stairwells in high-rise buildings is a common application for this trim, where electric pullback of the exit device's latch bolt is cost prohibitive or not required. This is especially practical in applications where fire/life safety codes require a "fail-safe" condition which is not an option with electrified latch pullback devices. Because the current draw is quite low there is no need for a more expensive power supply to provide the surge current.

Features
- Continuous duty solenoids used to insure trouble-free operation
- Internally mounted solenoid to ease installation (no special door prep required)
- No hassle 3-year warranty

Options
- Available Fail Safe (Electrically Locked) or Fail Secure (Electrically Unlocked)
- Voltage options – 12V or 24V (AC / DC)
- Request to Enter Switch (REE) available
- CRU2 – Current Reduction Unit to improve solenoid life in "continuously on" applications

Specifications
Solenoid..... Continuous Duty

Operating Voltage.... 12 or 24V AC / DC ± 10%
(must specify 12 or 24 volts when ordering)

Amperage.....250mA @ 12V or 150mA @ 24V

Coil Resistance.....12V = 49Ω or 24V = 159Ω

To order, Specify:

OPTIONS: FAIL SAFE (**FS**)
FAIL SECURE (**FSE**)

ITEM#	DESCRIPTION
FS12	FS12 FAIL-SAFE OPTION 12V AC/DC
FS24	FS24 FAIL-SAFE OPTION 24V AC/DC
FSE12	FSE12 FAIL-SECURE OPTION 12V AC/DC
FSE24	FSE24 FAIL-SECURE OPTION 24V AC/DC

Lever Trim Designs


ESC22


NESC


RLESC


ATESC


HDESC


TUBESC


HDTSESC


HDRLESC

Anti-Microbial Coating available in US26D or US32D Only. Use part # "**ANTB-TRIM**" when ordering.

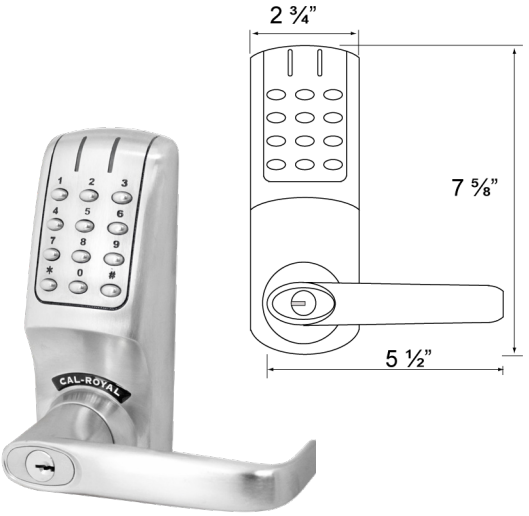
TO ORDER other design add "**ESC22**", "**ESC77**", "**ATESC77**", "**RLESC77**", "**TUBESC77**", "**NESC98**", "**ATESC98**", "**RLESC98**", "**TUBESC98**" to ITEM#
e.g. FSE24**ATESC77** for ESC77 in AT design or FSE24**RLESC77** for ESC77 in RL design

TO ORDER heavy duty design add **HD, TS, or RL** to Item # e.g. FS12**HD** or FS12**TS** or FS12**RL**

ELECTRONIC CRCODE007

Features

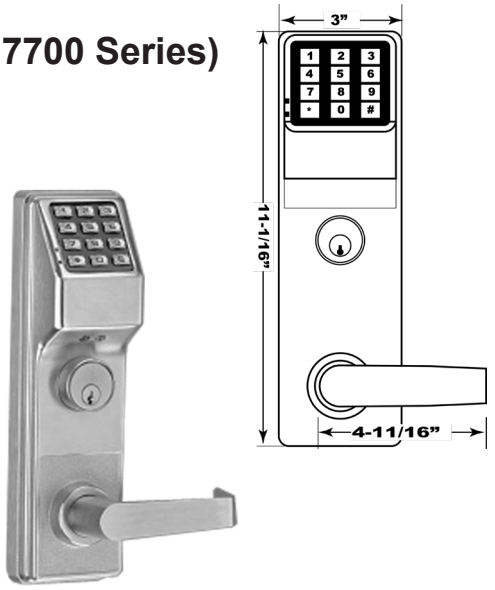
- Dual mode for code free entry either mechanically by key or electronically thru the keypad
- Designed for 6600, 7700 and 9800 Series Rim Exit Devices
- Can store up to 90 different numeric user codes in 4, 5 or 6 digits
- Settings remain in memory when batteries are removed
- Audible alarm sounds after 3 incorrect attempts
- Connections available for remote release switch and automatic lock activation when linked to Fire alarm system
- Can be used as STOREROOM or CLASSROOM function
- Factory default set as STOREROOM function
- Fast and easy programming via master code



CR4000 (for 9800 Series) and CR5000 (for 6600 & 7700 Series) TRILOGY® KEYLESS EXIT TRIM

Features

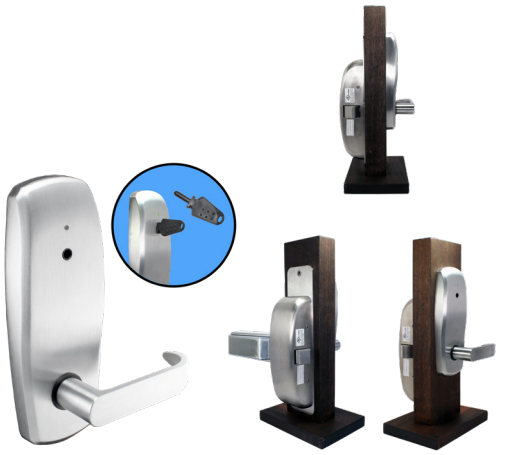
- Clutch mechanism insures long life and durability
- Fingertip and / or Windows Programmable
- 2000 User Codes: Master, manager, supervisor and users
- Real Time Clock for up to 40,000 Event Time / Date-Stamped Audit Trail
- Up to 500 Lock / Unlock Schedules (with Time Zone Support)
- Rugged 12-Button Metal Keypad
- Non-Handed; Fully Field Reversible
- Adaptable to most major manufacturers of standard RIM and IC RIM Cylinders
- Battery operated; uses 5 AA batteries
- Optional Interchangeable Core available with Best, Falcon & Arrow



KABA® - Cal-Royal Combination

Cal-Royal's Exit hardware devices combined with **Kaba InSync CP** provide a variety of alternatives when addressing community access control. Recommended for applications such as controlling building entry openings, common area rooms and doors with exit devices. **InSync CP** are available as stand-alone battery operated door locks designed to work in conjunction with ***Cal-Royal's Exit Hardware Devices.***

KABA InSync CP is not sold through CAL-ROYAL.
For inquiries and information on InSync line of products,
please visit ***www.kabamultihousing.com***



The CRPS1N is a heavy duty, high quality, low cost solution for powering a single latch retracting exit device. The solid-state design insures years of trouble-free operation. The power supply delivers raw, unregulated DC current which is ideal for the extreme in-rush requirement of most solenoid driven electric latch retracting exit devices. The power supply comes housed in a sturdy, yet compact metal enclosure.

CRPS1N



Features:

- Power supply delivers the necessary high current in-rush for a single exit device
- Solid-state design eliminates problems associated with mechanical relays
- Single input/output
- No hassle 3-year warranty

Specifications:

- Input voltage – 120V AC, 60 Hz
- Output voltage – 24V DC unregulated @ 1A
- Temperature range: 0 to 49° C; 32 to 120° F
- Maximum humidity: 85%
- 1 Solid-State input / output (input triggered by dry contact)
- LEDs – RED = Power indicator
  GREEN = Channel indicator
- ***Enclosure dimensions: 11" x 11" x 4"***

The CRPS2 Series power supplies are high quality, cost effective solution for powering two electric latch-retracting exit devices. These power supplies provide the necessary surge current that most latch-retracting exit devices require. The CRPS2 Series offers features found on power supplies costing much more; and the solid-state design and careful attention to detail make the CRPS2 Series ideal choice for the discerning user who requires a power supply that can offer years of trouble-free operation.



CRPS2
CRPS2BB

Features:

- Delivers the necessary in-rush current to power two latch pullback exit devices.
- Two independent inputs / outputs
- Solid-state design eliminates problems associated with mechanical relays
- Thermal overload sensing reduces risk of failure due to overheating
- Fire alarm disconnect link
- Intelligent short circuit detection detects shorts much faster than fuses and isolates the short to the individual output
- Removable Euro-style terminal blocks allow for easy installation
- No hassle 3-year warranty

Additional Features (CRPS2BB Only):

- Efficient battery backup / charging circuitry with zero voltage drop at power loss
- Solid state reverse polarity protection for battery connections
- Audible alert when sensing AC power failure & low battery (batteries not included)

Specifications:

- Input Voltage – 120V AC, 60 Hz
- Output Voltage – 24V DC regulated @ 2A
- Temperature Range – 0° to 120°F
- 2 Solid-State input / output (input triggered by dry contact)
- Power Tap - Continuous 24V DC @ .5A
- LEDs – RED = Power indicator
  GREEN = Output indicator
  ORANGE = Battery Output Indicator

- ***CRPS2 Enclosure dimensions: 11" x 11" x 4"***
- ***CRPS2BB Enclosure dimensions: 13" x 15.5" x 5"***

The CRPS202 and CRPS202B (Battery Backup) are regulated, linear power supplies rated at 2 Amps continuous and are specifically designed to power electrified mortise and cylindrical locks, electric strikes, mag locks, and motorized exit devices.



CRPS202
CRPS202B

Features:

- Built to run up to 2 locks, exit trim and LP Motor Kits
- Interruption-free battery back-up
- Door mounted LED Power Indicator
- Over-voltage protection
- Regulated, independent battery charging
- Automatic uninterrupted backup circuit
- Fire alarm link
- No hassle 3-year warranty

Specifications:

- Input voltage – 120V AC, 60 Hz
- Output voltage – 24V DC regulated @ 2A
- Temperature range: 0 to 49° C; 32 to 120° F
- Maximum humidity: 85%
- 2 Solid-State input / output (input triggered by dry contact)
- LEDs – RED = Power indicator
  GREEN = Output indicator
  ORANGE = Battery Output Indicator

- ***CRPS202 Enclosure dimensions: 11" x 11" x 4"***
- ***CRPS202B Enclosure dimensions: 13" x 15.5" x 5"***

The CRSW3 power supply is a low cost, regulated switching power supply. It is designed specifically to supply power to low current DC devices such as mortise locks, cylindrical locks and electric strikes. The CRSW3 supplies 2.4A @ 27V DC and provides (3) non-fused outputs. The CRSW3 comes housed in a 10" x 10" x 4" sturdy metal enclosure.

CRSW3



Features:
- Adjustable output voltage from 24-27VDC
- No hassle 3-year warranty

Specifications:
- Input voltage – 110 / 220V AC
- Output voltage – 2.4A @ 27V DC
- (3) Non-fused outputs
- ***Enclosure dimensions: 10" x 10" x 4"***

The CRPS5 power supply is a regulated, linear power supply rated at 5 Amps @ 24V DC.Its state-of-the-art, solid-state design offers a flexible and cost effective solution to powering and controlling low current DC locking devices. It is available in 4, 6, and 8 I/O models.



CRPS5
(5 Amps, 1 I/O)

Features:
- Adjustable output voltage from 24-27V DC
- Independent, Battery backup charging circuit at 27.6V with Solid-state design and very low voltage loss
- No hassle 3-year warranty

OPTIONS:
CRPS5-4 (1.25 Amps, 4 I/O)
CRPS5-6 (0.83 Amps, 6 I/O)
CRPS5-8 (0.625 Amps, 8 I/O)

Specifications:
- Input voltage - 110V AC
- Output voltage - 24V DC @ 5A continuous current
- Up to (8) Solid-state inputs (specify dry contact or voltage trigger)
- Up to (8) Solid-state outputs
- Thermal auto-resettable fuses

The CRPS440B and CRPS480B (Battery Backup) are regulated, linear power supplies rated at 4 Amps @ 24V DC to (4) or (8) PTC fused outputs. It also provides (4) or (8) solid-state input triggers, protects system relays from shorts, grounds and surges. These power supplies may also be used to power electrified mortise and cylindrical locks, electric strikes, mag locks, motorized exit devices.



CRPS440B
CRPS480B

Features:
- Built to run up to 4 or 8 locks, exit trim and LP Motor Kits
- Interruption-free battery back-up
- Door mounted LED Power Indicator
- Over-voltage protection
- Regulated, independent battery charging
- Fire alarm link
- No hassle 3-year warranty
- ***Enclosure dimensions: 13" x 15.5" x 5"***

Specifications:
- Input voltage – 120V AC, 60 Hz
- Output voltage – 4A @ 24V DC
- Temperature range: 0 to 49° C; 32 to 120° F
- Maximum humidity: 85%
- **CRPS404B**: 4 Solid-State input / output (input triggered by dry contact)
- **CRPS480B**: 8 Solid-State State input / output (input triggered by dry contact)
- LEDs – RED = Power indicator
  GREEN = Output indicator
  ORANGE = Battery Output Indicator

Electrical Latch Retraction

Our electrified latch pullback exit device allows for remote keyless access control in high occupancy / high traffic conditions where exit devices are required. Common applications include conditions such as hospitals, airports, schools, churches and they are commonly specified in applications that require automatic door openers. The device may be continuously energized allowing for a push / pull condition if desired.

Features:

- Available in 7700 / 9800 / 2200 Series, including rim, vertical rod, concealed vertical rod, mortise exit device, fire and non fire-rated devices
- MM4 (9800 / 2200) or MM4S (7700) Smart Module: On board diagnostics with audible feedback for adjustment and power issues
- "PTS" (Push to Set Technology): 5 second electronic adjustment for easy post installation adjustment
- Electric dogging rated for continuous duty - Auto retraction if dogged push pad is pulled from position
- Low Current Draw - Field switchable to "High Torque" mode
- Up to 300' wire run with (2) 18ga wire - Long wire runs provides installer with convenience of placing the locking device power supply in a centralized location; i.e. the same closet as the access panel
- 8' cable with Quick Connect for MM4 / MM4S module to easily connect to power supply lead
- 3-year "No Hassle" warranty

Specifications:

- Voltage – 22 to 28V DC
- System protection – unit shutdown when voltage exceeds 28V DC
- Average In-rush Current – 900mA; Average Hold Current - 215mA
- PTS adjustment – approx. ¼"
- Wire run: 300' with 18ga wire

MUST USE CRP POWER SUPPLIES TO HONOR WARRANTY

INSTALLED ON THE EXIT DEVICE
USE **FLR7700 ADD** (FOR 7700 SERIES),
FLR2298 ADD (FOR 9800 / 2200 SERIES)

FOR FIELD INSTALLATION
USE **FLR7700 KIT** (FOR 7700 SERIES),
FLR2298 KIT (FOR 9800 / 2200 SERIES)

To Order:

- **Must Specify: Exit Device item #** and **FLR7700 ADD (for 7700 Series) or FLR2298 ADD (for 9800 / 2200 Series)** as two separate line items. For Example: A7700EO36 US32D with ELR option, order "**A7700EO36 US32D", and "FLR7700 ADD"** as two line items.
- ***Use FLR7700 KIT (for 7700 Series) or FLR2298 KIT (for 9800 / 2200 Series) if ordered separately.***
- **Optional Switch** (RX or LX) is also available and should be added as a **3rd line item** as needed.

FLR2298 KIT (for 9800 & 2200 Series) & FLR7700 KIT (for 7700 Series)

MOTOR DRIVEN · PTS · 3 YEAR WARRANTY · UL



FLR2298 KIT



FLR7700 KIT

FEATURES

- Fast quiet and smooth operation
- Low surge current draw
- MM4 / MM4S module is compatible with most 24V DC, 1A (or greater) regulated power supplies
- Electronic dogging
- If push pad is pulled from opening position, MM4 / MM4S will re-set itself and pull back the latch without fail
- Push to set (PTS) electronic adjustment for latchbolt travel
- On-board self diagnostics for fast, easy troubleshooting at the opening
- 8' cable with quick connect for MM4 / MM4S module
- Up to 300' wire run with 2-18GA wire to power supply, saves cost
- 3-Year "No Hassle" Warranty issues reliability to the owner

Tested to 2,000,000 Cycles

Complete accessory kit to convert 36" & 48" devices. Door is secure without power. Door is unlatched electronically. Latchbolt retracted by pushpad inside or electronically by adding power.

SPECIFICATIONS

- ♦ Operating Voltage Range - 22 to 28V DC
- ♦ System Protection - Unit shutdown when voltage exceeds 28V DC
- ♦ Standard - Average Current Peak - 900mA; Average Current Hold - 215mA
- ♦ High Torque - Average Current Peak - 2A; Average Current Hold - 250mA

WIRE RUN

- ♦ 300' with 18ga wire

OPTIONS

REX - Request to Exit switch available factory installed

VDREXKIT-ED - Field Installable Request to Exit kit available

LBM - Latch Bolt Monitor switch available factory installed

Power Supplies - PS1 for single door or two door simultaneous operation, PS2 / PS2BB for up to two independently operated doors, PS5 Series for up to eight independently operated doors or most 1A or greater regulated power supplies.

Signal Switch RX and LX

RX (request to exit) signal switch is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the touch bar.

LX (latch bolt monitoring) signal switch monitors both egress and access of an opening. When the latch bolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the latch bolt position.

LX and **RX** switches can be combined.

LX, RX switches can be used in combination with ELR (electric latch retraction) option.

Specifications

RX or **LX**.....Switch rated 0.5 amps @ 24V AC / DC resistive
Low current **RX** or **LX**.Switch rated 0.5 amps @ 24V AC / DC resistive

for Factory Installed. To Order, Specify: **Prefix "RX", "LX" or "LXRX"** before 7700 / 9800 / 2200 when ordering.

RX.....Request to Exit switch for field installation
LX.....Latch bolt Monitoring switch for field installation
LXRX.....Latch bolt Monitoring / Request to Exit Combination

for example: Use **RX**7700 to order RX Switch for 7700 Series Exit Devices

RX9800-M & RX7700-M

REQUEST TO EXIT SWITCH KIT FOR FLR2298 KIT, FLR7700 KIT

FEATURES

- **APPLICABLE FOR 7700, 9800 AND 2200 SERIES EXIT DEVICES**
- **RX (REQUEST TO EXIT) SIGNAL SWITCH FEATURE IS USED TO SIGNAL THE USE OF AN OPENING FROM THE PUSH SIDE**
- **WHEN THE PUSH PAD IS DEPRESSED, THE SWITCH IS ACTIVATED**
- **THESE DEVICES ARE EQUIPPED WITH AN INTERNAL SPDT (SINGLE PULL, DOUBLE THROW) SWITCH THAT MONITORS THE TOUCH BAR**
- **FIELD INSTALL**



SPECIFICATIONS

- Rating - 5A @ 120V AC
- Configuration - Green - Common (C)
  Blue - Normally Open (NO)
  Gray - Normally Closed (NC)

KIT INCLUDES

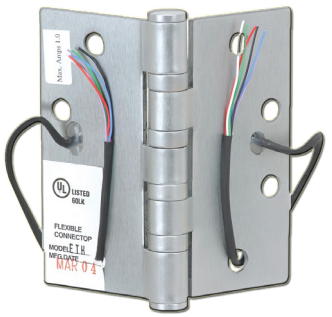
- 1 - Rex Sticker
- 2 - Phillips Head Screws
- 2 - Washers
- 1 - Cable Tie Mount
- 1 - REX Switch with 4' Lead
- 1- Cable Tie

ELECTRIFIED HINGES

FEATURES

- The Electrified Hinge makes door wiring easy, safe and reliable
- Power can now be transferred from the frame into the door either concealed or exposed
- We are now able to monitor the position of the door, transfer power and incorporate both functions into a single hinge
- We now have the ability to electrify other hardware items such as Exit Devices, and Electrified Locks
- Full Mortise Hinges are highly recommended for modification purposes
- Monitoring can be supplied on a half surface hinge if the need arises
- It is recommended that the center hinge location be used with all electrically modified hinges
- The maximum voltage allowed in electrified hinges is 48 volts. The current (amperes) should also be taken into consideration

ITEM#	NO. OF WIRES	CONTINUOUS HINGE ELECTRIFICATION MODIFICATIONS FOR CRHD781120 AND CRHD782240 ONLY
CET8CRHD781120 CLR	8	Removable 12" Aluminum Gear Hinge Can easily be removed for adjustment and service.
CET8CRHD781120 DB		
CET8CRHD782240 CLR		
CET8CRHD782240 DB		
EPT	--	Cut-out according to Von Duprin Part # EPT-10 and Cal-Royal CRPT-10, CRPT-10C and CRPT-2 location



FOR QUICK CONNECT OPTION ON 8-WIRE & 12-WIRE ELECTRIFICATION, PREFIX "ELQC" BEFORE ITEM #.



MICRO-FIT 3.0™ INTERCONNECT SYSTEM AVAILABLE TO RETROFIT COMMON QUICK CONNECTION SYSTEMS SUCH AS ELECTROLYNX® OR ALLEGION CONNECT®.



CET8CRHD782240



CET8CRHD781120

4-, 6- and 8-wire available on all standard weight, heavy weight and concealed ball bearing hinges in all sizes. Specify Hinge.

ENERGY TRANSFER HINGES FOR CYLINDRICAL LOCKS, MORTISE LOCKS AND PANIC TRIMS

Prefix **ELE** + (***No. of wires***) before **ITEM #**

ELE4: 4 Wires - 26 gauge - 1A@24V (per pair)
ELE6: 6 Wires - 28 gauge - 1A@24V (per pair)
ELE8: 8 Wires - 28 gauge - 1A@24V (per pair) - **ELQC8:** (For QC Option)
ELE12: 12 Wires - 28 gauge - 1A@24V (per pair) - **ELQC12:** (For QC Option)

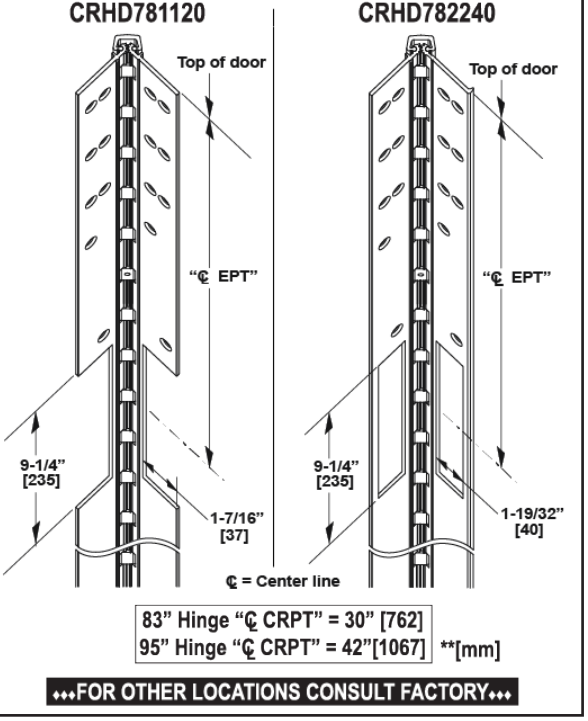
ENERGY TRANSFER HINGES FOR ELECTRIFIED PANIC BAR (ELR)

Prefix **ELELR** + (***No. of wires***) before **ITEM #**

ELELR4: 2 Wire -18 gauge, 5A (16A in-rush for 300 ms.) + **2 Wire** -26 gauge
ELELR6: 2 Wire -18 gauge, 5A (16A in-rush for 300 ms.) + **4 Wire** -28 gauge
ELELR8: 2 Wire -18 gauge, 5A (16A in-rush for 300 ms.) + **6 Wire** -28 gauge
ELELR12: 2 Wire -18 gauge, 5A (16A in-rush for 300 ms.) + **10 Wire** -28 gauge

***Each 18 AWG wire is rated 24 Volts AC/DC at 5 amps max. continuous, or 16 amps max. current with 300 msec. minimum "off" time between pulses, for 10 seconds**

EPT CUT-OUT LOCATION



83" Hinge "℄ CRPT" = 30" [762]
95" Hinge "℄ CRPT" = 42"[1067] **[mm]

•••FOR OTHER LOCATIONS CONSULT FACTORY•••

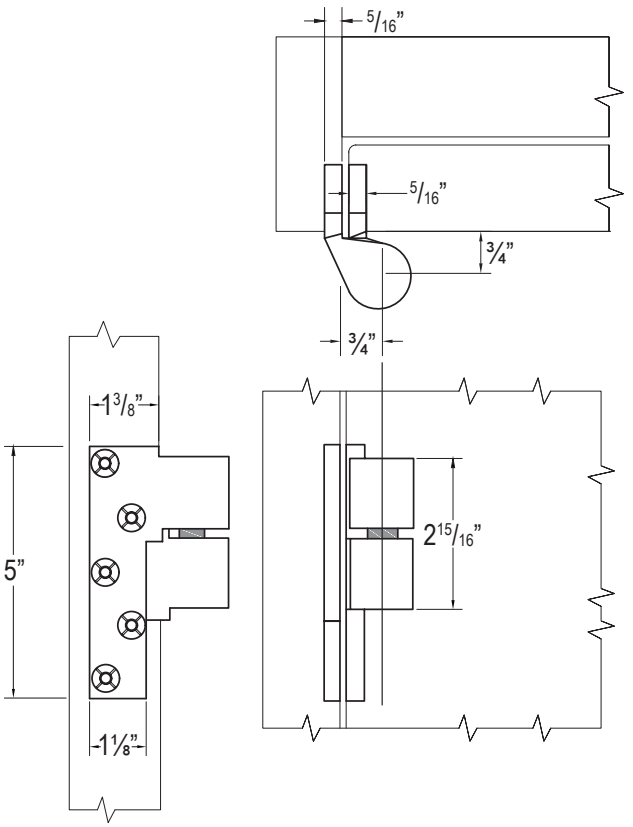
ELECTRIFICATION

- For medium and heavy wood and metal doors in high traffic areas
- **4 wires, 26 gauge**
- Can be used on exterior and interior doors
- Can be used with top and bottom pivots
- Handed
- Not load bearing
- Maintains door alignment and aids in installing bottom pivots
- Doors 60” to 90” in height should use one intermediate pivot
- Each additional 30” warrants another intermediate pivot
- Vertical adjustment up to $^{3}/_{16}$”
- Fasteners: 8 pcs wood screws and 8 pcs. machine screws



ELEPV010

ITEM #	SIZE	OFFSET	THICKNESS
ELEPV010-RH	5” x 4 ¼”	¾”	$^{5}/_{16}$”
ELEPV010-LH	5” x 4 ¼”	¾”	$^{5}/_{16}$”

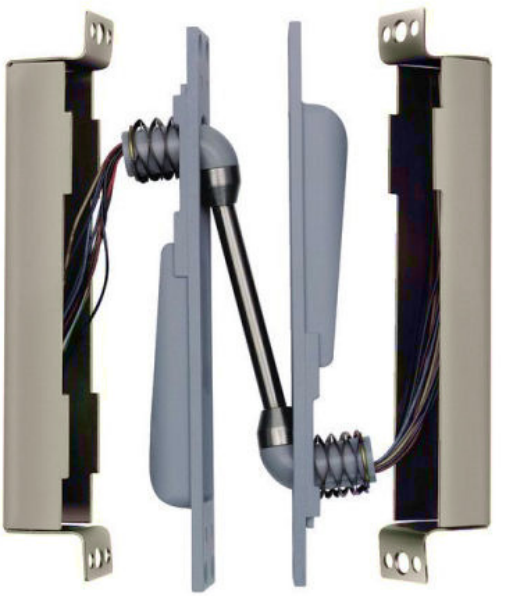


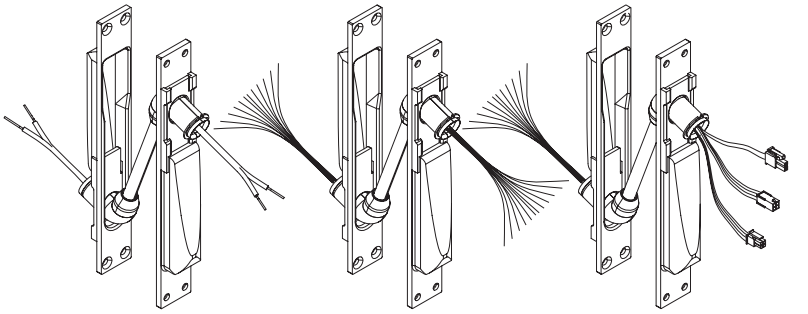
CRPT-2, CRPT-10, CRPT-10C
CONCEALED POWER TRANSFER UNITS

c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

Features:

- **CRPT-2**, **CRPT-10** and **CRPT-10C** are designed to transfer electrical power from the frame to the door in a very secure manner
- **UL 10C-Listed** for up to 3 hours for Fire Rated doors and frames **Standard 7-2**, "Fire Test of Door Assemblies" (1997)
- **UL-Listed** as Miscellaneous Fire Door Accessories
- Classified according to Uniform Building Code (UBC)
- Unit is mortised into the edges of the door and frame and is completely concealed when door is in the close position
- Designed for use in high traffic openings
- Packaged individually with fasteners for wood, steel or aluminum doors and frames
- All parts are made of metal including back boxes - no plastic parts
- Crimp connectors are supplied for a more secure and clean connection
- Housing Dimensions: 9" H x 1 ¼" W x 1 ⅝" D (229mm x 32mm x 41mm)
- Minimum door thickness - 1 ¾"
- Approximate shipping weight: 2.25 lbs.
- Standard Finishes:
  - AL - Aluminum
  - DU - DURO
- *Not for use with swing-clear hinges, pocket pivots, butt hinges larger than 6", 1 ½" offset pivots or center hung doors*





CRPT-2 CRPT-10 CRPT-10C

Can be used in combination with the following hinges:	
HINGE TYPE	**MAXIMUM DOOR SWING**
Butt Hinges up to 5"	180°
5 ½" butt hinges	130°
6" butt hinges	110°
Up to ¾" offset pivots	180°
WARNING: Not for use with swing-clear hinges, pocket pivots, butt hinges larger than 6", 1 ½" offset pivots or center hung doors	

TECHNICAL SPECIFICATIONS	
CRPT-2	- (2) 18 AWG Wires - Max. Rating: Up to 2 AMPS @ 24V DC, 2A or 120V AC NEC Class 3
CRPT-10	- (10) 24 AWG Wires - Max. Rating: Up to 1 AMP @ 24V DC, 1A
CRPT-10C	- (10) 24 AWG Wires - Max. Rating: Up to 1 AMP @ 24V DC, 1A - 3 separate quick-link connectors for a more organized connection

MANUFACTURER CROSS REFERENCE

CAL-ROYAL	Von Duprin*	Securiton*	ABH*	SDC*
CRPT-2	EPT2	CEPT-2	PT200	PTM-2
CRPT-10	EPT10	CEPT-10	PT1000	PTM-10
CRPT-10C	EPT-10C	EL-CPT-10C	-	-

*Brand names are trademarks or registered trademarks of their respective companies.

MAGNETIC DOOR HOLDER

Features

- Tri-voltage (Can be wired 12V DC, 24V AC / DC or 120V AC)
- Can be used on Fire or Smoke Barrier doors Held-Open until released by a Remote Switching device
- Used alternatively as Hold-Open system
- Thru-bolted Armature for Security
- 30-45 Pound Holding Power
- Underwriters US and Canada Listed
- ANSI / BHMA A156.15
- Available in US28 (Brushed Aluminum), Duro and Gold finishes

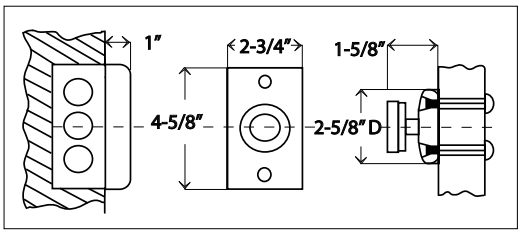
Approved by the **California Department of Forestry & Fire** in accordance with printed instructions, applicable codes and ordinances in a manner acceptable to the authority having jurisdiction.

MDHR-1
RECESSED WALL MOUNT

PACKED WITH 1" EXTENSION BOLT

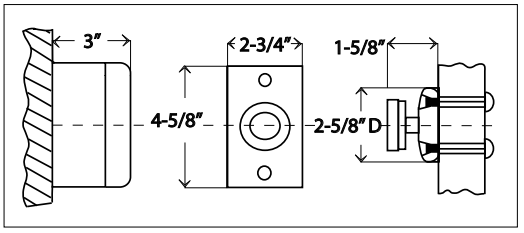






MDHS-2
SURFACE WALL MOUNT





PERFORMANCE DATA			
MODEL	VOLTS	mAmps	VA
MDHR-1	12 DC	60	72
MDHS-2			

ITEM #	DESCRIPTION	FINISH	PCS /MC	UNIT
MDHR-1	Magnetic door holder recessed wall mount with 1" extension bolt	US28 DURO GOLD	1	Ea.
MDHS-2	Magnetic door holder surface wall mount			
MDHEXT-3	Additional 1" Extension Bolt	US28		

CROSS REFERENCE									
FUNCTION	CAL-ROYAL	ABH	DORMA	RIXSON	NORTON	YALE	SARGENT	CORBIN RUSSWIN	LCN
RECESSED WALL MOUNTED 3 ⅝" TOTAL PROJECTION	MDHR-1	2100* with 1" extension	EM-F24120	FM-998	6933	5933	1560	MA 204 MA 244	SEM 7850
RECESSED WALL MOUNTED 2 ⅝" TOTAL PROJECTION	MDHR-1	2100	EM-F24120	FM-997	6934	5934	1560	MA 203 MA 243	SEM 7840
SURFACE WALL MOUNTED 4 ⅝" TOTAL PROJECTION	MDHS-2	2300	EM-S24120	FM-996 FM-999	6935	5935	-	-	SEM 7830

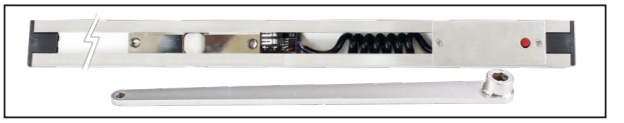
CR441EHO - CR441 WITH ELECTRONIC HOLD-OPEN TRACK

- Full Cover Multi-size
- Full Feature Closer
- ANSI A156.4 Grade 1
- UL Listed, Conforms to Standards
- UL10C and UBC7-2-1997
- BHMA Certified Lifetime Warranty
- Electronic Hold Open Track



c UL us
3 HOUR FIRE RATED
UL10C, UBC7-2-1997

BHMA CERTIFIED
Be Safe. Be Secure. Look for the Mark.
(ON DOOR CLOSER BODY ONLY)



FEATURES

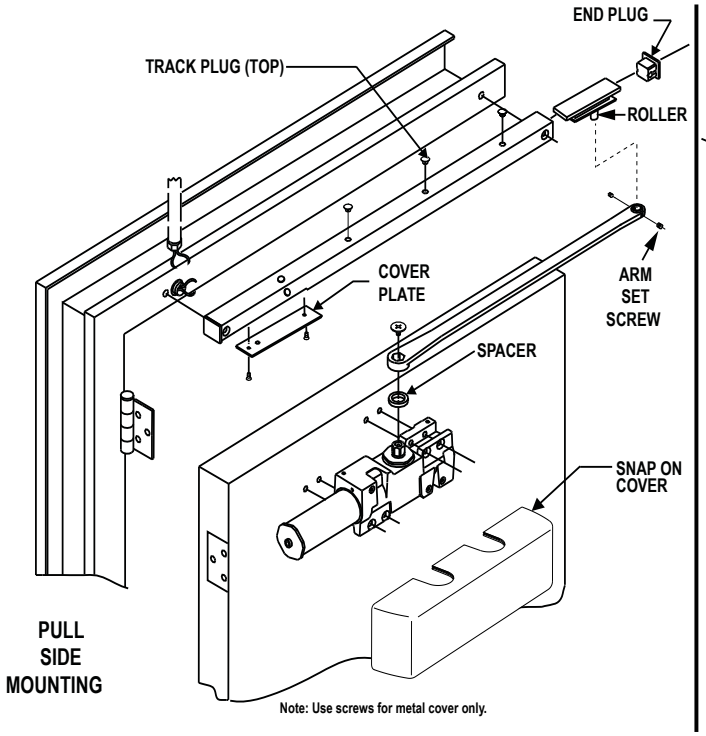
- Heavy Duty Electronic Closer / Holder Track for CR441 Door Closers
- Designed for Single Point Hold-Open for Fire and Smoke Barrier Doors
- Designed to Hold Doors Open in Normal Use and Close Under Fire Conditions
- Adjustable Hold-Open Force
- Functions as a Full Rack and Pinion Closer when Hold-Open is Not Engaged or Current is Interrupted
- Door Opening can be Adjusted on the Track Arm
- Concealed or Surface Wiring
- Interfaces with Alarm Systems
- Mounts on Either Head Frame or Stop
- Non-Handed
- Non-Sized
- 24V AC / DC Input for Holding Solenoid
- Includes Test Switch for Integrity Cycle Test

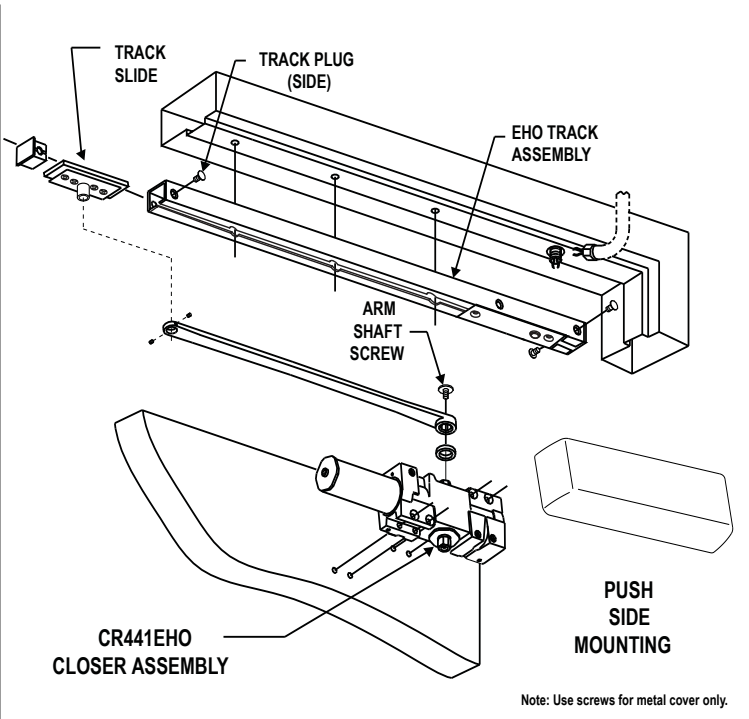
The **CR441EHO** is a Grade 1 heavy duty door closer with electrically controlled hold-open track arm. It is designed to provide adjustable hold-open for fire and smoke barrier doors.

Door is held open until current interruption releases mechanism and the door closes. It can also be interfaced to any alarm systems and has a built-in switch for integrity cycle testing.

Single lever (track) arm closer is specifically designed for interior doors.

The **CR441EHO** Series door closer body is UL & cUL listed for smoke barrier or labeled fire doors. Tested and certified under ANSI Standard A156.15. Conforms to life safety code, NFPA 101. BHMA Certified Lifetime Warranty.





DISCLAIMER

Dear Valued Customer,

Most products in our European Line catalog are certified for fire use and has been approved based on European Fire and Safety Standards, and are marked accordingly. The standards used are CE (European Conformity), EN European Standards (ENs) and BS EN (British Standard European Norm).

CE Marking is the symbol CE. The letters "CE" are the abbreviation of French phrase "Conformité Européene" which literally means "European Conformity". The term initially used was "EC Mark" and it was officially replaced by "CE Marking" in the Directive 93/68/EEC in 1993. "CE Marking" is now used in all EU official documents.

Our European Line are for use where CE and BS EN standards are required, mostly in European, Middle East and Asian countries. Products that have CE or EN markings does not automatically translate to UL fire and safety standards and may not be recognized by local fire marshalls during inspection.

For UL Listed products, please refer to our standard product catalog. Cal-Royal Products, Inc. will not be held responsible for EU products that are installed in the US and did not meet Fire inspection standards.

Sincerely,

CAL-ROYAL PRODUCTS, INC.

6605 Flotilla St.
City of Commerce, CA 90040 U.S.A

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Fax: 323.888.6699 1-800-222-3316

Website: www.cal-royal.com
Email: sales@cal-royal.com

CAL-ROYAL PRODUCTS, INC.

CAL-ROYAL PRODUCTS, INC.

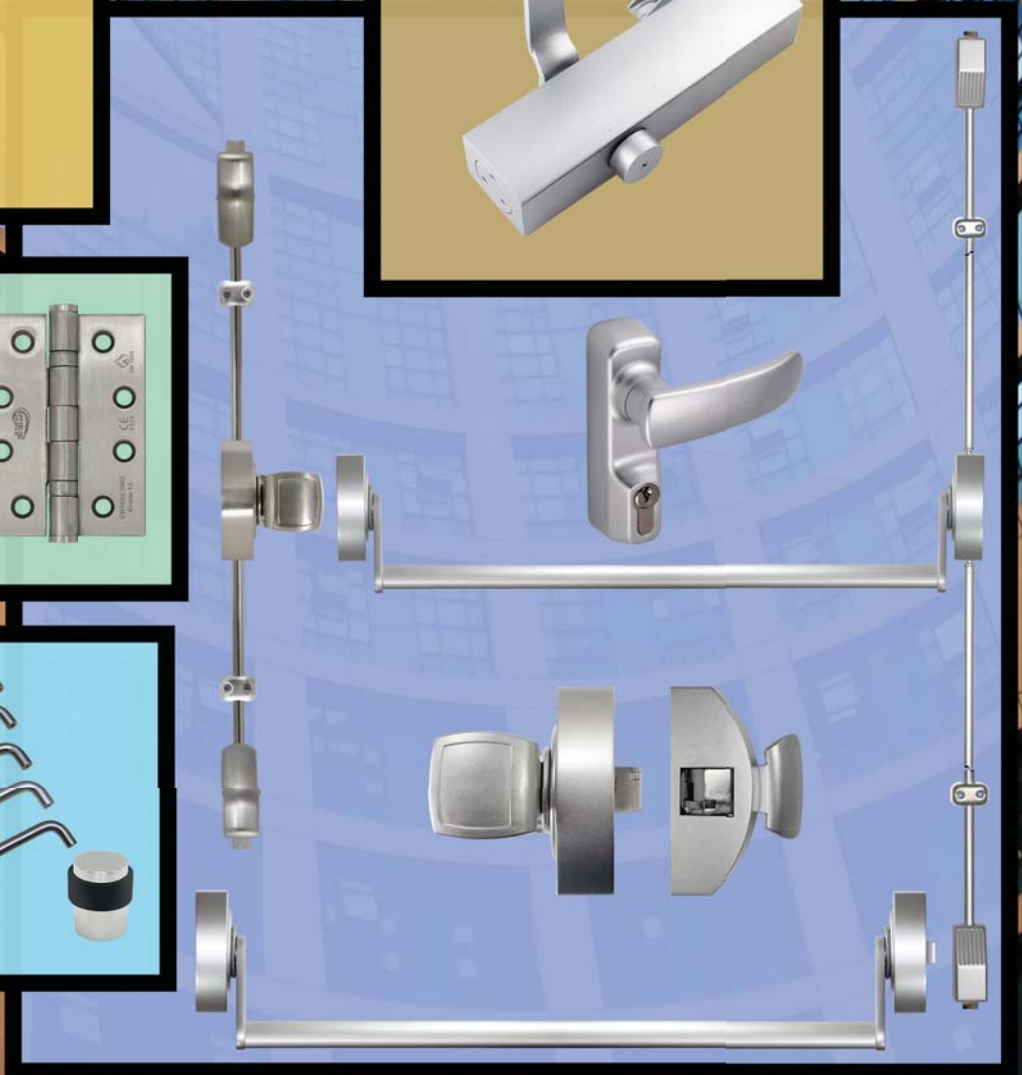
CRP SECURITIES

EURO-DOOR HARDWARE CATALOG











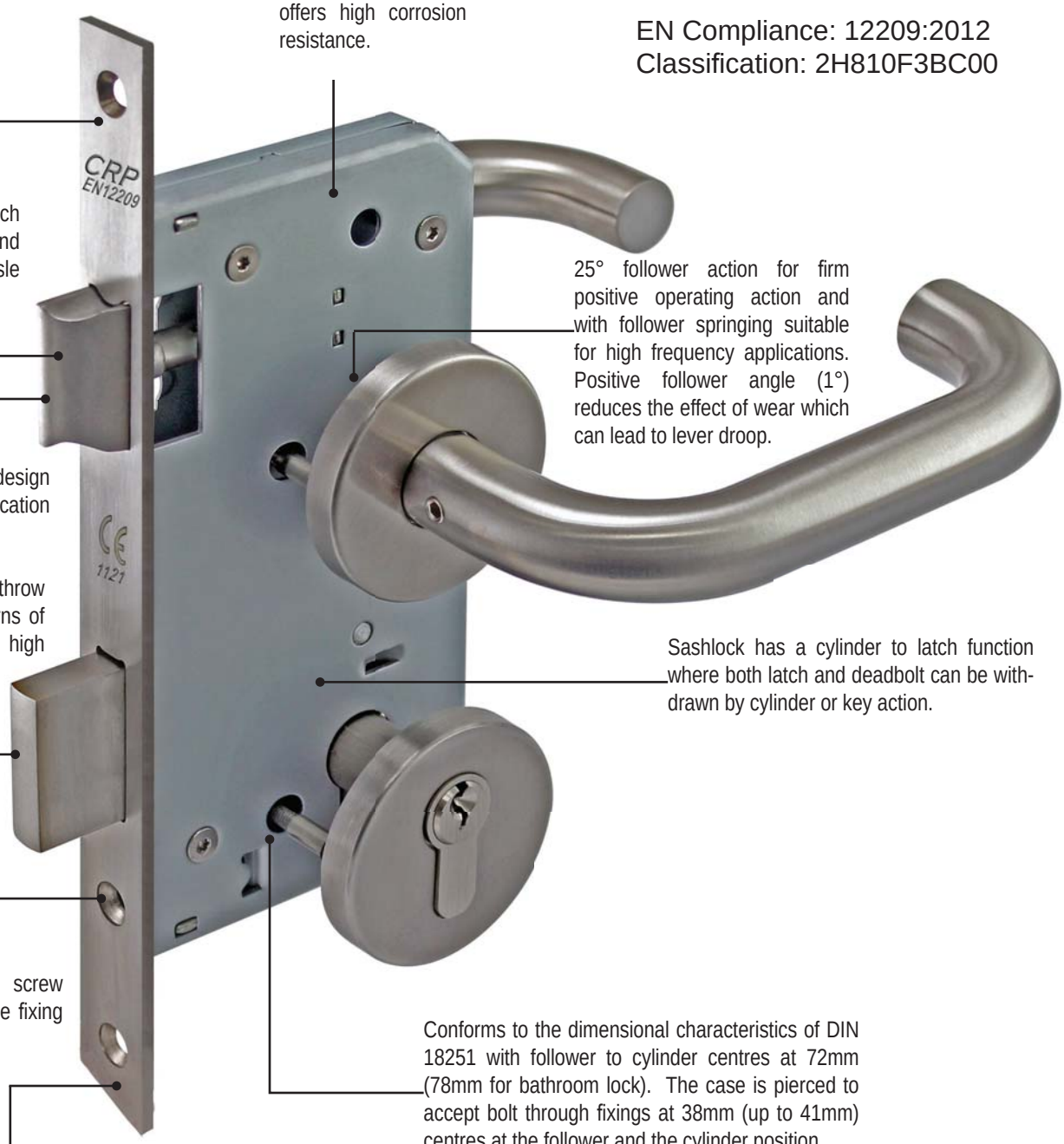
6605 Flotilla Street, City of Commerce, California USA 90040 ○ Tel. 1-323-888-6601 ○ Fax. 1-323-888-6699 ○ Email: sales@cal-royal.com

EU 6400 SERIES MORTICE LOCKSET

European lockcase design offers simplified door preparation and modular accessories for easy functional change

Powder coated case offers high corrosion resistance.

EN Compliance: 12209:2012
Classification: 2H810F3BC00



Quick-reverse latch for left and right hand application. No-hassle field-reversible.

25° follower action for firm positive operating action and with follower springing suitable for high frequency applications. Positive follower angle (1°) reduces the effect of wear which can lead to lever droop.

Profiled latch design provides positive location and operation.

20mm double throw deadbolt from 2 turns of the cylinder offers high level of security

Sashlock has a cylinder to latch function where both latch and deadbolt can be withdrawn by cylinder or key action.

Guided cylinder screw accurately aligns the fixing to the cylinder.

Conforms to the dimensional characteristics of DIN 18251 with follower to cylinder centres at 72mm (78mm for bathroom lock). The case is pierced to accept bolt through fixings at 38mm (up to 41mm) centres at the follower and the cylinder position,

One-piece square ended face plate in stainless steel grade 304 with satin finish.
Optional round ended corner is also available.

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CE MARKING GUIDE FOR LOCKSETS

EN 12209 classifies mechanically operated locks, latches and locking plates using an 11 digit coding system. Fundamental to this standard is a comprehensive classification system for assessing the wide range of products needed to satisfy the diverse requirements of the European market. Features assessed include normal use (and abuse) forces, long-term durability, fire/smoke resistance, corrosion and temperature resistance and security, both manipulative and physical.

Digit 1 - Category of use

Grade 1: low frequency of use by people with a high incentive to exercise care and a small chance of misuse, e.g. internal residential doors
Grade 2: medium frequency of use by people with some incentive to exercise care but where there is some chance of misuse, e.g. internal office doors
Grade 3: high frequency of use by public or others with little incentive to exercise care and with a high chance of misuse, e.g. public doors

3
1-3

Digit 2 - Durability

Twelve grades are categorized with minimum figures for deadbolt and snib operation, and latch bolt operation with and without side load, as shown. The side load is applied to the latch bolt when it is being withdrawn

X
A-X

Digit 3 - Door mass and closing force

Nine grades are categorized with maximum figures for closing force at various door masses as shown. Note: closing force is from a standing start: i.e. fully extended latch bolt in contact with striking plate at start of test

8
1-9

Digit 4 - Fire resistance

Grade 0: not approved for use on fire/smoke door assemblies
Grade 1: suitable for use on fire/smoke door assemblies tested to EN 1634-1 etc.

1
1

Digit 5 - Safety

No requirement, but note: a lock or latch conforming to this standard can, at the same time, also be part of an exit device conforming to EN 179 or EN 1125.

0
0

Digit 6 - Corrosion resistance

Eight grades are categorized with neutral salt-spray (NSS) corrosion resistance grades from EN 1670:1998, with and without temperature resistance.

G
0-G

Digit 7 - Security and drill resistance

Seven grades are categorized with minimum figures for requirements relating to physical attack, with or without drilling of the lockcase.

4
1-7

Digit 8 - Field of door application

Fifteen grades are categorized for identifying applications – hinged or sliding doors with rim or mortice locks with either keyless egress from inside or key locking from both sides. The grading determines which application is appropriate. In addition, there is a requirement that lock/latch should not be removable from outside or, for grades K to R, from inside using “standard” tools. Grades H and P require support for the lockcase when installed.

B
A-T

Digit 9 - Type of key operation and locking

Nine grades are classified for identifying types of key operation. The grading determines how the lock is assessed for deadlocking requirement as shown. In addition, there is a maximum key torque operating requirement of 1.5 Nm and a minimum key strength equirement of 2.5 Nm:
Grade 0: not applicable;
Grade A: cylinder lock or latch; manual locking;
Grade B: cylinder lock or latch; automatic locking;
Grade C: cylinder lock or latch; manual locking with intermediate locking;
Grade D: lever lock or latch; manual locking;
Grade E: lever lock or latch; automatic locking;
Grade F: lever lock or latch; manual locking with intermediate locking;
Grade G: lock or latch without key operation; manual locking;
Grade H: lock without key operation; automatic locking.

A
0-H

Digit 10 - Type of spindle operation

Five grades are specified:
Grade 0: lock without follower
Grade 1: lock with sprung lever or knob
Grade 2: lock with light unsprung lever
Grade 3: lock with heavy unsprung lever
Grade 4: lock with manufacturer’s own specification furniture

0
0-4

Digit 11 - Key identification

Nine grades are categorized based on the number of effective differs and levers. Grade 0 relates to a latch with no locking action

0
0

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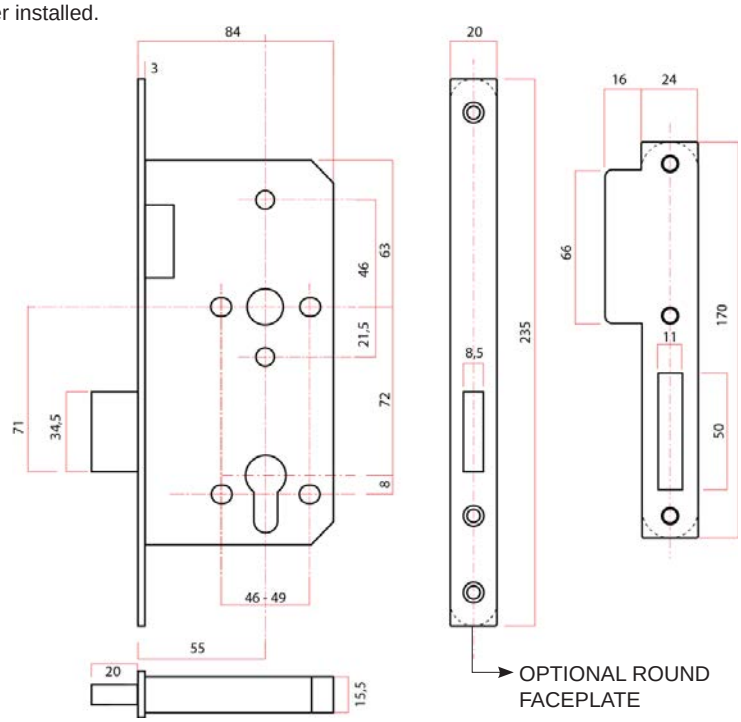
EU 6400 SERIES MORTICE LOCKSET



EN Compliance: 12209:2012
Classification: 2H810F3BC00

EU6410 CYLINDER DEADLOCK

Function: Deadbolt thrown and retracted from one side or from both sides depending on the type of cylinder installed.

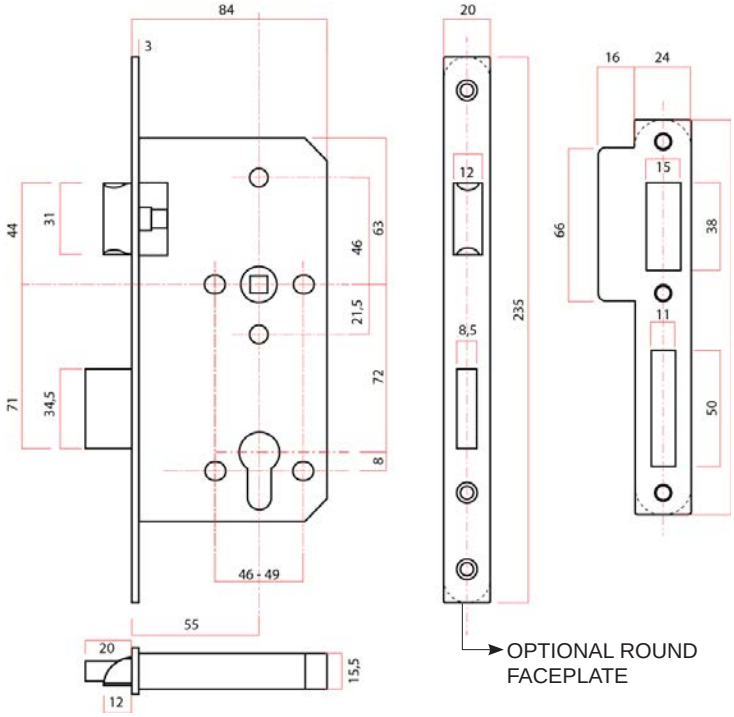




EN Compliance: 12209:2012
Classification: 2H810F3BC20

EU6420 CYLINDER SASHLOCK

Function: Latchbolt can be operated by lever handles on either side. Deadbolt thrown and retracted from one or from both sides depending on the type of cylinder installed. Cylinder action will operate both deadbolt and latchbolt.



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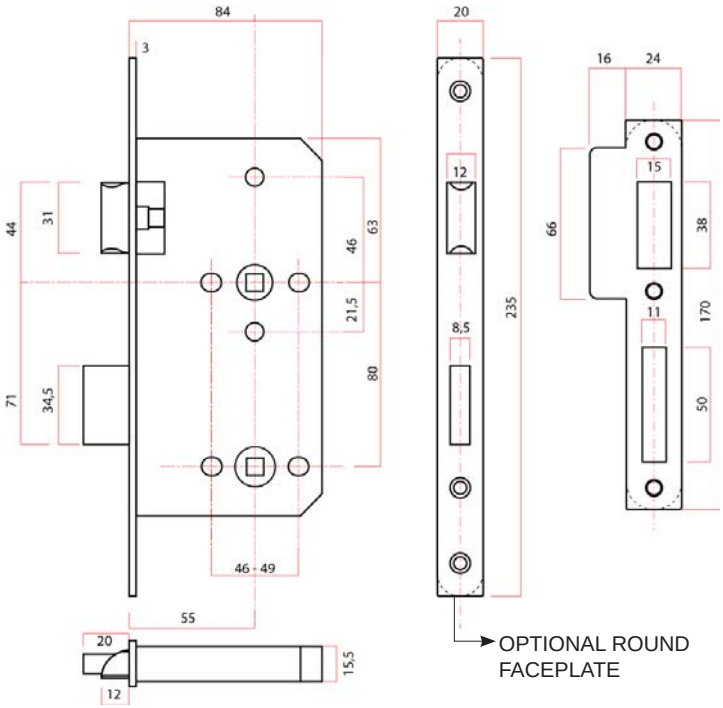
EU 6400 SERIES MORTICE LOCKSET



EN Compliance: 12209:2012
Classification: 2H810F-BC00

EU6430 BATHROOM LOCK

Function: Latchbolt operated by lever on either side. Deadbolt is thrown by thumbturn inside. An indicator with an emergency release can be installed on the outside of the door and operates in conjunction with the thumbturn.

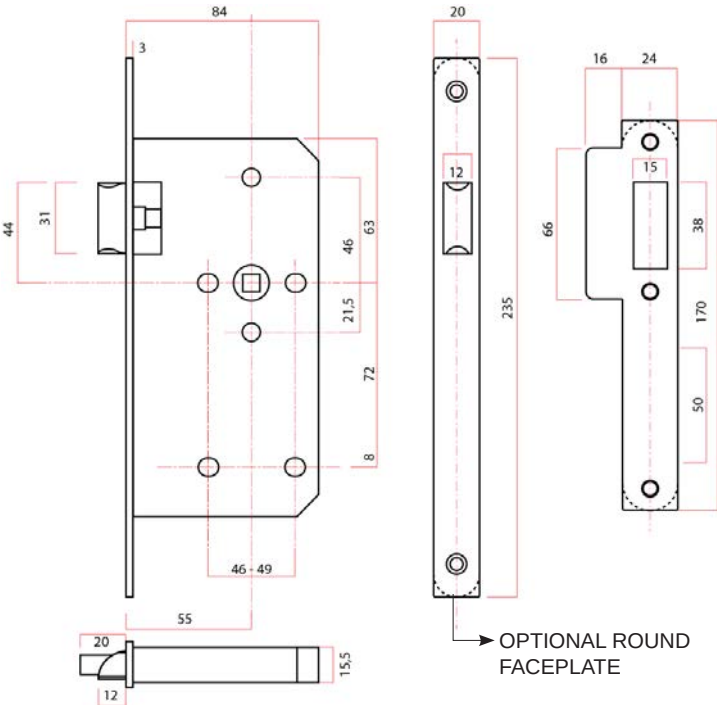




EN Compliance: 12209:2012
Classification: 2H810F-BC00

EU6440 PASSAGE LATCH

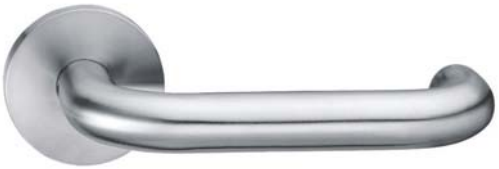
Function: Latchbolt can be operated by lever handles on either side all the time.

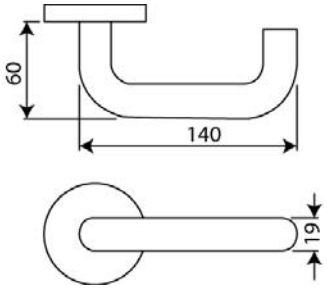


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EU 6400 SERIES LEVER TRIMS

6450





LEVERSET DESIGNS

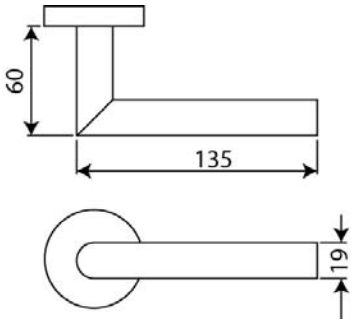
5-Year Warranty

FEATURES
- Stainless Steel Grade 304
- Installed on 8mm thick unsprung rose
- Bolts and spindle included for 34 - 54mm thick doors

EN Compliance: EN1906 - Grade 4
EN1634 for up to 2 hour wood fire door applications and up to 4 hour metal fire door applications.

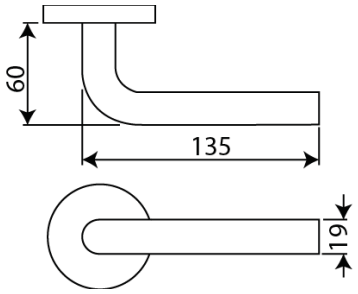
6451





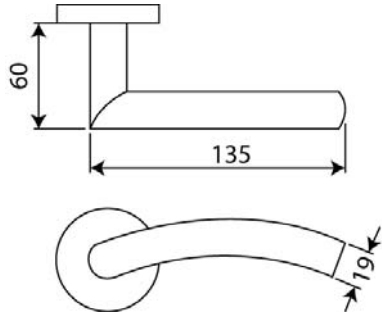
6452





6453





EU 6400 SERIES ACCESSORIES

CYLINDERS

5-Year Warranty



KE-SCC-S-A
KE-YA8-S-A



KE-SCC-D-C
KE-YA8-D-C



KE-SCC-C-C
KE-YA8-C-C



KE-P-D

Standards & Testing	Conforms to EN1303
Materials & Features	70mm, 6 pin standard, other sizes available
	Base Material: Brass
	3 Brass keys, Standard for non-masterkeyed system
Master Keying	4 level Master Keying system available
Finish	Satin Nickel Plated

ITEM CODE	KEYWAY	FUNCTION	LENGTH (mm)
KE-SCC-S-A	Schlage C	Half Cylinder	45
KE-YA8-S-A	Yale 8		
KE-SCC-D-C	Schlage C	Double Cylinder	60
KE-YA8-D-C	Yale 8		
KE-SCC-D-D	Schlage C	Double Cylinder	70
KE-YA8-D-D	Yale 8		
KE-SCC-C-C	Schlage C	Thumbturn Cylinder	60
KE-YA8-C-C	Yale 8		
KE-SCC-C-D	Schlage C	Thumbturn Cylinder	70
KE-YA8-C-D	Yale 8		
KE-P-D	-	Bathroom Cylinder	70

ESCUTCHEONS



6910



6920



6930



6940



6950

MODEL #	DESCRIPTION	FINISH
6910	Escutcheons (pair) - Lever key suitable for lock lever lock cases	Stainless Steel
6920	Escutcheons (pair) - Euro profile cylinder suitable for euro profile or dual profile cylinder lock cases	
6930	Bathroom turn and Indicator (set) - Supplied with 5mm bathroom function spindle Wide Turn	
6940	Escutcheons (pair) - Blank	
6950	Escutcheons (pair) - Oval profile cylinder suitable for oval profile or dual profile cylinder lock cases	

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CE MARKING GUIDE FOR EXIT DEVICES

EN 1125 classifies panic exit devices using a 9 digit coding system. Each digit refers to a particular feature of the product measured against the standard's performance requirements.

EN 179 classifies emergency exit devices to identify compliance with the standard performance requirements.

Digit 1 - Category of use

Grade 3: High frequency use by public and others with little incentive to exercise care.

3
3

Digit 2 - Durability

Grade 6: 100 000 cycles.
Grade 7: 200 000 cycles.

7
6/7

Digit 3 - Door mass and closing force

Grade 5: Up to 100kg.
Grade 6: Up to 200kg.
Grade 7: Over 200kg.

6
5-7

Digit 4 - Fire resistance

Grade 0: Not approved for use on fire/smoke door assemblies.
Grade A: Suitable for use on smoke door assemblies, based on requirements B1, Annex B.
Grade B: suitable for use on fire and smoke door assemblies based on a test in accordance with EN 1634-1. Annex B contains additional requirements for panic exit devices to this grade.

B
0/A/B

Digit 5 - Safety

Grade 1: All exit devices are required to satisfy the essential requirement of safety in use.

1
1

Digit 6 - Corrosion resistance

Two grades are categorized:
Grade 3: High resistance.
Grade 4: Very high resistance.

3
3/4

Digit 7 - Security and drill resistance

EN 1125 Grade 2: Panic devices are primarily for the operation of a door from the inside. Safety considerations will always be given priority over security
Grade 2:1000N (minimum specification)
EN 179 Grade 2: 1000N

2
2-5

Digit 8 - Projection of Device

Grade 1: Projection up to 150mm (large projection).
Grade 2: Projection up to 100mm (standard projection).

2
1/2

Digit 9 - Type of device

EN 1125 Type A: Panic device with push bar operation.
Type B: Panic device with touch bar operation.
EN 179 Type B: PAnic Exit Device with push pad operation

A
A/B

B
B

Digit 10 - Field of door operation

Category A - Single/Double door: active or inactive leaf.
Category B - Single door only
Category C - Double exit door; inactive door

A
A-C

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EU 670 SERIES PUSH BAR PANIC EXIT HARDWARE

Specifications

Testing..... CE Marked
EN 1125 and EN 1634
Fully Certified

Latching..... Single Point (678)
2-Point (677)
Anti-Thrust Latch prevents unauthorized latch retraction (678)

Pullman Latch..... Supplied together with Vertical Rod Exit Device(677)

Hand..... Non-handed

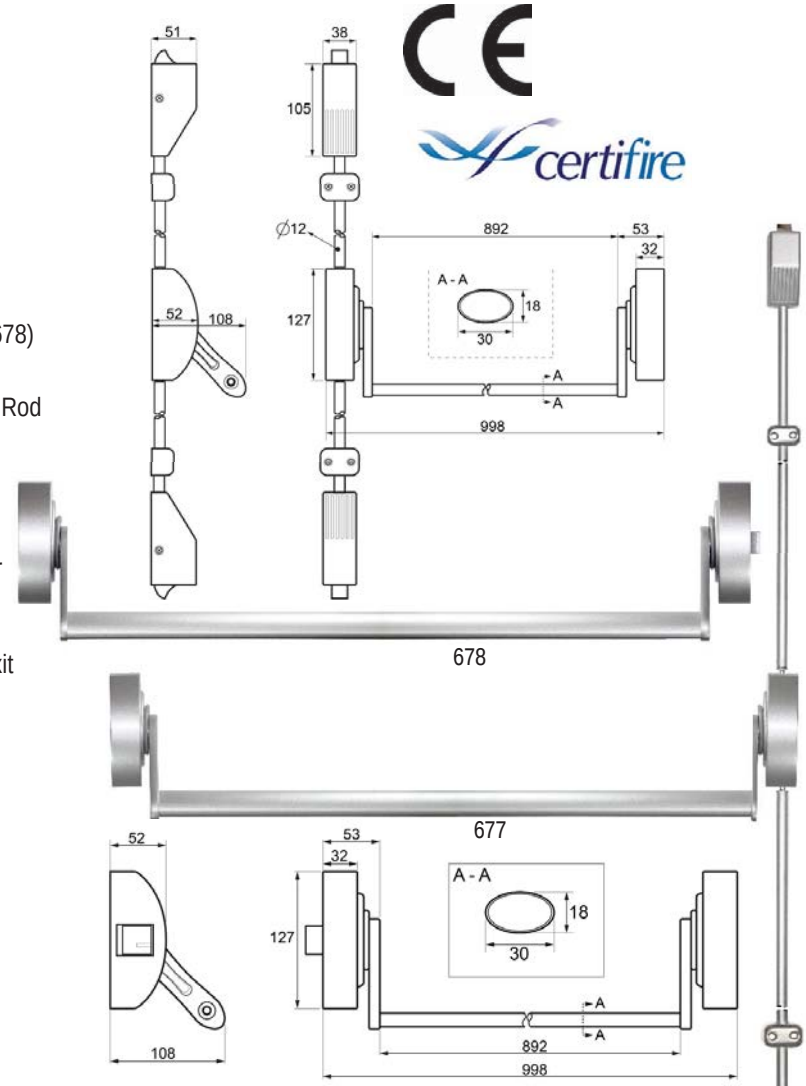
Application..... Double door strike available for double doors (67-DSTPL)
Designed to satisfy panic exit applications and emergency exit applications

Finish..... Aluminum, Stainless Steel

Door Thickness..... 35mm - 65mm

Tubular steel shoots and cross bar..... Can be cut on-site to suit door width and height

Horizontal Bar..... Standard oval shaped, 900mm



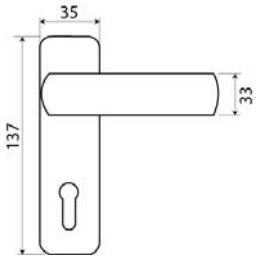
MODEL #	FUNCTION	DOOR WIDTH / HEIGHT	FINISHES
677	Surface Vertical Rod Exit Device	Up to 2500mm high x 1300mm wide	Aluminum, SSS
678	Rim Exit Device	Up to 1300mm wide	Aluminum, SSS
ACCESSORIES			
67-XLVR	Extra Long Vertical Rod for 3048mm doors		
67-DSTPL	Double Door Overlapping Strike Plate		



67-DSTPL



6413E/LE



ESCUTCHEON LEVER TRIM DESIGN

- Supplied with euro profile cylinder as standard
- Suitable for doors between 35mm to 65mm thick
- Non-handed. Easily field reversible

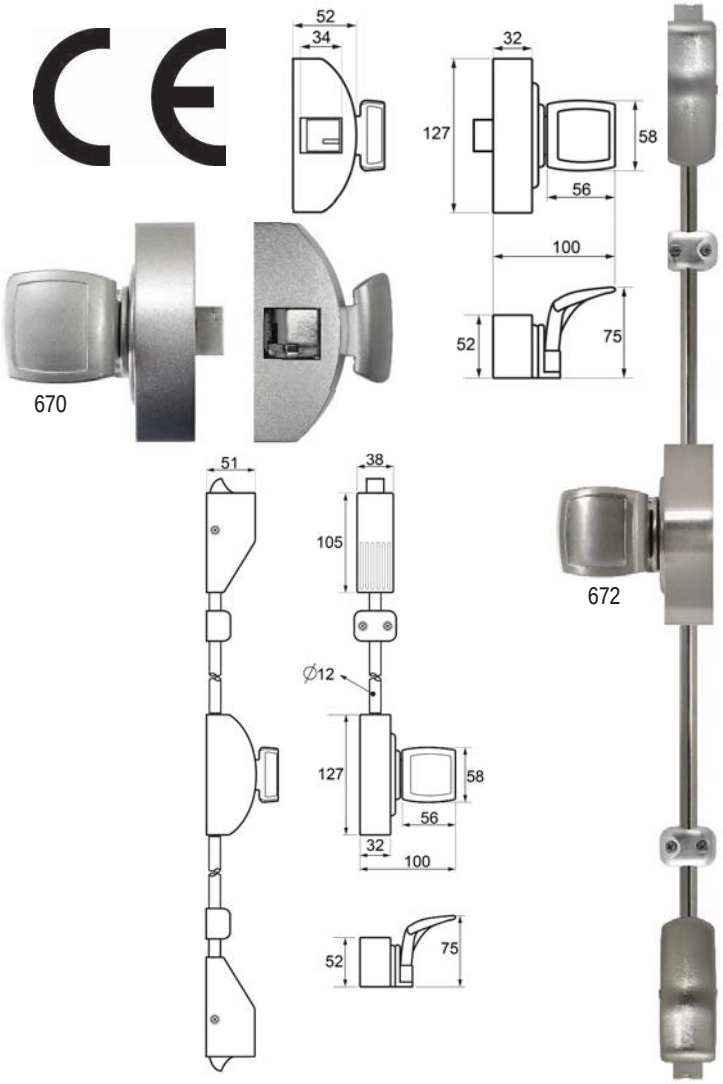
MODEL #	DESCRIPTION	DOOR THICKNESS	FINISH
6413E/LE	Outside access Lever Trim	35mm to 65mm thick	Aluminum, SSS

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EU 670 SERIES PUSH PADDLE EMERGENCY HARDWARE

Specifications

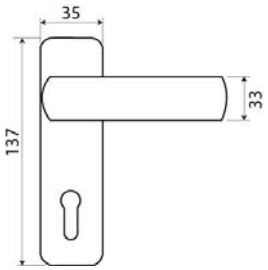
Testing.....	CE Marked EN 179 Fully Certified
Latching.....	Single Point (670) 2-Point (672) Anti-Thrust Latch prevents unauthorised latch retraction (670)
Pullman Latch.....	Supplied together with Vertical Rod Exit Device (672)
Hand.....	Non-handed
Finish.....	Aluminum, Stainless Steel
Application.....	Double door strike available for double doors (67-DSTPL). Designed to satisfy emergency exit applications
Door Thickness.....	35mm - 65mm
Tubular steel shoots.....	Adjustable, can be cut on-site to suit door width and height



MODEL #	FUNCTION	DOOR WIDTH / HEIGHT	FINISHES
670	Push Paddle Rim Exit Device	Up to 1300mm wide	Aluminum, SSS
672	Push Paddle Surface Vertical Rod Exit Device	Up to 2500mm high x 1300mm wide	Aluminum, SSS
ACCESSORIES			
67-XLVR	Extra Long Vertcal Rod for 3048mm doors		
67-DSTPL	Double Door Overlapping Strike Plate for 670		


67-DSTPL





ESCUTCHEON LEVER TRIM DESIGN

- Supplied with euro profile cylinder as standard
- Suitable for doors between 35mm to 65mm thick
- Non-handed. Easily field reversible

MODEL #	DESCRIPTION	DOOR THICKNESS	FINISH
6413E/LE	Outside access Lever Trim	35mm to 65mm thick	Aluminum, SSS

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CE MARKING GUIDE FOR DOOR CLOSERS

EN 1154 classifies door closers using a 6 digit coding system.Each digit refers to a particular feature of the product measured against the standard's performance requirements.

Digit 1 - Category of use

Grade 3: For closing doors from at least 105° open.
Grade 4: For closing doors from 180° open.

4
3/4

Digit 2 - Number of Test Cycles

Grade 8: 500 000 cycles.

8
8

Digit 3 - Door mass and closing force

Grade 5: Up to 100kg.
Grade 6: Up to 200kg.
Grade 7: Over 200kg.

3
1-7

Closer Power Size	Width of Door (mm)	Max. Mass of Door (kg)
1	750	20
2	850	40
3	950	60
4	1100	80
5	1250	100
6	1400	120
7	1600	160

1
0/1

Digit 4 - Fire resistance

Grade 0: Not suitable for use on fire/smoke door assemblies.
Grade 1: Suitable for use on fire/smoke door assemblies, subject to satisfactory assessment of the contribution of the door closer to the fire resistance of specified fire/smoke assemblies. This is assessed outside of EN 1154.

1
1

Digit 5 - Safety

Grade 1: All door closer devices are required to satisfy the essential requirement of safety in use.

3
0-4

Digit 6 - Corrosion resistance

GRADE	0	1	2	3	4
CORROSION RESISTANCE	No Defined	Mild	Moderate	High	Very High

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EU430CE & EU430 SERIES DOOR CLOSERS

The EU430 Series offers 2 types of compact overhead door closers suited for the most common door sizes.
All the features, sturdiness, functionality and quality that spec writers are looking for can be found in these door closers.

EU430CE DOOR CLOSER

Tested to EN 1154 483113 and CE Marked
EN 1634 fire Tested
Certifire Approved CF390
Fixed Power Size 3

EU430 DOOR CLOSER

The EU430 is power adjustable by postion during installation to suit closer sizes #2 to #4. It does not have the CE Mark and is designed for use in non-fire door applications only.



DATA AND FEATURES		430CE	430
Standard doors	≤850mm ≤40kg	O	v
	≤950mm ≤60kg	fixed	v
	≤1100mm ≤0kg	O	v
Body dimensions (mm)	Length	181	181
	Height	62	62
	Projection	42	42
Arm	Standard	v	v
	Track (standard)	O	O
	Track (hold-open)	O	O
Rack and pinion	Heavy Duty	v	v
Power adjustment arm bracket		v	v
Angle of opening		180º	180º
Fixed Strength or adjustable		fixed	adjustable
Method of adjustment		fixed	template
Separate latch action/closing speed		v	v
Closing and latching speed controlled	Dual Regulating Valves	v	v
Adjustable Tube Arm	Reinforced Type	v	v
Hold-open	Hold open arm	O	O
Back-check	Adjustable at valve	O	O
High quality hydraulic fluid		v	v
Non-handed		v	v
With cover		x	x
Application	Standard	v	v
Guarantee/years		10 years	10 years

v = yes x = no O = option



CE certifire

EU430CE

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EU530 SERIES DOOR CLOSERS

EU530 DOOR CLOSER

Tested to EN 1154 $\boxed{48\frac{4}{2}113}$ *and CE Marked by Warrington APT Laboratories, UK*
Power Adjustable #2 to #4 by Position
EN 1634 Fire Tested



Optional Cover

GUARANTEE:
A free replacement ex-works of any closer proven defective by reason either of faulty manufacture or defect in materials.

POWER SHOE ARM BRACKET:
Designed to be reversed to increase final closing power by approximately 15%.

BACK CHECK:
Provides a cushioning effect when the door is forcibly thrown open but does not serve as substitute for a door stop.

DELAYED ACTION:
Provides prolonged closing time to assist passage of trolleys, wheel chairs, elderly people etc.

STANDARD FINISHES:
Silver, dark brown or gold, other finishes upon request

CE

certifire

10 Year Warranty

DATA AND FEATURES		530
Variable Closing Force	Spring strength (EN)	2 to 4
Standard doors	≤850mm ≤40kg	v
	≤950mm ≤60kg	v
	≤1100mm ≤80kg	v
	≤1250mm ≤100kg	v
Body dimensions (mm)	Length	204
	Height	55
	Projection	39
Arm	Standard	v
	Parallel	O
	Track (standard)	O
	Track (hold-open)	O
Rack and pinion	Heavy Duty	v
Power shoe arm bracket		v
Angle of opening		180º
Power Adjustable by spring		x
Power Adjustable by position		v
Sweep speed adjustable		v
Hold-open	Built-in	v
	Hold Open Arm	O
Back-check	Self-regulating	v
	Adjustable at valve	O
Delayed Action Adjustable		O
Non-handed		v
With Cover		O
Application	Regular (1)	v
	Parallel Arm (66)	O
	Transom (61)	v
Guarantee/years		10 years

v = yes x = no O = option

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EU 8320 SERIES CONCEALED DOOR CLOSERS

EU8320 CONCEALED DOOR CLOSER

The EU8320 is power adjustable by spring to suit closer sizes #2 to #4.
Tested to EN 1154 483113, CE Marked
EN 1634 Fire Tested by
Warrington APT Laboratories, UK



EU8320 Series

DATA AND FEATURES		8320
Variable Closing Force	Spring Strength (EN)	Adj 2 To 4
Standard Doors	≤850mm ≤40kg	v
	≤950mm ≤60kg	v
	≤1100mm ≤80kg	v
Body Dimensions (mm)	Length	210
	Height	53,5
	Projection	32
Arm	Standard	x
	Parallel	x
	Track (standard)	v
	Track (hold-open)	v
Rack and Pinion		x
Power Shoe Arm Bracket		x
Angle of Opening		120°
Power Adjustable by Spring		v
Power Adjustable by Position		x
Sweep Speed Adjustable		v
Latching Speed Adjustable		x
Hold-open	Built in	x
	Hold Open Arm	x
Back Check	Self-regulating	x
	Adjustable at Valve	x
Delayed Action Adjustable		x
Non-handed		v
Guarantee/years		10 years

v = yes x = no O = option

GUARANTEE:
A free replacement ex-works of any closer proven defective by reason either of faulty manufacture or defect in materials.

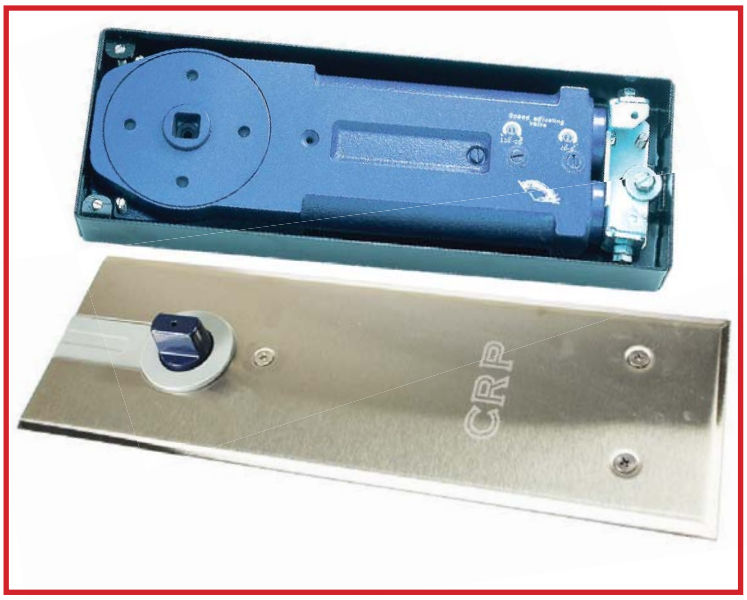
STANDARD FINISHES:
Silver, dark brown or gold, other finishes upon request

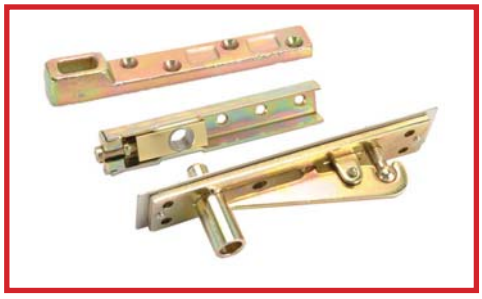
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10 Year Warranty

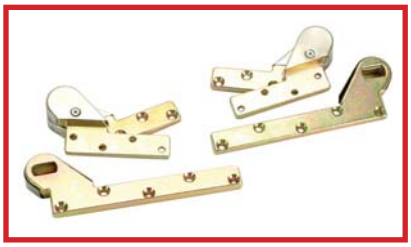
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EU8840 SERIES FLOOR HINGES





NSA8840
Standard Strap, Top and Bottom Pivot (NSA)



OP8840 Offset Pivots

GUARANTEE:
A free replacement ex-works of any closer proven defective by reason either of faulty manufacture or defect in materials.

COVER PLATE FINISHES:
Stainless Steel or Polished Brass

EU8840 SERIES FLOOR HINGES

Tested to EN 1154 383113 384113
by Warrington APT Laboratories UK
Power #2, #3, #4, #5
EN 1634 Fire Tested

DATA AND FEATURES		8840
Variable Closing Force	Spring Strength (EN)	2 TO 5
Standard doors	≤850mm ≤70kg	8842 (Fixed)
	≤950mm ≤105kg	8843 (Fixed)
	≤1100mm ≤150kg	8844 (Fixed)
	≤1250mm ≤200kg	8845 (Fixed)
Body Dimensions (mm)	Length	306
	Width	108
	Thick	40
Arm	Standard	v
	Offset	O
Cam-Action		v
Angle of Opening		130°
Sweep Speed Adjustable		v
Latching Speed Adjustable		v
Hold-open	Without Hold Open	O
	at 90° Hold Open	v
	at 105° Hold Open	O
Back Check	Self-regulating	x
	Adjustable at Valve	O
Delayed Action Adjustable		O
Non-handed		v
Guarantee/years		10 years

v = yes x = no O = option

CE

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10 Year Warranty

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CE MARKING GUIDE FOR HINGES

EN 1935 classifies hinges using a 8 digit coding system.Each digit refers to a particular feature measured against the standard's performance requirements.

Digit 1 - Category of use

Grade 1 - Low frequency of use by people with a high incentive to exercise care and with a small chance of accidents occurring or of misuse.
Grade 2 - Medium frequency of use by people with some incentive to exercise care but where there is some chance of accidents occurring or of misuse.
Grade 3 - High frequency of use by public and others with little incentive to exercise care and with a high chance of accidents occurring or of misuse.
Grade 4 - For use on doors which are subject to frequent violent usage.

4
1-4

Digit 2 - Durability/Number of Test Cycles

GRADE	1	2	3	4	5	6	7	8	9
CYLCES	2.500	5.000	10.000	25.000	50.000	100.000	200.000	500.000	1.000.000

7
1-9

Digit 3 - Test Door Mass

GRADE	1	2	3	4	5	6	7	8	9
up to	20 kg	40 kg	60 kg	80 kg	100 kg	120 kg	160 kg	299 kg	259 kg

6
1-9

Digit 4 - Fire Behaviour

Grade 0: Not suitable for use on fire/smoke door assemblies.
Grade 1: Suitable for use on fire/smoke resisting door assemblies, subject to satisfactory assessment of the hardware item relative to the performance of the specified fire/smoke resisting door assembly.

1
0/1

Digit 5 - Safety In Use

Grade 0: No defined safety performance
Grade 1: Satisfies the safety in use requirements contained in the "Construction Products Directive" issued by the EU.

1
0/1

Digit 6 - Corrosion resistance

GRADE	0	1	2	3	4
CORROSION RESISTANCE	No Defined	Mild	Moderate	High	Very High

4
0-4

Digit 7 - Security Burglar Resistance

Grade 0: Not suitable for use on burglar-resistant door assemblies
Grade 1: suitable for use on burglar-resistant door assemblies, subject to satisfactory assessment of the contribution of the hinges to the burglar resistance of specified burglar-resistant door assemblies. Such assessment is beyond the scope of the European Standard.

0
0/1

Digit 8 - Hinge Grade

Fourteen grades of hinge are identified in this European Standard.

13
1-14

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EU 6800 SERIES HINGES

All hinges are tested to EN1935 Grade 13 and are CE Marked.



BB6801 CE



BB6802 CE



BB6803 CE

MODEL	SIZE (mm)	BASE MATERIAL	EN1935 GRADE
BB6801	101,6 X 76,2 X 3	Stainless Steel	13
BB6802	101,6 X 89 X 3	Stainless Steel	13
BB6803	101,6 X 101,6 X 3	Stainless Steel	13

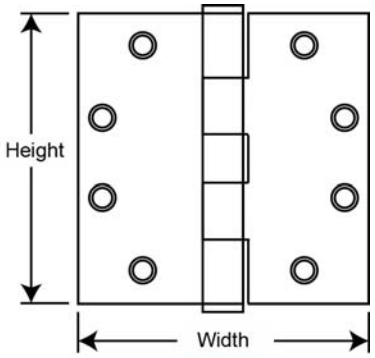
BASIC INFORMATION

Types of Hinges:

Full Mortice – Both leaves are morticed. One leaf on the frame and one on the door.

FEATURES:

- Five Knuckle ball bearing hinges
- Available in Grade 304 and 316 Stainless Steel
- Template drilled
- Suitable for wood and metal doors
- Tested for En1935:2002 Grade 13 and CE Marked
- Maximum door weight up to 120kgs
- Machine Screws available upon request



Determining the number of hinges needed:

Generally there should be 1 hinge for every 762mm of door height. Refer to table below for quick reference.

HEIGHT OF DOOR	NUMBER OF HINGES
1524mm or below	2
1549,4mm – 2311,4mm	3
2311,4mm – 3048mm	4

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BUILDERS HARDWARE

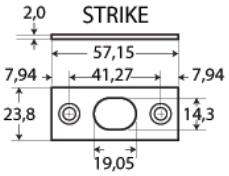
MF6341 (previously ULFB634)

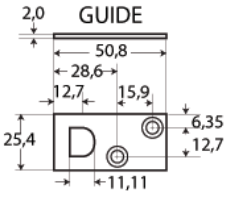
Solid Brass Commercial Manual Flush Bolt

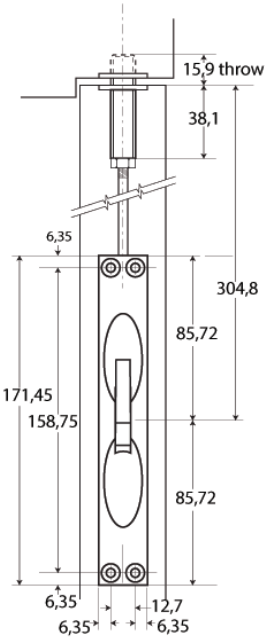
- *Non-handed*
- *Bolt tip is 12,7mm Diameter*
- *Optional Rod lengths available*

  457,2mm
  609,6mm
  914,4mm
  1.219,2mm
- *Architectural finishes available*







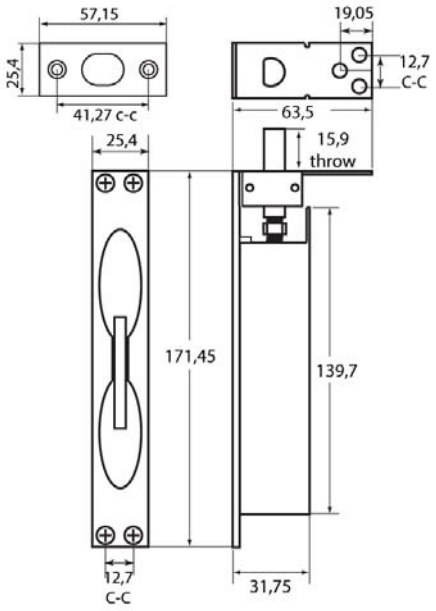


WF6341 (previously WFUL634)

Solid Brass Commercial Wood Lever Extension Flush Bolt

- *Commercial Type*
- *15,9mmThrow*
- *Especially designed for wood or composite doors*
- *Architectural finishes available*



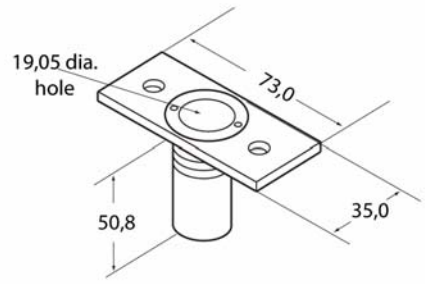


DPSTRK1

Brass Dustproof Strike

- *Spring tension calibrated for positive closing and eliminates binding*
- *Can be locked in up position*





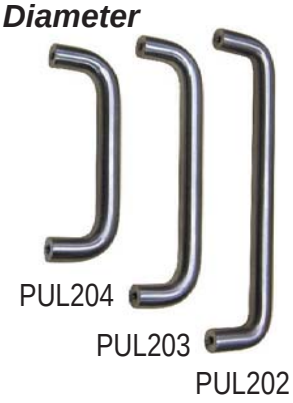
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BUILDERS HARDWARE

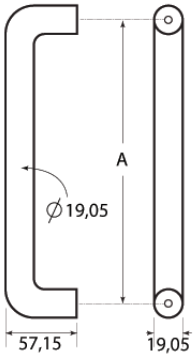
PUL202, PUL203, PUL204

Solid Bar Round Pulls 19,05mm Diameter

- *Stainless Steel, Brass and Aluminum Material*
- *Type 1 Thru-Bolt Mount for 44,45mm thick doors*
- *Individually packed*
- *Easy installation*
- *Architectural finishes available*



ITEM	A (mm)
PUL202	254
PUL203	203,2
PUL204	152,4



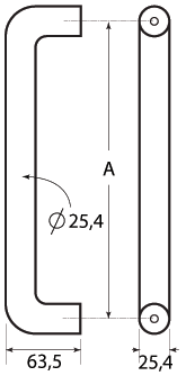
PUL200, PUL201

Solid Bar Round Pulls 25,4mm Diameter

- *Stainless Steel, Brass and Aluminum Material*
- *Type 1 Thru-Bolt Mount for 44,45mm thick doors*
- *Individually packed*
- *Easy installation*
- *Architectural finishes available*



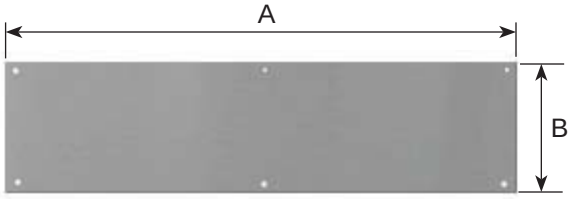
ITEM	A (mm)
PUL200	254
PUL201	203,2



PSPL3515, PSPL4016

Push Plates

- *Individually packed with protective film and screws*
- *Easy installation*
- *Thickness: 1,27mm*
- *Architectural finishes available*

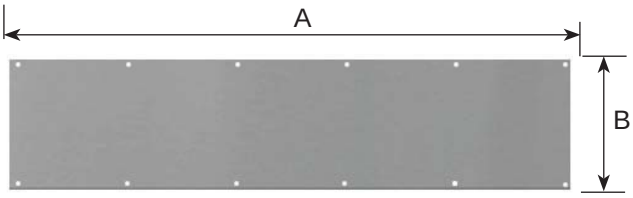


ITEM	A (mm)	B (mm)
PSPL3515	381	88,9
PSPL4016	406,4	101,6

BKICK834, BKICK1034, BKICK1046

Metal Kick Plates

- *Packed with #6 x ⅝" screws*
- *Thickness: 1,27mm*
- *Architectural finishes available*



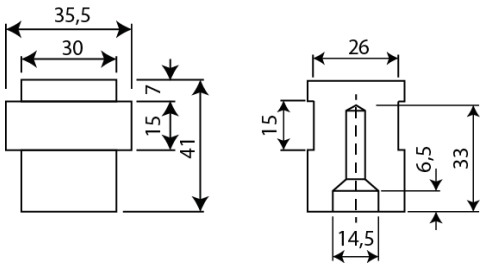
ITEM	A (mm)	B (mm)
BKICK834	863,6	203,2
BKICK1034	863,6	254
BKICK1046	1168,4	254

EUS-03

Floor Mount Door Stop

- *Stainless Steel Material*





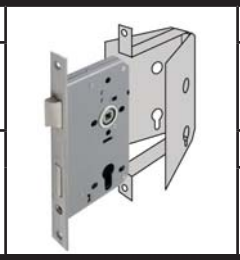
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DOOR HARDWARE PROTECTION KITS

Interdens ® is an Intumescent material made from mono ammonium phospate (MAP). When the hardware morticed into the fire rated door set is unprotected, it affects the performance of the door set. Interdens ® protects and enhances the fire resistance of timber and timber-based materials. It limits the combustion of timber from the heat generated by the metal parts touching the timber. When exposed to fire, Interdens® rapidly produce a large quantity of micro porous heat insulating foam which protects the timber material from the heat.

IMPORTANT NOTICE

The installation must comply with specifications and testing carried out in accordance with EN 1634 in order to guarantee the fire resisting properties of the door. The applicable national and international guidelines, standards, approvals and other relevant regulations with regard to smoke control and fire resistance also have to be taken into consideration.

PROD CODE	PROFILE	DESCRIPTION	STANDARD COLOURS	UOM
MORTICE LOCK CASES				
		LOCK KITS - 30 & 60 MIN FIRE RATING WITH SELF-ADHESIVE TAPE BACK		
ITLE-160X90-1MM		Lock Kit to suit standard DIN upright Mortice lock case To suit 55mm/60mm backset and 72 centres Supplied as 1 part kit around lock body w/ S/A tape for easy installation	White	Per Lock
ITLE-160X90-2MM		LOCK KITS - 90 & 120 MIN FIRE RATING WITH SELF-ADHESIVE TAPE BACK Lock Kit to suit standard DIN upright Mortice lock case To suit 55mm/60mm backset and 72 centres Supplied as 1 part kit around lock body w/ S/A tape for easy installation	White	Per Lock
ANSI MORTICE LOCK CASES				
ITLA-160X90-1MM		ANSI LOCK KITS - 30 & 60 MIN FIRE RATING WITH SELF-ADHESIVE TAPE BACK Lock Kit to suit standard DIN upright Mortice lock case Supplied as 1 part kit around lock body w/ S/A tape for easy installation	White	Per Lock
ITLA-160X90-2MM		ANSI LOCK KITS - 60 & 120 MIN FIRE RATING WITH SELF-ADHESIVE TAPE BACK Lock Kit to suit standard DIN upright Mortice lock case Supplied as 1 part kit around lock body w/ S/A tape for easy installation	White	Per Lock
STRIKE PLATE KITS				
ITSP-160X90-1MM		Strike plate kit to suit standard ANSI Mortice lock case Supplied as 1 part kit around lock body w/ S/A tape for easy installation	White	Per Lock
ITSP-160X90-2MM		Strike plate kit to suit standard ANSI Mortice lock case Supplied as 1 part kit around lock body w/ S/A tape for easy installation	White	Per Lock
FLUSH BOLT KITS				
ITFL-160X90-1MM ITWFL-160X90-1MM		Flush Bolt Kit to suit 200 x 19mm Flush Bolt Supplied as 1 part kit around lock body w/ S/A tape for easy installation	White	Per FB
ITFL-160X90-2MM ITWFL-160X90-2MM		Flush Bolt Kit to suit 200 x 19mm Flush Bolt Supplied as 1 part kit around lock body w/ S/A tape for easy installation	White	Per FB
HINGE KITS - 90 & 120 MIN FIRE RATING WITH SELF-ADHESIVE TAPE BACK				
ITH-102X76-2MM		Hinge Kit to suit 102 x 76mm (Supplied as 2 pcs of 100 x 30mm)	White	Per Hinge
ITH-102X89-2MM		Hinge Kit to suit 102 x 89mm (Supplied as 2 pcs of 100 x 36mm)	White	Per Hinge
ITH-102X102-2MM		Hinge Kit to suit 102 x 102mm (Supplied as 2 pcs of 100 x 42mm)	White	Per Hinge
DOOR CLOSER KITS				
		DOOR CLOSER KITS - TO SUIT POWER SIZE 1 - 3		
ITDC-SZ123-FD3060		Door Closer Kit FD30 - 1mm thick 2-Part Kit: 1mm around Door Closer Body and 1mm around Top Channel with S/A tape	White	Per Closer
ITDC-SZ123-FD90		Door Closer Kit FD60 - 2mm thick 2-Part Kit: 2mm around Door Closer Body and 2mm around Top Channel with S/A tape	White	Per Closer
		DOOR CLOSER KITS - TO SUIT POWER SIZE 3 - 5		
ITDC-SZ225-FD3060		Door Closer Kit FD60 - 1mm thick 2-Part Kit: 1mm around Door Closer Body and 1mm around Top Channel with S/A tape	White	Per Closer
ITDC-SZ225-FD90		Door Closer Kit FD90 - 2mm thick 2-Part Kit: 2mm around Door Closer Body and 2mm around Top Channel with S/A tape	White	Per Closer

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