

**FALCON®**

Exit devices



# Table of contents

The Falcon® difference	3	Delayed egress system components	34
The Falcon 24 and 25 Series	5	Application and wiring	35
25-R Series	6	Electric lock or unlock trim	36
F-25-R Series	7	Exit alarm	37
25-V Series	8	Device monitoring	38
F-25-V Series	9	Power supply	39
25-M Series	10	Electrical options summary	40
F-25-M Series	11	UL Listed fire exit hardware	41
25-C Series	12	1690 Concealed vertical rod touchbar device	46
F-25-C Series	13	1790 Rim touchbar device	47
25 Series accessories and options	14	19-R Series non-handed rim device	48
24-R Series	20	F-19-R Series non-handed rim device	49
F-24-R Series	21	19-V Series non-handed vertical rod device	50
24-V Series	22	F-19-V Series non-handed vertical rod device	51
F-24-V Series	23	1990 Series concealed vertical rod crossbar device	52
24-C Series	24	20 Series grade 1 exit device	53
F-24-C Series	25	2090 Series rim crossbar device	54
24 Series accessories and options	26	Power supply	62
Motorized electric latch retraction	32		

# The Falcon<sup>®</sup> difference

Safety, security and uncompromising value

At Falcon<sup>®</sup>, we know that every product you sell not only has to meet local building codes, but also your expectations for performance and quality. We take your expectations seriously, and that's why we build our touch bars to deliver durability, convenience and unmatched value. After all, we've built our reputation on the same standards that you have – providing quality products at a reasonable price delivered on time. It's the way we do business and it's what makes Falcon exits a powerful choice no matter what your project.

# Falcon exit devices

## Architectural push pads

## Commercial push pads



### 24 Series

### 25 Series

### 19 Series

### 1690/1790

Selling features	<ul style="list-style-type: none"> <li>• Maximum flexibility in a variety of applications</li> <li>• Wide range of features and options</li> <li>• Patent pending deadlocking technology</li> </ul>	<ul style="list-style-type: none"> <li>• Maximum flexibility in a variety of applications</li> <li>• Wide range of features and options</li> <li>• Patent pending deadlocking technology</li> </ul>	<ul style="list-style-type: none"> <li>• Lowest cost most dependable light-duty exit</li> <li>• Large trim selection</li> <li>• Standard deadlocking</li> </ul>	<ul style="list-style-type: none"> <li>• Hurricane rated option</li> <li>• Wide range of electrical options</li> <li>• Durable design</li> </ul>
	<ul style="list-style-type: none"> <li>• Frequent traffic</li> <li>• Offices, churches, hospitality, retail, education, healthcare</li> <li>• Interior, exterior, new construction, retro-fit</li> </ul>	<ul style="list-style-type: none"> <li>• Frequent traffic</li> <li>• Offices, churches, hospitality, retail, education, healthcare</li> <li>• Interior, exterior, new construction, retro-fit</li> </ul>	<ul style="list-style-type: none"> <li>• Moderate traffic</li> <li>• Commercial, multi-family, office, retail</li> <li>• Interior, exterior, retro-fit</li> </ul>	<ul style="list-style-type: none"> <li>• Moderate traffic</li> <li>• Commercial, multi-family, office, retail</li> <li>• Interior, exterior, retro-fit</li> </ul>
	<ul style="list-style-type: none"> <li>• Rim, SV, CV, M</li> <li>• 6 functions /9 finishes</li> <li>• 4 lever designs</li> <li>• 10-year warranty</li> </ul>	<ul style="list-style-type: none"> <li>• Rim, SV, CV, M</li> <li>• 6 functions /9 finishes</li> <li>• 4 lever designs</li> <li>• 10-year warranty</li> </ul>	<ul style="list-style-type: none"> <li>• Rim, SV</li> <li>• 7 functions /4 lever designs</li> <li>• 3 finishes</li> <li>• 10-year warranty</li> </ul>	<ul style="list-style-type: none"> <li>• CV = 1690/Rim = 1790</li> <li>• 4 functions/7 finishes</li> <li>• 4 length options</li> <li>• 10-year warranty</li> </ul>
Applications				
Device options				

## Crossbars



### 1990

### 2090

Selling features	<ul style="list-style-type: none"> <li>• Classic industry look</li> <li>• Balanced appearance, dependable performance and economical pricing</li> <li>• Hardened steel latches</li> <li>• Adjustable strike to ensure safety, security and smooth operation</li> </ul>	<ul style="list-style-type: none"> <li>• Classic looks in a rim device</li> <li>• Designed for high use and abuse</li> <li>• 1/2" inch steel latchbolt</li> <li>• Surface mounted strikes for full frame or blade type stops</li> </ul>
	<ul style="list-style-type: none"> <li>• Light traffic</li> <li>• Commercial, multi-family, office, retail</li> <li>• Interior, exterior, retro-fit</li> </ul>	<ul style="list-style-type: none"> <li>• Light traffic</li> <li>• Commercial, multi-family, office, retail</li> <li>• Interior, exterior, retro-fit</li> </ul>
	<ul style="list-style-type: none"> <li>• CV</li> <li>• 4 functions/10 finishes</li> <li>• 2 length options</li> <li>• 10-year warranty</li> </ul>	<ul style="list-style-type: none"> <li>• Rim</li> <li>• 4 functions/10 finishes</li> <li>• 2 length options</li> <li>• 10-year warranty</li> </ul>
Applications		
Device options		

# The Falcon 24 and 25 Series

**The perfectly simple, tougher than nails, costs less than you think, fits anywhere exit device.**

Offices, banks, assisted living facilities, retail stores and other commercial buildings have constant traffic, so door hardware must be able to take continual use and abuse. The Falcon 24 and 25 Series exit devices fill the bill with some of the toughest, most reliable performance in the business. A host of features makes this a smart solution, like a choice of an A or B label fire rating, electrified and panic options, and a full complement of trims. Sleek, streamlined styling and a choice of wide (25 Series) and narrow stile (24 Series) device applications means a smart solution for your building design, as well as its use. And since they're backed by one of the best names in the business, you can be sure you're getting the utmost value, reliability and durability.

## Features

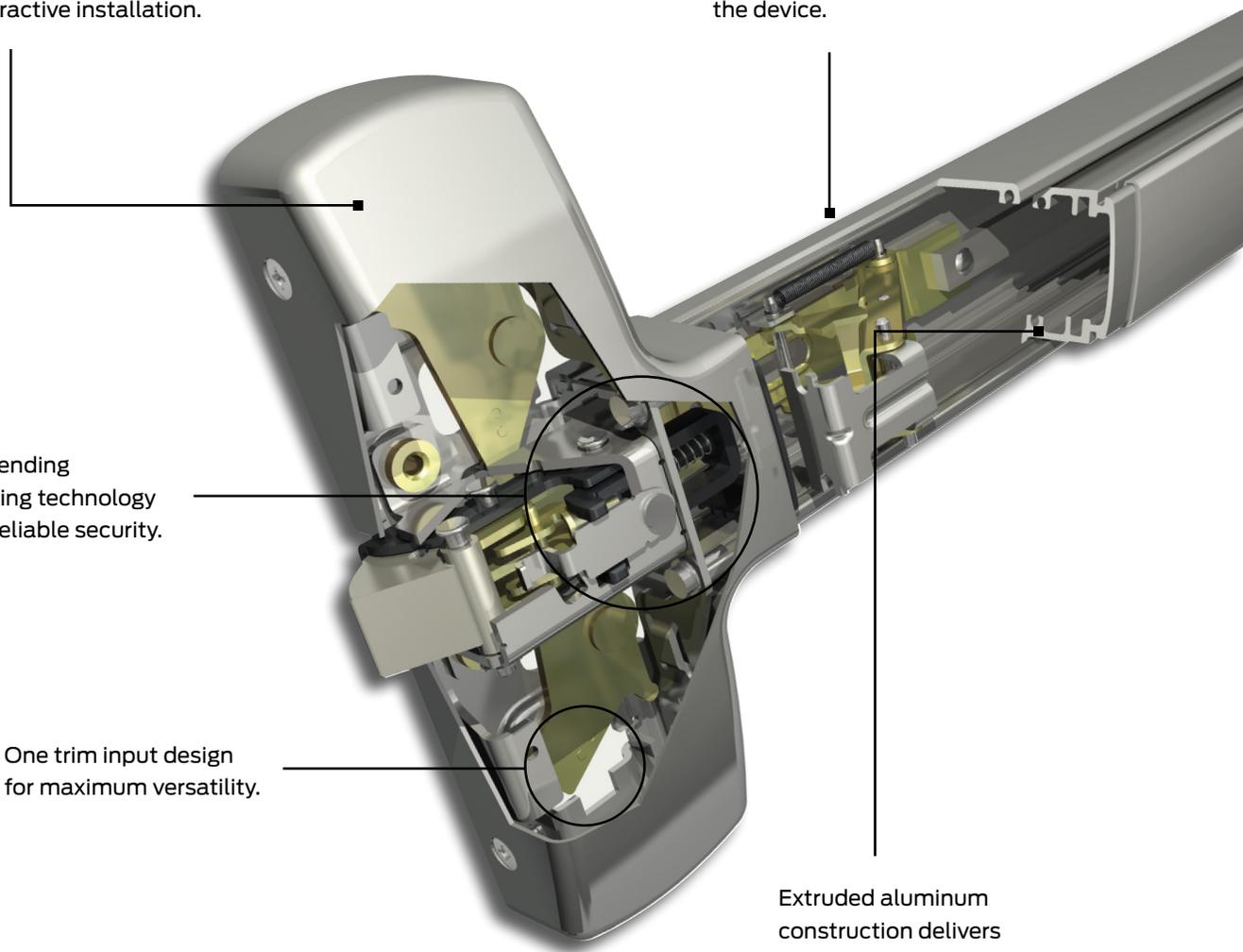
Streamlined design includes flush-end cap for clean lines and a more attractive installation.

Clean design with no exposed screws or rivets on the back of the device.

Patent-pending deadlocking technology ensures reliable security.

One trim input design for maximum versatility.

Extruded aluminum construction delivers greater strength and impact resistance.



# 25-R Series

## Rim device

### Panic exit hardware

The Falcon 25-R Series rim device meets the demanding requirements of high traffic installations with a single-point, rim type latch and a streamlined touch bar design. This device can also be electrified for maximum ease of use and accessibility.



299 Strike



2789 Dogging key



Cylinder dogging

### Single door application

Device	Door size	Door strike	Door stile (in)	Min door opening width
25-R	3'	299	4"	2' 7 1/2"
		264	3 7/8"	2' 7 3/8"
		1439	3 1/4"	2' 6 3/4"
		1606	3 5/8"	2' 7 1/8"
25-R	4'	299	4"	3' 1 1/2"
		264	3 7/8"	3' 1 3/8"
		1439	3 1/4"	3' 3/4"
		1606	3 5/8"	3' 1 1/8"

### Double door application

Device	Door size	Strike x mullion	Door stile (in)	Min door opening width
25-R	3'	299 x 2923	4 1/8"	2' 7 1/2"
		299 x 4023	4 3/8"	2' 7 1/2"
		264 x 2923	4"	2' 7 3/8"
		264 x 4023	4 1/4"	2' 7 3/8"
		1439 x 2923	3 7/8"	2' 7 1/4"
		1439 x 4023	4 1/8"	2' 7 1/4"
		1606 x 2923	4 1/4"	2' 7 1/8"
		1606 x 4023	4 1/2"	2' 7 1/8"
25-R	4'	299 x 2923	4 1/8"	3' 1 1/2"
		299 x 4023	4 3/8"	3' 1 1/2"
		264 x 2923	4"	3' 1 3/8"
		264 x 4023	4 1/4"	3' 1 3/8"
		1439 x 2923	3 7/8"	3' 1 1/4"
		1439 x 4023	4 1/8"	3' 1 1/4"
		1606 x 2923	4 1/4"	3' 1 1/8"
		1606 x 4023	4 1/2"	3' 1 1/8"
25-Vx 25-R	3'	1609	3 1/2"	2' 7 5/8" for 3 1/2" Min stile
25-Vx 25-R	4'	1609	3 1/2"	3' 1 5/8" for 3 1/2" Min stile

### Specifications

Hand:	Non-handed
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	299 strike standard (see page 15 for additional info)
Latchbolt:	Stainless steel, 3/4" throw
Deadlocking latchbolt:	Standard
Dogging feature:	Half turn hex dogging standard. No threaded parts to wear out
Cylinder dogging:	Specify "CD" prefix. Uses 1 1/8" long mortise cylinder with standard cam
Double cylinder – classroom security:	Available with L function for 25-R-L less dogging and F-25-R-L devices only. Specify handing. Cylinders sold separately. See price book for compatible cylinder options.
Stock sizes:	See chart to left; cut to size in the field
Doors:	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4".
Projections:	2 3/4" maximum, 2" dogged
Mounting height:	40 1/4" from CL to finished floor
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available
Fasteners:	All mounting screws are concealed, sheet metal screws and machine screws standard.
Sex bolts:	Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 8 – 425 (#10-24) SNB. For devices with trim, specify 2 – 425 (#10-24) SNB.
ANSI:	Certified ANSI A156.3 grade 1 standards
Center case and working parts:	Center case is heavy wrought and sintered metal parts
Shim kits:	For glass lite applications; 1/4" thick, specify SK25-RM
579 Strike retrofit kit:	Consult factory

# F-25-R Series

## Rim device

### Fire exit hardware

The Falcon F-25-R Series rim device combines sleek styling and durability with the protection of a fire-rated device. The F-25-R also features a single-point, rim type latch and can be electrified.



299F Strike



499F Strike



### Single door application

Device	Door size	Door strike	Min stile (in)	Min door opening width
F-25-R	3'	299-F	4"	2' 7 1/2"
F-25-R	4'	299-F	4"	3' 1 1/2"

### Double door application

Device	Door size	Door strike	Min stile (in)	Min door opening width
F-25-R	3'	499-F x F-4023	4 1/2"	2' 7 5/8"
F-25-R	4'	499-F x F-4023	4 1/2"	3' 1 5/8"

### Specifications

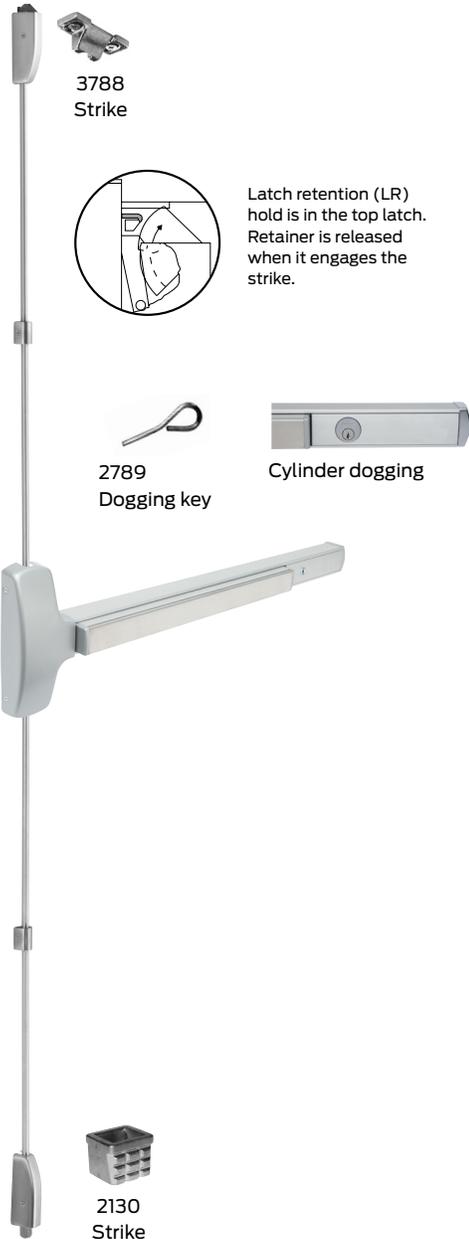
Hand:	Non-handed
UL:	"A" label (3 hr.); 4'0" x 8'0"; 8'0" x 8'0" with F-4023 mullion "B" label (1 1/2 hr.); 8'0" x 8'0"; with KRF4023
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	299F strike standard; 499F standard for pairs with mullion
Latchbolt:	Stainless steel, 3/4" throw
Deadlocking latchbolt:	Standard
Double cylinder – classroom security:	Available with L function for 25-R -L less dogging and F-25-R-L devices only. Specify handing. Cylinders sold separately. See price book for compatible cylinder options.
Stock sizes:	See chart to left; cut to size in the field
Doors:	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4".
Projections:	2 3/4" maximum
Mounting height:	40 1/4" from CL to finished floor
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed, sheet metal screws and machine screws standard
Sex bolts:	Required for use in EO applications when used with wood, composite or non-reinforced hollow metal doors. For EO device, specify 8 – 425 (#10-24) SNB. For devices with trim, specify 2 – 425 (#10-24) SNB.
ANSI:	Certified ANSI A156.3 grade 1 standards
Center case and working parts:	Center case is heavy wrought and sintered metal parts
Shim kits:	For glass lite applications; 1/4" thick, specify SK25-RM

# 25-V Series

## Vertical rod device

### Panic exit hardware

High-traffic applications demand the added strength and protection that comes with a vertical rod device. The Falcon F-25-V Series delivers with a surface-applied design that includes standard top latch and deadlocking. The sleek touch bar design ensures an attractive installation.



### Specifications

Hand:	Field reversible
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	3788 top strike is surface applied 2130 bottom strike is mortised into floor
Angle bracket	Use 4215 angle bracket in flush transom installations Allows use of standard 3788 strike
Latchbolt:	Top stainless steel 3/4" throw; bottom bolt, 1/2" throw
Deadlocking latchbolt:	Standard in top latch
Dogging feature:	Half turn hex dogging standard. No threaded parts to wear out.
Cylinder dogging:	Specify "CD" prefix. Uses 1 1/8" long mortise cylinder with standard cam.
Stock sizes:	See chart to below
Doors:	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4"
Projections:	2 3/4" maximum, 2" dogged
Stile :	See chart below
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed, sheet metal screws and machine screws available, specify AMS
Sex bolts:	Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 12 - 425 (#10-24) SNB. For devices with trim, specify 8 - 425 (#10-24) SNB.
ANSI:	Certified ANSI A156.3 grade 1 standards
Vertical rods:	Furnished to length based on a 40 1/4" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.
25-V-LBR:	Less bottom rod vertical device
Shim kits:	For glass lite applications; 1/4" thick, specify SK25-V

Device	Door size	Door strike	Min stile (in)	Min door opening width
25-V	3'	All	3 1/2"	2' 7 1/8"
25-V	4'	All	3 1/2"	3' 1 1/8"
25-V x 25-R	3'	1609	3 1/2"	2' 7 5/8" for 3 1/2" Min. Stile
25-V x 25-R	4'	1609	3 1/2"	2' 1 5/8" for 3 1/2" Min. Stile

# F-25-V Series

## Vertical rod device

### Fire exit hardware

When your application requires strength and durability, plus fire rated performance, the F-25-V Series is the total package. This surface-applied vertical rod device includes a sleek touch bar design with top latch and deadlocking standard.



### Specifications

Hand:	Field reversible
UL:	"A" Label (3 hr) - 8' x 10' double egress; 90 min. same egress - 8' x 10' Wood door; 20 min. 8' x 10'; 90 min. 8' x 9'. Consult door manufacturer for maximum rating.
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	3788 top strike is surface applied 2130 bottom strike is mortised into floor
Latchbolt:	Top stainless steel 3/4" throw; bottom bolt, 1/2" throw
Deadlocking latchbolt:	Standard in top latch
Latch retention hold:	Standard with top latch
Stock sizes:	See chart below
Doors:	1 3/4" thick, wood or metal; specify thickness if other than 1 3/4"
Projections:	2 3/4" maximum
Stile :	See chart below
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available
Fasteners:	All mounting screws are concealed. All machine screws (AMS) standard.
Sex bolts:	Required when used with wood, composite or non-reinforced hollow metal doors. For EO device, specify 12 - 425 (#10-24) SNB. For devices with trim, specify 8 - 425 (#10-24) SNB.
ANSI:	Certified ANSI A156.3 grade 1 standards
F-25-V:	Latch Retention (LR) top latch and bottom square bolt. 3788 strike top, 2130 flush strike bottom.
F-25-V-LBR:	Less bottom rod vertical device. Auxiliary fire pin required per pair. "A" Label (3 Hr) - 8' x 8'; 90 min. same egress - 8' x 8'.
Vertical rods:	Furnished to length based on a 40 1/4" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.
Shim kits:	For glass lite applications; 1/4" thick, specify SK25-V

Device	Door size	Door strike	Min stile (in)	Min door opening width
F-25-V	3'	All	3 1/2"	2' 7 1/8"
F-25-V	4'	All	3 1/2"	3' 1 1/8"

# 25-M Series

## Mortise device

### Panic exit hardware

The Falcon 25-M Series is the only device that pairs a tough, reliable exit device with our strongest mortise lock. The result is maximum safety and security in a single-point, mortise latch type device that also has an attractive touch bar design.



Device	Door size	Door strike	Door stile (in)	Min door opening width
25-M	3'	All	4 1/2"	2' 7 1/2"
25-M	4'	All	4 1/2"	3' 2"

### Specifications

Hand:	Handed.
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	1279 standard, F1280 and 1281 optional
Latchbolt:	3/4" throw
Deadlocking latchbolt:	Standard
Dogging feature:	Half turn hex dogging standard. No threaded parts to wear out.
Cylinder dogging:	Specify "CD" prefix. Uses 1 1/8" mortise cylinder with standard cam.
Mounting height:	40 1/4" from CL to finished floor. For mortise lock prep per ANSI A115.1-1990.
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only, not available with MEL), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
Stile:	4 1/2" minimum
Projection:	2 3/4" maximum, 2" dogged
Stock Sizes:	See chart
Doors:	1 3/4" thick, wood or metal; specify thickness if other than 1 3/4"
Fasteners:	All mounting screws are concealed, sheet metal screws and machine screws standard
Sex bolts:	Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 6 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB.
ANSI:	Certified ANSI A156.3 grade 1 standards
Mortise lock:	Heavy wrought lock case with investment cast or sintered steel parts. Lock face is forged brass—fits standard cutout. Locks are designed to fit standard ANSI A115.1 preparation for 1 3/4" doors. Deadlocked when auxiliary bolt is depressed 5/16".
Shim kits:	For glass lite applications; 1/4" thick, specify SK25-RM

# F-25-M Series

## Mortise device

### Fire exit hardware

The Falcon F-25-M Series delivers the safety of a fire-rated exit device with a choice of ratings. The F-25-M can be paired with a Falcon mortise lock, assuring a tough and secure lock for any opening requiring a high level of safety and security.



Device	Door size	Door strike	Door stile (in)	Min door opening width
F-25-M	3'	All	4 1/2"	2' 7 1/2"
F-25-M	4'	All	4 1/2"	3' 2"

### Specifications

Hand:	Handed
UL:	"A" label (3 hr.); 4'0" x 10'0" single doors; 8'0" x 10'0" pair of doors (F-25-M x F-25-V or F-25-C). "B" label (1-1/2 hr) with F1280 open back strike.
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	1279 standard; F1280 optional, B label (1 1/2 hr.)
Latchbolt:	Stainless steel, 3/4" throw
Deadlocking latchbolt:	Standard
Stock sizes	See chart
Doors:	1 3/4" thick, wood or metal; specify thickness if other than 1 3/4"
Projection:	2 3/4" maximum
Stile:	4 1/2" minimum
Mounting height	40 1/4" from CL to finished floor. For mortise lock prep per ANSI A115.1-1990.
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only, not available with MEL), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed. All machine screws (AMS) standard.
Sex bolts:	Required when used with wood, composite or non-reinforced hollow metal doors. For EO device specify 6 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB.
ANSI:	Certified ANSI A156.3 grade 1 standards
Mortise lock:	Heavy wrought lock case with investment cast or sintered steel parts. Lock face is forged brass—fits standard cutout. Locks are designed to fit standard ANSI A115.1 preparation for 1 3/4" doors. Deadlocked when auxiliary bolt is depressed 5/16".
Shim kits:	For glass lite applications; 1/4" thick, specify SK25-RM

# 25-C Series

## Concealed vertical rod device

### Panic exit hardware

Concealed vertical rods add strength to the door, while maintaining an attractive appearance. The Falcon 25-C Series concealed vertical rod device offers great value, clean styling and the security benefits of two-point latching. Falcon's patented center slide mechanism allows easy rod adjustment in the field.



### Specifications

Hand:	Field reversible
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	4188 mortised top, 2130 bottom standard, 4155
Latchbolt:	Top stainless steel $\frac{3}{4}$ " throw. Bottom bolt $\frac{1}{2}$ " throw.
Deadlocking latchbolt:	Standard in top latch
Latch retention hold:	Standard in top latch
Dogging feature:	Half turn hex dogging standard. No threaded parts to wear out.
Cylinder dogging:	Specify "CD" prefix. Uses $1\frac{1}{8}$ " long mortise cylinder dogging with standard cam.
Stock sizes:	See chart
Doors:	$1\frac{3}{4}$ " thick wood or metal. Specify thickness if other than $1\frac{3}{4}$ ".
Projection:	$2\frac{3}{4}$ " maximum, 2" dogged
Stile:	$3\frac{1}{2}$ " minimum ( $6\frac{1}{2}$ " minimum on wood doors)
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS
Sex bolts:	Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 6 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB.
ANSI:	Certified ANSI A156.3 grade 1 standards
25-C-LBR:	Less bottom rod concealed vertical device
Vertical rods:	Furnished to length based on $40\frac{1}{4}$ " horizontal CL to finished floor and a 7'0" door. Variations from these standards must be specified when ordering.
Patented centerslide:	For ease of adjustment
Shim kits:	Consult factory

Device	Door size	Door strike	Min stile (in)	Min door opening width
25-C	3'	All	$3\frac{1}{2}$ " ( $6\frac{1}{2}$ " for wood doors)	$2'7\frac{1}{8}$ "
25-C	4'	All	$3\frac{1}{2}$ " ( $6\frac{1}{2}$ " for wood doors)	$3'1\frac{1}{8}$ "

# F-25-C Series

## Concealed vertical rod device

### Fire exit hardware

The Falcon F-25-C Series device lets you combine the safety of a fire-rated device with the clean aesthetics that come with a concealed vertical rod installation. In-field adjustment is simple thanks to our patented center slide mechanism. Two-point latching ensures optimal security at the door.



### Specifications

Hand:	Field reversible
UL:	"A" label (3 hr.); 4'0" x 10'0" single doors; 8'0" x 10'0" pair of doors (F-25-M x F-25-V or F-25-C)
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	4188 mortised top, 2130 bottom standard
Latchbolt:	Stainless steel, 3/4" throw
Deadlocking latchbolt:	Standard
Stock sizes	See chart
Doors:	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4".
Projection:	2 3/4" maximum
Stile:	4" minimum
Mounting height	40 1/4" from CL to finished floor
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed. All machine screws (AMS) standard.
Sex bolts:	Required when used with wood, composite or non-reinforced hollow metal doors. For EO device specify 6 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB.
ANSI:	Certified ANSI A156.3 grade 1 standards
25-C-LBR:	Less bottom rod, auxiliary fire pin required per pair
Vertical rods:	Furnished to length based on 40 1/4" horizontal CL to finished floor and a 7'0" door. Variations from these standards must be specified when ordering.
Shim kits:	Consult factory

Device	Door size	Door strike	Min stile (in)	Min door opening width
25-C	3'	All	4" (6 1/2" for wood doors)	2' 7 1/8"
25-C	4'	All	4" (6 1/2" for wood doors)	3' 1 1/8"

# 25 Series

## Accessories and options



F-4023 Shown

### Removable mullion

- The 2923, F4023, 4023, KRF-4023 and KR-4023 steel mullions are for use with the 25-R devices on double door openings.  
Advantage: Increased security and tighter closure. Minimizes door warpage and sag. Regulates the flow of in-and-out traffic
- Falcon removable mullions are easily removed and reinstalled for full width access
- Rim devices are used on both leaves, attaining a perfectly symmetrical opening
- The mullion assembly consists of a mullion, top and bottom mounting brackets and a screw pack
- The F4023 and KRF-4023 fire-rated mullions also include four stabilizer blocks as required for labeled installations
- Strikes are not furnished with the mullion. Please see page 15 for strike information
- Mullions may be cut on the job for doors under stock lengths
- KR Mullions require 1 1/4" mortise cylinder with standard A cam

### Mullion features

- Mullion fittings - ductile iron
- F4023, 4023, KRF-4023 and KR-4023 - 2" x 3" x height
- 2923 mullion - 1 1/2" x 2 1/2" x height
- Prime coat only
- 7' or 8' door opening standard, other door opening as specified

### Cylinders

- Cylinder supplied only when specified
- Cylinders keyed different

### Sex bolts

- 325 (1/4"-20 thread)
- 425 (#10-24 thread)

### Dummy touch bars

- Active and Inactive models only. Active model offered with RX or RX/KOR. Consult factory for details
- To order, specify 250DT X finish, or 250DT X finish X active touch bar

### (F)25-R Double door application

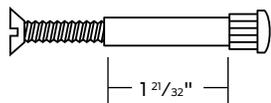
Strike	Installed with mullion	Min stile	B*
299	2923	4 1/8"	3"
299	4023	4 3/8"	3 1/4"
499-F	F-4023	4 1/2"	3 5/16"
264	2923	4"	2 7/8"
264	4023	4 1/4"	3 1/8"
1439	2923	3 7/8"	2 3/4"
1439	4023	4 1/8"	3"
1606	2923	4 1/4"	2 5/8"
1606	4023	4 1/2"	2 7/8"
1609	Surface 25-V	4"	2 3/8"

### Cylinder reference

Device	Trim	Standard key cylinder	IC key cylinder
25 Series device	Cylinder dogging	985 - 1 1/8" Mortise (#4 cam)	C987 - 1 3/8" Mortise #5 cam (Blocking ring plus security collar must equal 1/4" thick)
25 Series device Rim & surface vertical	Cylinder only (NL - OP)	951- Rim cylinder	953 - Rim cylinder
25 Series device Mortise	Cylinder only (NL - OP)	* 986 - 1 1/4" Mortise (#4 cam)	** C987 - 1 3/8" Mortise (#5 cam)
25 Series trims	L, K, TP, NL	986 - 1 1/4" Mortise (#4 cam)	C987 - 1 3/8" Mortise (#5 cam)
25 Series trims concealed	718C, 718NL	986 - 1 1/4" Mortise cylinder	N/A
KR4023 mullion	N/A	986 - 1 1/4" Mortise cylinder (use Schlage B520-731 cam or similar)	C987 (#5 cam, 1/8" blocking ring)

\*Cylinder must be spaced off of the door a minimum of 1/4" via a recessed blocking ring

\*\* Cylinder must be spaced off of the door a minimum of 3/8" via a recessed blocking ring.



# 25 Series

## Strikes and accessories

### Strikes

#### For rim devices



**264**  
2 7/8" x 1 1/4" x 9/16"  
(H x W x D)  
Panic device only.



**299**  
7 7/8" x 1 1/4" x 13/16"  
(H x W x D)  
Panic device only.



**299F**  
2 7/8" x 1 1/4" x 13/16"  
(H x W x D)



**499F**  
3 5/8" x 1 1/2" x 16/16"  
(H x W x D)



**1439 Blade stop**  
1 3/4" x 1 7/8" x 1/2"  
(H x W x D)  
Panic device only.



**1606**  
2 7/8" x 1 3/8" x 3/8"  
(H x W x D)  
Panic device only.



**1609**  
3 1/4" x 1 1/16" x 3/8"  
(H x W x D)  
Requires coordinator.  
Panic device only.

#### For surface and concealed vertical rod devices



**2130**  
(F)25-V and (F)25-C  
standard bottom strike for  
grouting into concrete or  
masonry floors.



**3788**  
Furnished top  
of (F)25-V.



**4155**  
Optional strike.  
Panic device only.



**4188**  
Top strike for  
(F)25-C.

#### For mortise lock devices

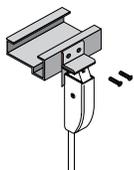


**1279**  
Closed strike used on  
single doors and on fire  
exit hardware doors with  
coordinator.



**F1280**  
Open back strike used on pairs of  
1 3/4" doors without astragal or  
coordinator. Can be used on stock  
hollow metal doors. F1280 "B" label  
(1 1/2 hr.) stainless steel strike  
available.

### Accessories



**4215**  
Angle bracket for flush transom applications.  
Does not require elimination of latch retention  
feature. Accepts 3788 strike for 25-V device.

#### Surface vertical extension rods

Extension rods are available in 12", 24" and 36" lengths in all finishes. Both ends tapped and all-thread included as connector.

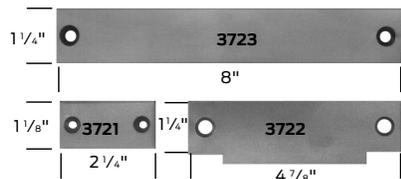


#### Concealed extension rods

Extension rods are available in 12", 24" and 36". Both ends have pressed-in, threaded inserts.



#### Filler Plates



#### 3721/ 3722/ 3723

Steel filler plates

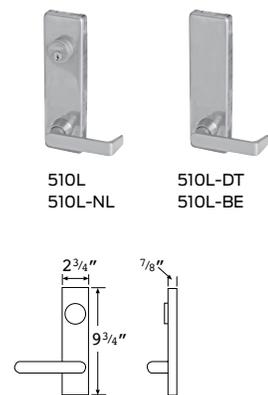
- 3721 Cylindrical lock front filler
- 3722 Strike filler - set no. SC for 161 cutout
- 3723 Mortise lock front filler
- 3722 Strike filler - set no. SM for 86 cutout

# 25 Series

## Trim designs

Functionality built into the trim, facilitating easy door preps, easy field retrofit and easy ordering.

### Lever trims (510L)



510L  
510L-NL

510L-DT  
510L-BE

### Lever designs



Avalon (AVA)  
Projection 3 1/4"



Quantum (QUA)  
Projection 3 1/4"



Dane (DAN)  
Projection 3"



Broadway (BRW)  
Projection 3 1/5"



Boardwalk (BRK)  
Projection 3 1/5"



Danish (DSH)  
Projection 2 9/16"



Latitude (LAT)  
Projection 3 1/16"



Longitude (LON)  
Projection 3 1/16"



Sutro (SUT)  
Projection 3 1/4"

All levers return to within 1/2" of door.

Escutcheon: 9 3/4" (H) x 2 3/4" (W) (specify handing) brass finish.

Protected by easily replaceable shear pin.

Lever is reversible, supplied RHR if not specified. For keyed functions, see page 14 for cylinder requirements.

### Vandal - resistant lever trims (511L)



Provides resistance to rotation, making damage of trim due to attack from the outside less likely.

Designed to operate normally after vandalism attempts without the need for maintenance personnel intervention.

- Heavy duty, vandal-resistant, ANSI A156.3 grade 1 security trim
- Lever deflects up to 22 ft-lb for a minimum of 10,000 vandal-resistant cycles
- Vandal resistance is present in both lever rotation directions
- After lever is fully deflected, lever stops rotating and a shear pin breaks at 70 ft-lb to prevent damage to unit
- Available on 25 rim, vertical, mortise, and concealed devices
- Retrofits all existing 25 trim without additional door prep
- Works with all electric lock and unlock functions
- Available in all finishes and lever designs including Avalon, Boardwalk, Broadway, Dane, Danish, Latitude, Longitude, Sutro, and Quantum

### Pull trims (512)



512TP

512NL

512DT

512TP-BE

### Delta (717)



717DT

Escutcheon: 16" x 2 3/4"

Grip: 6 1/4" C-C

Projection: 2 11/16"

Brass

For keyed functions, see page 14 for cylinder requirements.

### Knob trims (513K)



513K-DT  
513K-BE

513K  
513K-NL

Round ball knob

Escutcheon: 9 3/4" x 2 3/4"

Projection: 4"

Brass

For keyed functions, see page 14 for cylinder requirements.

### Cylinder only (NL-OP)

Key retracts latch bolt.  
Cylinder sold separately  
(see page 14).

# 25 Series

## Trim chart and finish chart

### Function

	Lock/ unlock	NL	DT	BE	FSA/ FSE
Lever (510)	510L	510L-NL	510-DT	510L-BE	510L-FSA 510L-FSE
Vandal-resistant lever (511)	511L	—	—	—	511L-FSA 511L-FSE
Pull trims (512)	512TP	512-NL	512DT	512TP-BE	512L-FSA 512L-FSE
Knob (513)	513K	513K-NL	513K-DT	513K-BE	513L-FSA 513L-FSE
Delta (717)	—	—	717DT	—	—

## 25 Series finishes

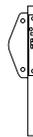
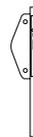
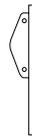
	Color	US number	BHMA number
	Brass, bright	US3	605
	Brass, satin	US4	606
	Bronze, satin	US10	612
	Bronze, aged	US11	643e*
	Nickel, satin	US15	619*
	Black, matte	US19	622*
	Chromium, bright	US26	625
	Chromium, satin	US26D	626
	Anodized aluminum	US28	628
	Stainless Steel, bright	US32	629
	Stainless Steel, satin	US32D	630
	Anodized duranodic	313AN	710

\*Available on select devices and trims

# 25 Series

## Types and functions

This page shows all 25 Series device and trim functions.

	Rim device ANSI type 1	Vertical rod device ANSI type 2	Mortise lock device ANSI type 3	Concealed vertical rod device ANSI type 8
<b>Functions (ANSI)</b>  <b>EO (01)</b> Exit only, no trim.	<b>(F)-25-R</b>  <b>25-R-EO</b>	<b>(F)-25-V</b>  <b>25-V-EO</b>	<b>(F)-25-M</b>  <b>25-M-EO</b>	<b>(F)-25-C</b>  <b>25-C-EO</b>
<b>DT (02)</b> Entrance by trim when actuating bar is locked down.	 <b>25-R-DT</b>	 <b>25-V-DT</b>	 <b>25-M-DT</b>	 <b>25-C-DT</b>
<b>NL (03)</b> Entrance by trim when latchbolt is retracted by key. Key removable only when locked.	 <b>25-R-NL</b>	 <b>25-V-NL</b>	 <b>25-M-NL</b>	 <b>25-C-NL</b>
<b>TP (05)</b> Entrance by thumbpiece. Key locks or unlocks thumbpiece.	 <b>25-R-TP</b>	 <b>25-V-TP</b>	 <b>25-M-TP</b>	 <b>25-C-TP</b>
<b>L or K (08)</b> Entrance by knob or lever. Key locks or unlocks knob.	 <b>25-R-L/K</b>	 <b>25-V-L/K</b>	 <b>25-M-L/K</b>	 <b>25-C-L/K</b>
<b>L(NL) or K(NL) (03)</b> Entrance by knob or lever when latchbolt is retracted by key. Lever/knob is rigid. Key removable only when locked.	 <b>25-R-L/K(NL)</b>	 <b>25-V-L/K(NL)</b>	 <b>25-M-L/K(NL)</b>	 <b>25-C-L/K(NL)</b>

# 25 Series

## Door application

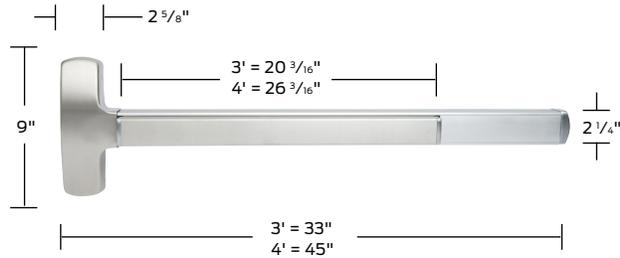
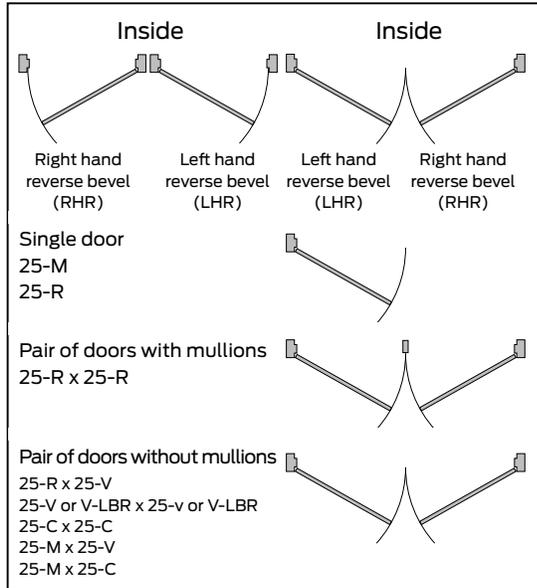
### Label doors

Models F-25-R, F-25-M, F-25-C and F-25-V are labeled for use as  Fire exit hardware.

### Door thickness

All devices and components supplied for 1 3/4" doors standard. Specify door thickness if other than 1 3/4".

### Door application chart



Product information and specifications contained in this catalog are subject to change without notice. Please consult the factory.

# 24-R Series

## Rim device

### Panic exit hardware

The Falcon 24-R Series narrow stile rim device allows for application versatility in high-traffic installations. Standard features include a single-point, rim type latch and a streamlined touch bar design. This device can also be electrified for maximum ease of use and accessibility.



### Single door application

Device	Door size	Door strike	Min stile (in)	Min door opening width
24-R	3'	299	3 1/2"	2' 7 1/2"
		264	3 3/8"	2' 7 3/8"
		1439	2 1/4"	2' 6 3/4"
		1606	2 3/4"	2' 7 1/8"
24-R	4'	299	3 1/2"	3' 1 1/2"
		264	3 3/8"	3' 1 3/8"
		1439	2 1/4"	3' 3/4"
		1606	2 3/4"	3' 1 1/8"

### Double door application

Device	Door size	Door strike	Min stile (in)	Min door opening width
24-R	3'	299 x 2923	3 1/2"	2' 7 1/2"
		299 x 4023	4"	2' 7 1/2"
		264 x 2923	3 3/8"	2' 7 3/8"
		264 x 4023	3 5/8"	2' 7 3/8"
		1439 x 2923	3 1/2"	2' 7 1/8"
		1439 x 4023	3 3/4"	2' 7 1/8"
		1606 x 2923	3 1/2"	2' 7 1/8"
		1606 x 4023	3 3/4"	2' 7 1/8"
24-R	4'	299 x 2923	3 1/2"	3' 1 1/2"
		299 x 4023	4"	3' 1 1/2"
		264 x 2923	3 3/8"	3' 1 3/8"
		264 x 4023	3 5/8"	3' 1 3/8"
		1439 x 2923	3 1/2"	3' 1 1/8"
		1439 x 4023	3 3/4"	3' 1 1/8"
		1606 x 2923	3 1/2"	3' 1 1/8"
		1606 x 4023	3 3/4"	3' 1 1/2"

### Specifications

Hand:	Non-handed
Functions:	24-EO (exit only) has all functions built in. Order trim with the device, or add it later (see trim selection chart on page 29).
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 29 for finishes)
Strikes:	299F strike standard. See page 27 for optional strikes.
Latchbolt:	Stainless steel, 3/4" throw
Deadlocking latchbolt:	Standard
Dogging feature:	Half turn hex dogging standard. No threaded parts to wear out.
Stock sizes:	See chart to left
Doors:	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4".
Projections:	2 3/4" maximum, 2" dogged
Mounting height:	40" from CL to finished floor
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed
Sex bolts:	Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 4 - 425 (#10-24) SNB and 2 - 325 (1/4"-20) SNB. For devices with trim, specify 4 - 425 (#10-24) SNB.
ANSI:	Certified ANSI A156.3 grade 1 standards.
Center case & working parts:	Wrought steel with heavy wrought and sintered metal parts
Shim kits:	For glass lite applications; 1/4" thick, specify SK24-R

# F-24-R Series

## Rim device

### Fire exit hardware

The Falcon F-24-R Series rim device combines sleek styling and durability with the protection of a fire-rated device. A narrow stile design allows for installation versatility. The F-24-R also features a single-point, rim type latch and can be electrified.



299F Strike



### Single door application

Device	Door size	Door strike	Min stile (in)	Min door opening width
F-24-R	3'	299-F	3 1/2"	2' 7 1/2"
F-24-R	4'	299-F	3 1/2"	3' 1 1/2"

### Double door application

Device	Door size	Door strike	Min stile (in)	Min door opening width
F-24-R	3'	299-F x F-4023	4"	2' 7 1/2"
F-24-R	4'	299-F x F-4023	4"	3' 1 1/2"

### Specifications

Hand:	Non-handed
UL:	"B" label (1 1/2 hr.); 4'0" x 8'0"
Functions	F-24-REO (Exit only) has all functions built in. Order trim with the device, or add it later. (see trim selection chart on page 29)
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 29 for finishes)
Strikes:	299F strike standard
Latchbolt:	Stainless steel, 3/4" throw
Deadlocking latchbolt:	Standard
Stock sizes:	See chart to left
Doors:	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4".
Projections:	2 3/4" maximum
Mounting height:	40" from CL to finished floor
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed. Furnished with all machine screws.
Sex bolts:	Required when used with wood, composite or non-reinforced hollow metal doors. For EO device, specify 4 - 425 (#10-24) SNB and 2 - 325 (1/4"-20) SNB. For devices with trim, specify 4 - 425 (#10-24) SNB.
ANSI:	Certified ANSI A156.3 grade 1 standards
Center case & working parts:	Investment-cast ferrous alloy with heavy wrought and sintered metal parts
Shim kits:	For glass lite applications; 1/4" thick, specify SK24-R

# 24-V Series

## Vertical rod device

### Panic exit hardware

High-traffic applications demand the added strength and protection that comes with a vertical rod device. The Falcon 24-V Series delivers with a surface-applied design that includes standard top latch and deadlocking. The narrow stile and sleek touch bar design ensure an attractive installation.



### Specifications

Hand:	Field reversible
Functions:	24-V-EO (exit only) has all functions built in. Order trim with the device, or add it later (see trim selection chart on page 29).
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 29 for finishes)
Strikes:	3788 top strike is surface applied, 2130 bottom strike is mortised into floor
Angle Bracket:	Use 4215 angle bracket in flush transom installations. Allow use of standard 3788 strike.
Latchbolt:	Top stainless steel, top latch $\frac{3}{4}$ " throw, bottom bolt $\frac{1}{2}$ " throw
Deadlocking latchbolt:	Standard with top latch
Latch retention hold:	Standard with top latch. On top latch.
Dogging feature:	Half turn hex dogging standard. No threaded parts to wear out.
Stock sizes:	See chart below
Doors:	1 $\frac{3}{4}$ " thick, wood or metal. Specify thickness if other than 1 $\frac{3}{4}$ " thick.
Projections:	2 $\frac{3}{4}$ " maximum, 2" dogged
Stile:	2 $\frac{1}{8}$ " minimum when used in pairs
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS
Sex bolts:	Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 8 - 425 (#10-24) SNB and 2 - 325 ( $\frac{1}{4}$ "-20) SNB. For devices with trim, specify 8 - 425 (#10-24) SNB.
ANSI:	Certified ANSI A156.3-2001 grade 1 standards
24-V:	Latch retention (LR) top latch and bottom square bolt. 3788 strike top, 2130 flush strike bottom.
24-V-LBR:	Less bottom rod vertical
Vertical rods:	Furnished to length based on a 40" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.
Shim kits:	For glass lite applications; $\frac{1}{4}$ " thick, specify SK24-V

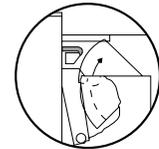
Device	Door size	Door strike	Min stile (in)	Min door opening width
24-V	3'	All	2 $\frac{1}{8}$ "	2' 7 $\frac{1}{4}$ "
24-V	4'	All	2 $\frac{1}{8}$ "	3' 1 $\frac{1}{4}$ "

# F-24-V Series

## Vertical rod device

### Fire exit hardware

When your application requires strength and durability, plus fire-rated performance, the F-24-V Series is the total package. This surface-applied vertical rod device includes a sleek touch bar design with top latch and deadlocking standard, as well as a narrow stile that fits where you need it to.



Latch retention hold is in the top latch. Retainer is released when it engages the strike. The door is in the closed position.

### Specifications

Hand:	Field reversible
UL:	"A" Label (3 hr) - double egress - 8' x 10'; 90 min. same egress - 8' x 10'. Wood door: 20 min. 8' x 10'; 90 min. 8' x 9'. Consult door manufacturer for maximum rating.
Functions:	F-24-V-EO (exit only) has all functions built in. Order trim with the device, or add it later (see trim selection chart on page 29).
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 29 for finishes)
Strikes:	3788 top strikes are surface applied, 2130 bottom strike is mortised into floor
Latchbolt:	Top stainless steel, top latch $\frac{3}{4}$ " throw, bottom bolt $\frac{1}{2}$ " throw
Latch retention hold:	Standard with top latch
Deadlocking latchbolt:	Standard with top latch
Stock sizes:	See chart below
Doors:	$1\frac{3}{4}$ " thick, wood or metal. Specify thickness if other than $1\frac{3}{4}$ " thick.
Projections:	$2\frac{3}{4}$ " maximum
Stile:	$2\frac{1}{8}$ " minimum when used in pairs
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed. All machine (AMS) standard.
Sex bolts:	Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 8 - 425 (#10-24) SNB and 2 - 325 ( $\frac{1}{4}$ -20) SNB. For devices with trim, specify 8 - 425 (#10-24) SNB.
ANSI:	Certified ANSI A156.3 grade 1 standards
F-24-V:	Latch retention (LR) top latch and bottom square bolt. 3788 strike top, 2130 flush strike bottom.
F-24-V-LBR:	Less bottom rod vertical device. Auxiliary fire pin required per pair. "A" Label (3 hr) - 8' x 8'; 90 min. same egress - 8' x 8'. Wood Door: 20 minute minimum - 8' x 8' openings. Consult door manufacturer for maximum rating.
Vertical rods:	Furnished to length based on a 40" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.
Shim kits:	For glass lite applications; $\frac{1}{4}$ " thick, specify SK24-V

Device	Door size	Door strike	Min stile (in)	Min door opening width
F-24-V	3'	All	$2\frac{1}{8}$ "	$2'7\frac{1}{4}$ "
F-24-V	4'	All	$2\frac{1}{8}$ "	$3'1\frac{1}{4}$ "

# 24-C Series

## Concealed vertical rod device

### Panic exit hardware

Concealed vertical rods add strength to the door, while maintaining an attractive appearance. The Falcon 24-C Series concealed vertical rod device offers great value, clean styling, a versatile narrow stile design and the security benefits of two-point latching. Falcon's patented center slide mechanism allows easy rod adjustment in the field.



### Specifications

Hand:	Field reversible or specify handing
Functions:	See trim selection chart on page 29. Delta trim only.
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 29 for finishes)
Strikes:	4188 mortised top and 2130 flush strike bottom, optional bottom 2126A and 4155
Latchbolt:	Top stainless steel, top latch $\frac{3}{4}$ " throw. Bottom bolt $\frac{1}{2}$ " throw.
Deadlocking latchbolt:	Standard with top latch
Latch retention hold:	Standard with top latch
Dogging feature:	Half turn hex dogging standard. No threaded parts to wear out.
Cylinder dogging:	Specify "CD" prefix. Uses $1\frac{1}{8}$ " long mortise cylinder dogging with standard cam.
Stock sizes:	See chart below
Doors:	$1\frac{3}{4}$ " thick, wood or metal. Specify if other than $1\frac{3}{4}$ " thick.
Projections:	$2\frac{3}{4}$ " maximum, 2" dogged
Stile:	$2\frac{1}{4}$ " minimum when used in pairs (6" minimum on wood doors)
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS
Sex bolts:	Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 2 - 425 (#10-24) SNB and 2 - 325 ( $\frac{1}{4}$ -20) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB.
ANSI:	Certified ANSI A156.3 grade 1 standards
24-V-LBR:	Less bottom rod concealed vertical device
Vertical rods:	Furnished to length based on 40" horizontal CL to finished floor and a 7'0" door. Variations from these standards must be specified when ordering.
Patented centerslide:	For ease of adjustment
Shim kits:	Consult factory

Device	Door size	Door strike	Min stile (in)	Min door opening width
24-C	3'	All	$2\frac{1}{4}$ " (6" for wood doors)	$2'7\frac{3}{8}$ "
24-C	4'	All	$2\frac{1}{4}$ " (6" for wood doors)	$3'1\frac{3}{8}$ "

# F-24-C Series

## Concealed Vertical Rod Device

### Fire Exit Hardware

The Falcon F-24-C Series device lets you combine the safety of a fire-rated device with the clean aesthetics that come with a narrow stile and concealed vertical rod installation. In-field adjustment is simple thanks to our patented center slide mechanism. Two-point latching ensures optimal security at the door.



### Specifications

Hand:	Field reversible
UL:	"A" Label (3 hr) - double egress - 8' x 10'; 90 min. same egress - 8' x 10'
Functions:	See trim selection chart on page 29. Delta trim only.
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 29 for finishes)
Strikes:	4188 mortised top, 2130 flush strike bottom
Latchbolt:	Top stainless steel, 3/4" throw. Bottom bolt 1/2" throw.
Latch retention hold:	Standard with top latch
Deadlocking latchbolt:	Standard with top latch
Stock sizes:	See chart below
Doors:	1 3/4" thick metal. Specify if other than 1 3/4" thick.
Projections:	2 3/4" maximum
Stile:	3 5/8" minimum when used in pairs (6" minimum on wood doors)
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed. All machine screws standard.
Sex bolts:	Required when used with wood, composite or non-reinforced hollow metal doors. For EO device specify 2 - 425 (#10-24) SNB and 2 - 325 (1/4"-20) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB.
ANSI:	Certified ANSI A156.3 grade 1 standards
F-24-C-LBR	Less bottom rod concealed vertical device. Auxiliary fire pin required per pair. "A" Label (3 hr) - 8' x 8'; 90 min. same egress - 8' x 8'.
Vertical rods:	Furnished to length based on 40" horizontal CL to finished floor and a 7'0" door. Variations from these standards must be specified when ordering.
Patented centerslide:	For ease of adjustment
Shim kits:	Consult factory

Device	Door size	Door strike	Min stile (in)	Min door opening width
F-24-C	3'	All	3 5/8" (6" for wood doors)	2' 7 3/8"
F-24-C	4'	All	2 1/4" (6" for wood doors)	3' 1 3/8"

# 24 Series

## Accessories and options



4023 Shown

### Removable mullion

- The 2923, 4023, KR4023 steel mullions are for use with the 24-R devices on double door openings. Advantage: Increased security and tighter closure. Minimizes door warpage and sag. Regulates the flow of in-and-out traffic.
- Removable mullions are easily removed and reinstalled for full width access.
- Rim devices are used on both leaves, attaining a perfectly symmetrical opening.
- The mullion assembly consists of a mullion, top and bottom mounting brackets and a screw pack. Soffit adapters are available for use with either the 2923 or the 4023 mullion.
- Strikes are not furnished with the mullion. Please see page 27 for strike information.
- Mullions may be cut on the job for doors under stock lengths.

### Mullion features

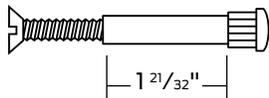
- Mullion fittings – ductile iron
- 4023 – 2" x 3" x height
- KR4023 cylinder removable mullion – 2" x 3" x height and uses 1 1/4" mortise cylinder not furnished
- 2923 mullion – 1 1/2" x 2 1/2" x height
- 423 mullion – T shape (1" on latch edge) supplied with 4396 adjustable strike
- Prime coat only
- 7' or 8' door opening standard, other door opening as specified

### Cylinders - control trim

- Cylinder supplied only when specified.
- Cylinders available keyed alike.

### Sex bolts

- 325 (1/4"-20 thread)
- 425 (#10-24 thread)



### 24-R Double door application

Strike	Installed with mullion	Min stile	B*
299	2923	3 1/2"	2 3/16"
299	4023	4"	2 7/16"
264	2923	3 3/8"	2 1/16"
264	4023	3 5/8"	2 5/16"
1439	2923	3 7/16"	1 7/8"
1439	4023	3 11/16"	2 1/8"
1606	2923	3 5/16"	1 7/8"
1606	4023	3 11/16"	2 1/8"

### Cylinder reference

Device	Trim	Standard key cylinder	IC key cylinder
24 Series device	Cylinder dogging	985 - 1 1/8" Mortise (#4 cam)	C987 - 1 3/8" Mortise #5 cam (Blocking ring plus security collar must equal 1/4" thick)
24 Series trims	L, K	986 - Mortise (#4 cam)	C987 - Mortise cylinder
24 Series trims	NL - Rim and surface vertical 718C, 718NL	951- Rim cylinder	C953 - Rim cylinder
24 Series trims	Concealed 718C, 718NL	986 - 1 1/4" Mortise (#4 cam) C (Schlage B520-731 cam or similar must be used)	N/A

# 24 Series

## Accessories and strikes

### Strikes

#### For rim devices



**264**  
2 7/8" x 1 1/4" x 9/16"  
(H x W x D)  
Panic device only.



**299**  
7 7/8" x 1 1/4" x 13/16"  
(H x W x D)  
Panic device only.



**299F**  
2 7/8" x 1 1/4" x 13/16"  
(H x W x D)



**1606**  
2 7/8" x 1 3/8" x 3/8"  
(H x W x D)  
Panic device only.



**1439 Blade stop**  
1 3/4" x 1 7/8" x 1/2"  
(H x W x D)  
Panic device only.

#### For surface and concealed vertical rod devices



**2130**  
(F)24-V and (F)24-C  
standard bottom  
strike for grouting  
into concrete or  
masonry floors.



**3788**  
Furnished top  
of (F)24-V.

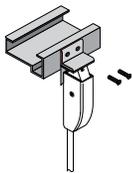


**4155**  
Optional strike.  
Panic device only.



**4188**  
Top strike for  
(F)24-C.

### Accessories



**4215**  
Angle bracket for flush transom applications.  
Does not require elimination of latch  
retention feature. Accepts 3788 strike for  
24-V device.



#### Surface vertical extension rods

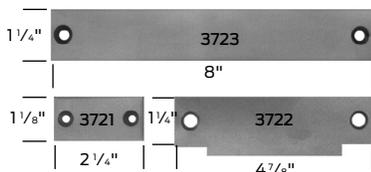
Extension rods are available in 12", 24" and 36" lengths in all finishes. Both ends tapped and all-thread included as connector.



#### Concealed extension rods

Extension rods are available in 12", 24" and 36". Both ends have pressed-in, threaded inserts.

#### Filler plates



#### 3721/3722/3723

Steel filler plates

- 3721 Cylindrical lock front filler
- 3722 Strike filler - set no. SC for 161 cutout
- 3723 Mortise lock front filler
- 3722 Strike filler - set no. SM for 86 cutout

# 24 Series

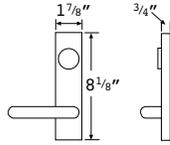
## Trim designs

### Lever trims (712L)



712L  
712L/NL

712L/DT  
712L/BE



### Lever designs



Avalon (AVA)  
Projection 3 1/4"



Quantum (QUA)  
Projection 3 1/4"



Dane (DAN)  
Projection 3"



Broadway (BRW)  
Projection 3 1/5"



Boardwalk (BRK)  
Projection 3 1/5"



Danish (DSH)  
Projection 2 9/10"



Latitude (LAT)  
Projection 3 1/10"



Longitude (LON)  
Projection 3 1/10"



Sutro (SUT)  
Projection 3 1/4"

### Knob trim (711K)



711K  
711-NL

Round ball knob  
Escutcheon: 8 1/8" (H) x 1 7/8" (W)  
Projection: 3 7/8"  
Brass

For keyed functions, see page 26 for cylinder requirements.

### Athena (715)



715DT

Grip overall: 9 1/8"  
Width: 1 11/16"  
Pull: 6 1/4" C x C  
Projection: 2 1/4"

All levers return to within 1/2" of door.

Escutcheon: 8 1/8" (H) x 1 7/8" (W) (specify handing) brass finish.

Protected by easily replaceable shear pin.

Lever is reversible, supplied RHR if not specified. For keyed functions, see page 26 for cylinder requirements.

### Delta trims



718DT



718C



718NL



717DT



718TL



718TL-BE

Specify handing  
Escutcheon: 8 1/8" x 1 7/8"  
Projection: 2 1/4"  
All Delta pulls: 6 1/4" C x C  
NL and DT: 14 1/16" x 2 1/4"

### Cylinder information

Key retracts latch bolt.  
Cylinder sold separately  
(see page 26).

Brass and/or plated finishes.

For cylinder information see page 26.  
When locking function is not required,  
specify trim by (BE) blank escutcheon.

# 24 Series

## Trim chart and finish chart

### Function

	Lock/ unlock	NL	DT	BE	NLOP
Lever <sup>1</sup> (712)	712L	712L-NL	712L-DT	12L-BE	
Knob (711)	711K	711K-NL	—	711K_BE	
Delta (717)	—	—	717DT	—	
Delta (718)	—	718NL	718DT	—	718C
Athena (715)	—	—	715DT		

<sup>1</sup> Specify hand.

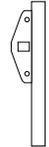
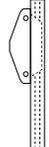
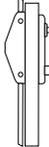
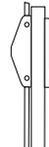
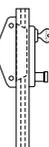
## 24 Series finishes

	Color	US number	BHMA number
	Brass, bright	US3	605
	Brass, satin	US4	606
	Bronze, satin	US10	612
	Bronze, aged	US11	643e*
	Nickel, satin	US15	619*
	Black, matte	US19	622*
	Chromium, bright	US26	625
	Chromium, satin	US26D	626
	Anodized aluminum	US28	628
	Stainless Steel, bright	US32	629
	Stainless Steel, satin	US32D	630
	Anodized duranodic	313AN	710

\*Available on select devices and trims

# 24 Series

## Types and functions

	Rim devices ANSI type 4	Vertical rod devices ANSI type 5	Concealed vertical rod devices ANSI type 6
Functions (ANSI)	(F)-24-R	(F)- 24-V	(F)-24-C
<b>EO (01)</b> Exit only, no trim.	 <b>24-R-EO</b>	 <b>24-V-EO</b>	 <b>24-C-EO</b>
<b>DT (02)</b> Entrance by trim when actuating bar is locked down. Note: Fire exit devices cannot be dogged down. Some codes permit electric dogging with fail secure circuitry.	 <b>24-R-DT</b>	 <b>24-V-DT</b>	 <b>24-C-DT</b>
<b>NL (03)</b> Entrance by trim when latchbolt is retracted by key. Key removable only when locked.	 <b>24-R-NL</b>	 <b>24-V-NL</b>	 <b>24-C-NL</b>
	<b>Rim devices ANSI type 4</b>	<b>Vertical rod devices ANSI type 5</b>	<b>Concealed vertical rod devices ANSI type 6</b>
	(F)-24-R	(F)- 24-V	(F)-24-C
<b>L or K (08)</b> Entrance by knob or lever. Key locks or unlocks knob.	 <b>24-R-L or K</b>	 <b>24-V-L or K</b>	 <b>24-C-L or K</b>
<b>L (NL) or K (NL) (09)</b> Entrance by knob or lever only when released by key. Key removable only when locked.	 <b>24-R-L or K(NL)</b>	 <b>24-V-L or K(NL)</b>	 <b>24-C-L or K(NL)</b>

# 24 Series

## Door application

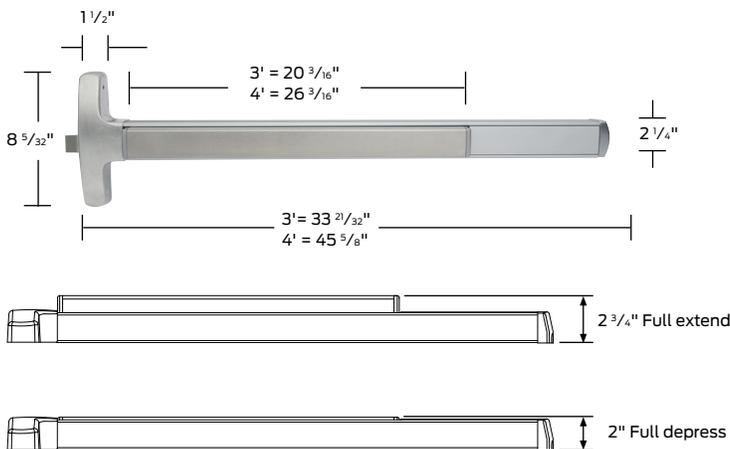
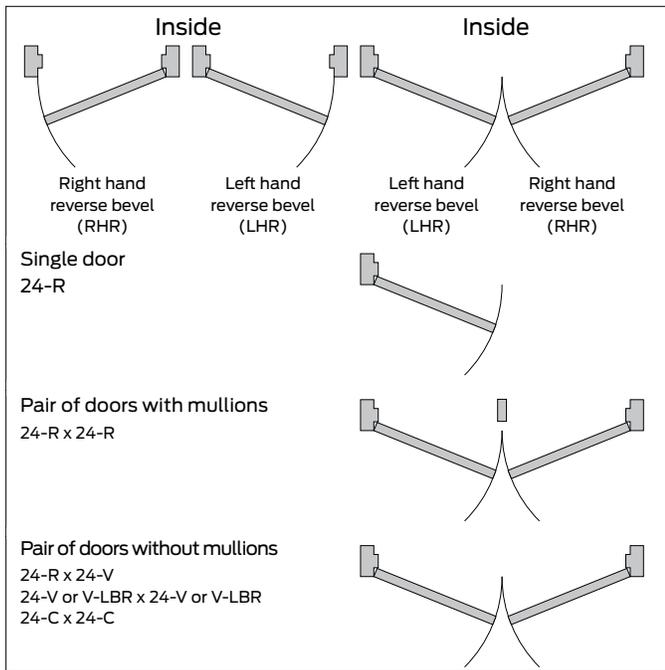
### Label doors

Falcon models F-24-R, F-24-C and F-24-V are labeled for use as  fire exit hardware.

### Door thickness

All devices and components supplied for 1 3/4" – 3'0" x 7'0" doors standard. Specify door thickness if other than 1 3/4".

### Door application chart



Product information and specifications contained in this catalog are subject to change without notice. Please consult the factory.

# Motorized electric latch retraction

## Motorized electric latch retraction for 24 and 25 Series devices

Motorized electric latch retraction (MEL) provides energy efficient electronic control of an exit device for an affordable around the door solution. The MEL option is Falcon's solution of choice for multifamily and commercial real estate facilities where cost competitive electromechanical latch retraction is desired. It is available on most Falcon 24 and 25 Series exit devices (not available for mortise 25-M or F-25-M).

These devices always provide mechanical egress. Motorized electric latch retraction can be used with credential readers to unlatch doors momentarily for authorized users, or it can be incorporated with systems to retract latches for extended periods of time to allow free entry. This is a convenient alternative to mechanical dogging. Doors with automatic operators also may use exit devices with electric latch retraction.

The MEL option is available on panic and fire rated devices. Because fire exit hardware must be self latching, an automatic fire alarm system must be incorporated to drop power to fire rated MEL devices in case of fire.

### Features and benefits

- MEL option available on 24 and 25 Series exit devices, except 25-M (mortise)
- Energy efficient motorized latch retraction enables longer wire runs and the use of a standard Schlage power supply with option board (see page 33)
- Modular design allows for a simplified installation of the available MEL Conversion kit to existing mechanical Falcon 24 or 25 exit devices
- On-board installation and troubleshooting diagnostics built into the motor assembly
- Self-calibrating motor assembly
- Pushbar is pulled in electronically when dogged
- Vandal resistant – detects and responds to events of attack and tampering



### MEL system requirements

The MEL has a low inrush current = 1.0 amps, so it can be used with standard Schlage power supplies. When powering multiple components, verify that the amperage requirement of all components combined does not exceed the power supply output rating.

- The MEL device is compatible with the following equipment: PS900 Series power supplies - PS902, 904, 906, 914; 900 Series Option Boards - 900-2RS, 900-4R and 900-4RL
- A power transfer (EPT, electrified hinge, or door loop) is required and sold separately

### Compatible options

- Security monitoring (DM, LM, RX)
- Fail Safe/Fail Secure electric trim (FSA/FSE)

### How to order:

- To order the MEL feature add "MEL" prefix to device designation (example: MEL-25-R-EO)<sup>1</sup>
- To order the MEL feature with Allegion Connect, add "MEL" prefix and "CON" suffix to device designation
- To order the MEL conversion kit, please specify finish with part number (see BHMA Finish codes)<sup>2</sup>

1. Mechanical dogging is not an option with MEL.

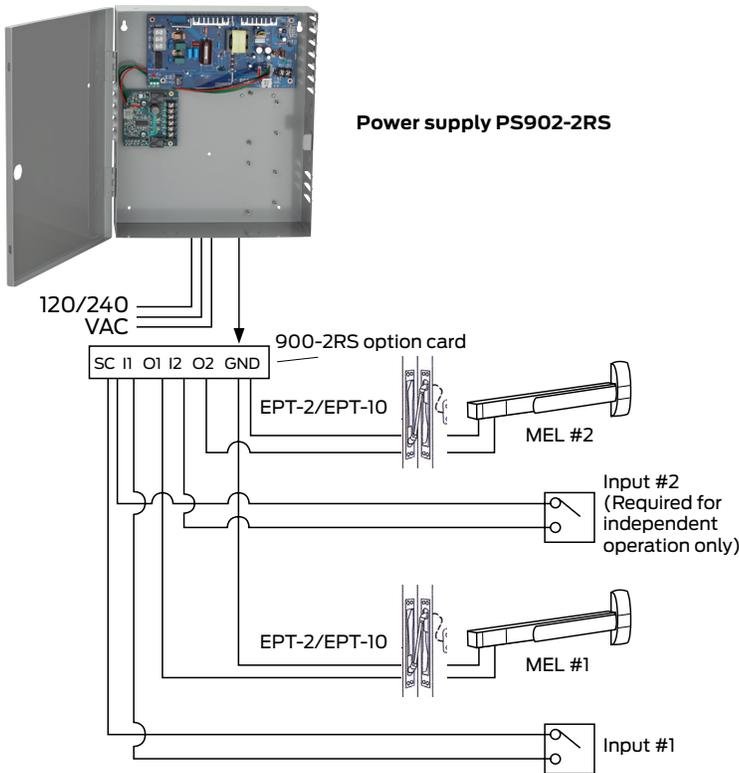
2. MEL kits may not be used to convert an EL device. MEL conversion kits are only compatible with mechanical Falcon 24 and 25 series exit devices.

Model no.	Description	Part number	Part number with Allegion Connect (-CON)
25-MELK-3	25 Motorized electric latch retraction kit 3'	47266630	47266630
25-MELK-4	25 Motorized electric latch retraction kit 4'	47266631	47266631
24-MELK-3	24 Motorized electric latch retraction kit 3'	47266632	47266632
24-MELK-4	24 Motorized electric latch retraction kit 4'	47266633	47266633

# Motorized electric latch retraction

## Application and wiring

### Popular application and wiring - motorized electric latch retraction (MEL)



Popular application shown above.  
See page 39 for other power supply details.

Device	Door size	Door strike	Minimum door opening width (Add 3.5" to standard)
MEL-24-R	3'	299	2' 11"
		264	2' 10 <sup>7</sup> / <sub>8</sub> "
		1439	2' 10 <sup>1</sup> / <sub>4</sub> "
		1606	2' 10 <sup>5</sup> / <sub>8</sub> "
MEL-24-R	4'	299	3' 5"
		264	3' 4 <sup>7</sup> / <sub>8</sub> "
		1439	3' 4 <sup>1</sup> / <sub>4</sub> "
		1606	3' 4 <sup>5</sup> / <sub>8</sub> "
MEL-24-C	3'	All	2' 10 <sup>5</sup> / <sub>8</sub> "
MEL-24-C	4'	All	3' 4 <sup>5</sup> / <sub>8</sub> "
MEL-24-V	3'	All	2' 10 <sup>5</sup> / <sub>8</sub> "
MEL-24-V	4'	All	3' 4 <sup>5</sup> / <sub>8</sub> "
MEL-25-R	3'	299	2' 11"
		264	2' 10 <sup>7</sup> / <sub>8</sub> "
		1439	2' 10 <sup>1</sup> / <sub>4</sub> "
		1606	2' 10 <sup>5</sup> / <sub>8</sub> "
MEL-25-R	4'	299	3' 5"
		264	3' 4 <sup>7</sup> / <sub>8</sub> "
		1439	3' 4 <sup>1</sup> / <sub>4</sub> "
		1606	3' 4 <sup>5</sup> / <sub>8</sub> "
MEL-25-C	3'	All	2' 10 <sup>5</sup> / <sub>8</sub> "
MEL-25-C	4'	All	3' 4 <sup>5</sup> / <sub>8</sub> "
MEL-25-V	3'	All	2' 10 <sup>5</sup> / <sub>8</sub> "
MEL-25-V	4'	All	3' 4 <sup>5</sup> / <sub>8</sub> "

### Power transfer - motorized electric latch retraction (MEL)

A power transfer (EPT, electrified hinge, door loop) provides a wiring path from the door to the frame. If an EPT (Electric Power Transfer) is utilized, the door and frame must be factory prepped.

#### EPT options

- EPT-2: Two 18AWG wires with a max rating of 24VDC, 5A or 120 VAC NEC class 3
- EPT-10: Ten 24AWG wires with a max rating of 24VDC, 1A

EPT can be used for:	EPT cannot be used for:
Door thickness - 1 <sup>3</sup> / <sub>4</sub> " minimum	1 <sup>1</sup> / <sub>2</sub> " offset pivots
0-180 degree opening with up to 5" butt hinges <sup>1</sup>	Larger than 6" butt hinges
0-130 degree opening with up to 5 <sup>1</sup> / <sub>2</sub> " butt hinges <sup>1</sup>	Pocket pivots
0-110 degree opening with up to 6" butt hinges <sup>1</sup>	Swing clear hinges
0-180 degree opening with up to 3 <sup>3</sup> / <sub>4</sub> " offset pivots <sup>1</sup>	Center hung doors (center pivot)
	Balanced door

1. Specifications only apply to a 1<sup>3</sup>/<sub>4</sub>" thick door.

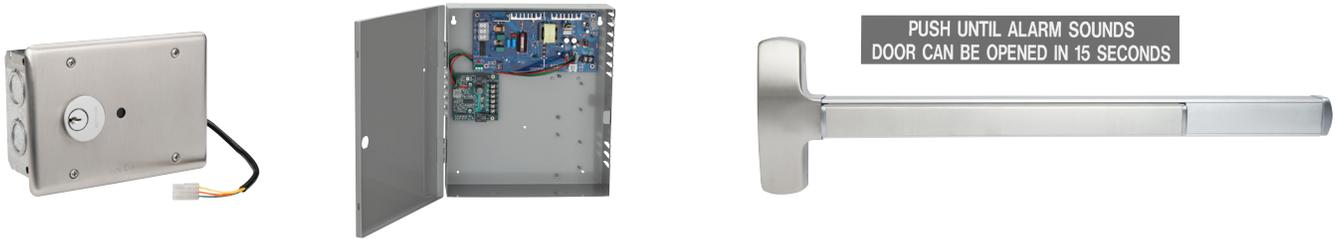
# Delayed egress system components

For all 24 and 25 Series

The delayed egress system provides control for limited egress and high security areas which require accident hazard or fire exit hardware.

## Delayed egress function

When the delayed egress system is armed, the mag lock(s) will remain secure against attempted override pressure and severe impacts. Ingress requires an operational trim, along with access control input (i.e. card reader, key switch, keypad). The system is required to be tied into local fire alarm system.



A complete delayed egress system requires the following components:

- DE5300 is used in delayed exit application and is ideal for controlled areas.
- Key switch operator
- Arm, disarm, reset and bypass the delayed egress system by the mortise cylinder on the dialogue box. (1-1/4" mortise cylinder sold separately.)
- LED status indicator
- Red LED indicates arm. Disarm and alarm status.
- Alarm horn
- Depression of the Falcon 24 or 25 RX device touchpad initiates a local alarm of 100 dB when armed.

## Falcon 25 Series device with RX switch

### PS902 Power supply

- PS902 - The series PS902 power supply is the recommended power supply for use with the delayed egress system. The series PS902 power supply is designed for electric locking or monitoring on single or double door applications. The output power is field selectable for either 24 VDC@1 ampere or 12 VDC@2 ampere. Standard input 120 VAC@0.6 ampere and 240 VAC@3.0 ampere available. The terminal block will accept up to 14 gauge stranded wire.

### Power supply

- **PS900 Series** - A PS900 Series power supply can be safely used with the delayed egress system (see page 39 for more information).

**Magnetic locks** - Schlage electronics M420, M450 or M490 maintains UL listing.

### How to order:

All components above are sold separately. To order, specify each component to complete a delayed egress system for your application.

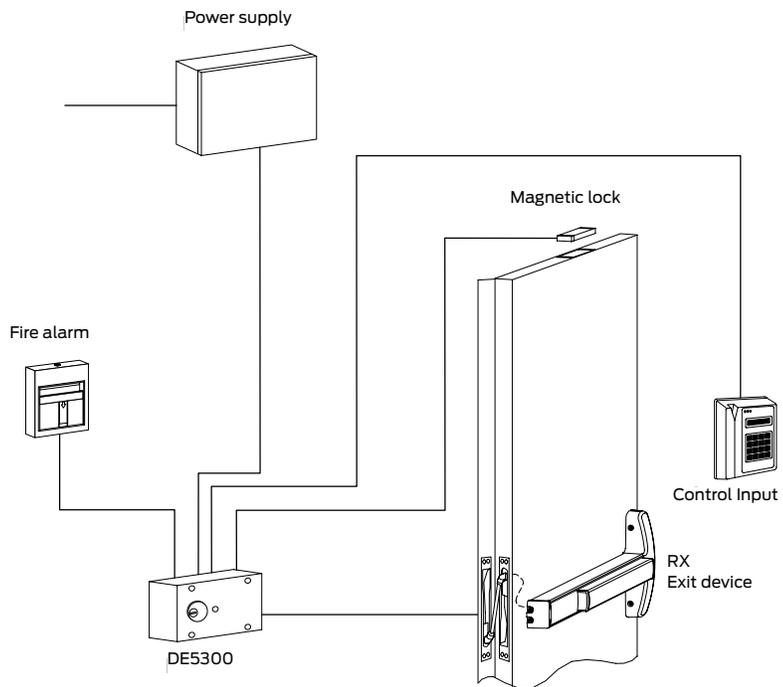
# Application and wiring

## Popular delayed egress diagram

### Minimum door opening sizes

(Jamb to jamb, or for double door- jamb to center of opening)

Device	Door size	Door strike	DE5300 for standard devices
24-R	3'	299	2' 7 1/2"
		264	2' 7 3/8"
		1439	2' 6 3/4"
		1606	2' 7 1/8"
24-R	4'	299	3' 1 1/2"
		264	3' 1 3/8"
		1439	3' 1 1/8"
		1606	3' 1 1/8"
24-C	3'	All	2' 7 1/8"
24-C	4'	All	3' 1 1/8"
25-R	3'	299	2' 7 3/4"
		264	2' 7 3/8"
		1439	2' 6 3/4"
		1606	2' 7 1/8"
25-R	4'	299	3' 1 1/2"
		264	3' 1 3/8"
		1439	3' 1 1/8"
		1606	3' 1 1/8"
25-C	3'	All	2' 7 3/8"
25-C	4'	All	3' 1 3/8"
25-M	3'	All	2' 7 1/2"
25-M	4'	All	3' 2"



# Electric lock or unlock trim

## Electric lock or unlock trim (FSA/FSE) for 25 Series

The electric lock or unlock (FSA/FSE) feature allows the controlling of trim while still maintaining free egress at all times. The lock or unlock command can be controlled by a security system, fire alarm system, key switch, card reader, push button or touchpad.

**FSA** (Fail safe—unlocks when power is interrupted) can be used in areas requiring doors to be unlocked due to fire, power failure or emergency situations. (Examples: stairwells, hospitals, fire exits, etc.)

**FSE** (Fail secure—locks when power is interrupted) can be used in areas requiring doors to be locked for security reasons and only unlocked when energized by authorized personnel. (Examples: banks, inner-office, etc.) With either feature, authorized personnel can gain access utilizing key by overriding or bypassing electric locking function.



### Specifications

- Solenoid rated for continuous duty at 24V DC 0.4 amps.
- UL listed devices.
- Device channel is used as conduit on 25 Series devices.
- Power transfer (EPT-2) hinge 2-wire minimum rated 1/2 Amp.
- See page 35 for more information

### Wire chart

Length of wire run (ft.)	24VDC 0.4 AMPS
0-500	18AWG
501-700	16AWG

### How to order

To order FSA/FSE feature, add FSA or FSE prefix to device designation. (Example: FSA 25-R-L)

### Note:

1. FSA/FSE can be used on all devices.
2. The FSA/FSE feature can be used in conjunction with MEL (Motorized electric latch retraction), EA (exit alarm) and security monitoring (DM, LM, RX).

### Minimum power supply- PS902

- The series 902 power supply is the recommended power supply for use with an FSA or FSE trim. The series 902 power supply is also designed for electric locking or monitoring of single or double door applications.
- See page 39 for more information

# Exit alarm

## Exit alarm (EA) - for all 24 and 25 Series devices

The Exit alarm (EA) feature provides a battery powered exit alarm to allow for a simple and effective means of monitoring the use of exits while still maintaining means of egress (for code requirements). When the touchbar is depressed the alarm will sound continuously, indicating that the exit has been engaged. The exit alarm can only be reset by way of a standard 1 1/4" mortise cylinder with standard "A" cam (5/16" wide x 3/4" long). The design of the unit will allow the single 9V battery to last for at least six months (on standby mode).



### Minimum door width required for standard devices

Device	Door size	Door strike	Min door opening width
EA-24-R	3'	299	2' 9 1/4"
		264	2' 9 1/8"
		1439	2' 8 3/8"
		1606	2' 8 7/8"
EA-24-R	4'	299	3' 3 1/4"
		264	3' 3 1/8"
		1439	3' 3 7/8"
		1606	3' 3 7/8"
EA-24-C	3'	All	2' 9 1/8"
EA-24-C	4'	All	3' 3 1/8"
EA-24-V	3'	All	2' 8 7/8"
EA-24-V	4'	All	3' 2 7/8"
EA-25-R	3'	299	2' 9 1/4"
		264	2' 9 1/8"
		1439	2' 8 3/8"
		1606	2' 8 7/8"
EA-25-R	4'	299	3' 3 1/4"
		264	3' 3 1/8"
		1439	3' 3 7/8"
		1606	3' 3 7/8"
EA-25-C	3'	All	2' 8 7/8"
EA-25-C	4'	All	3' 2 7/8"
EA-25-M	3'	All	2' 9 1/4"
EA-25-M	4'	All	3' 3 1/4"
EA-25-V	3'	All	2' 8 7/8"
EA-25-V	4'	All	3' 2 7/8"

### Specifications

- Works with rim, mortise, concealed, surface vertical rod
- UL listed
- The EA feature can be used in conjunction with FSA/FSE (Fail safe/Fail secure trim) and security monitoring (DM, LM, RX) features.

### Features and benefits

- 110 dB alarm
- 24 Volt hardwire option
- 9V Battery input
- External inhibit for card reader
- LED indication
  - Armed
  - Disarmed
  - Low battery
  - EAK retrofit kit available for your existing devices

### How to order

To order EA feature add "EA" prefix to device designation. (Example: EA-25-R-EO)

To order EAK (exit alarm kit) feature order "EAK" plus device length (3' or 4'), type of device (24 or 25 Series) and the finish of your existing device.

(Example: EAK-4', 24 Series, 612)

(For retrofit application)

### Minimum power supply - PS902

The series PS902 power supply is the recommended power supply for use with the exit alarm (EA) option. The series PS902 power supply is designed for electric locking or monitoring on single or double door applications (see page 32 for more information).

# Device monitoring

## Device monitoring for most 24 and all 25 Series devices\*

All of the monitoring features available from Falcon provide total flexibility and will interface with any security system. All monitoring switches are dry contact type and are contained within the device, allowing for tamper-resistant operation. Security monitoring features allow monitoring of devices, latches, authorized egress and locking levers. A key override option is available. All of the security monitoring features can be used in any combination with any other Falcon feature. Consult factory for special applications.

### **\*DM, \*LM, RX Monitoring**

- The DM (device monitor) feature monitors full latch projection. If the latchbolt is retracted by use of device, or someone tampers with the latchbolt, the switch is activated sending a signal to controlling areas. In devices with the deadlock feature, the deadlatch status is monitored.
- The LM (Latch monitor) feature monitors full latchbolt retraction. When the latchbolt is fully retracted a signal is sent indicating door (or device) opened status.
- The RX feature monitors the depression of the touch bar or crossbar. Activation of the switch indicates use of a door or that the door is in the dogged condition. This feature is especially useful when used to activate or shunt magnetic locking systems.

\*LM/DM not available on F-24-R.

### **How to order**

To order any individual or combination of monitor feature(s) add the respective prefix(s) to device designation. (Example: EL-RX-DM-25-V-L-DANE)

### **Key override option (KOR)**

The KOR feature allows authorized personnel to override monitoring features on a door by use of a keyed 1 1/8" mortise cylinder with 5/16" wide x 3/4" long standard cam (mortise cylinder not supplied).

Activating KOR feature allows any feature to be disabled for daytime use or when desired by key holder. This is a maintained contact switch. KOR is especially useful for turning on or off magnetic locking systems and electric dogging control (at the door).

This feature is not available with EA feature, cylinder/standard dogging.

To order KOR feature add KOR prefix to device designation. (Example: KOR-DM-24-R-TP)

Note: Use of these features may require a power transfer hinge (supplied by others) or additional wires in the power transfer hinge needed for application when combined with other electrified features.

# Power supply



The PS900 Series is a consolidated line of power supplies and accessories that offer enhanced flexibility and functionality specific to the changing needs of the access control market. The PS900 Series can be used in a variety of

applications to convert high voltage AC power into the low voltage DC outputs required by most access control devices. The PS900 Series protects devices downstream by providing Class 2\*, filtered and regulated power. The full line is UL294 certified.

Note: PS906 can provide Class 2 rated outputs when used with 900-8P distribution board.

## Features:

- Constant output rating at both 12 VDC and 24 VDC provides superior performance; includes field selectable jumper
- Polarized connectors for option boards eliminate need for racks and side connectors
- Flat mounting of option boards provides easier access to terminal blocks for connection of electrified devices
- High voltage protective cover
- Battery back-up board auto-selects voltage
- Fire alarm relay can be configured to provide either switched or un-switched outputs from a power supply
- PS914 designed with high inrush current for powering solenoid-driven electrified panic devices
- Universal 120-240 VAC input
- Low voltage DC, regulated and filtered
- Electronic power limiting foldback circuit for AC current overload protection
- Fused primary input
- AC status monitor- isolated SPDT contacts
- AC input and DC output LED status indicators
- Cover mounted AC input indication
- Hinged cover with lock down screws

## Certifications:

- UL 294 certified—the standard for access control
- Class 2 rated\*

\* Except PS906, output rating exceeds Class 2 power limits

Once power is converted to low voltage DC, the PS900 Series offers a variety of distribution options, including basic fuse protection, simple relay, and advanced logic providing complex sequencing and timing functions.

\* PS906 can provide Class 2 rated outputs when used with 900-8P distribution board.

	PS902	PS904	PS906	PS914
<b>Number of connectors on power supply for the following:</b>	<b>2 amps</b>	<b>4 amps</b>	<b>6 amps</b>	<b>4 amps</b>
Distribution boards	1	2	3	2
Battery back-up board	1	1	1	1

Note: One fire alarm board can be connected directly to the PS902. If a fire alarm board is desired for the PS904, PS906 or PS914 it can be connected to a distribution board.

## Applications:

The PS900 Series of power supplies works with many electrified devices including Falcon exit devices, electromagnetic locks, hardwired locks, electrified mechanical locks, electrified strikes and many other products.

## Accessories:

The PS900 Series features seven option boards for use in a variety of applications. All PS900 Series power supplies option boards are UL 294 certified.

### Option boards:

**900-4R:** 4 relay controlled output board to power multiple devices

**900-4RL:** 4 relay distribution board with logic is field configurable for time delay function, auto operator, security interlock

**900-8F:** Provides 8 individually fuse-protected outputs, giving the flexibility to power multiple devices and provide another layer of protection

**900-FA:** Emergency interface relay integrates with fire alarm and is used to cut power in case of emergency

**900-BB:** Battery backup

**900-2RS:** 2 relay MEL or EL panic device control board

**900-BBK:** Battery backup kit includes two 7A/hr batteries and provides up to four hours of backup power when cycled every 5 minutes at full load

### Wire selection size/type

Run length	MEL device w/EPT, electric hinge, door loop (one way)
200'	18 AWG
320'	16 AWG
500'	14 AWG
800'	12 AWG

# Electrical options summary

## Electrical options matrix - 25 Series

Option	Electric dogging	Motorized electric latch retraction (MEL)	Delayed egress	Electric lock /unlock trim (FSA/FSE)	Device monitor (DM)	Latch monitor (LM)	Authorized egress (RX)	Key override (KOR)	Exit alarm (EA)
Motorized electric latch retraction (MEL)	X	—	V	V	V	V	V	X	X
Delayed egress	V	V	—	V	V	V	V	V	V
Electric lock/unlock trim (FSA/FSE)	V	V	V	—	V	V	V	V	V
Device monitor (DM)	V	V	V	V	—	V	V	V	V
Latch monitor (LM)	V	V	V	V	V	—	V	V	V
Request to exit (RX)	V	V	V	V	V	V	—	V	V
Key override (KOR)	X	X	V	V	V	V	V	—	X
Exit alarm (EA)	X	X	V	V	V	V	V	X	—

## Electrical options matrix - 24 Series

Option	Electric dogging	Motorized electric latch retraction (MEL)	Delayed egress	Device monitor (DM)	Latch monitor (LM)	Authorized egress (RX)	Key override (KOR)	Exit alarm (EA)
Motorized electric latch retraction (MEL)	X	—	V	V	V	V	X	X
Delayed egress	V	V	—	V	V	V	V	V
Device monitor (DM)*	V	V	V	—	V	V	V	V
Latch monitor (LM)*	V	V	V	V	—	V	V	V
Request to exit (RX)	V	V	V	V	V	—	V	V
Key override (KOR)	X	X	V	V	V	V	—	X
Exit alarm (EA)	X	X	V	V	V	V	X	—

\*Not available on 24-R/F-24-R.

**V** = Works with  
**X** = Doesn't work

# UL Listed fire exit hardware

## Label and opening size - 25 Series

Check with door manufacturers to confirm listing compatibility.

Exit device	Door material	Single door	Double door		V x V same direction	V x FB (Inactive) same direction	V x Mortise same direction	V x V double egress
			With F-4023 mullion	With KR-F-4023 mullion				
<b>F-25-R</b>	Metal	3 Hour 4' x 8'	3 Hour 8' x 8'	90 Min 8' x 8' (with 499F strike)	—	—	—	—
<b>F-25-V</b>	Metal	—	—	—	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'
<b>F-25-V</b>	Composite (Wood or Plastic covered)	—	—	—	90 Min 8' x 10'	90 Min 8' x 10'	—	90 Min 8' x 10'
<b>F-25-V-LBR-F</b>	Metal	—	—	—	3 Hour 8' x 8'	3 Hour 8' x 8'	—	3 Hour 8' x 8'
<b>F-25-V-LBR-F*</b>	Composite (Wood or Plastic covered)	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
<b>F-25-V-LBR-F*</b>	Wood Core	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
<b>F-25-C</b>	Metal	—	—	—	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'
<b>F-25-C -LBR-F</b>	Metal	—	—	—	3 Hour 8' x 8'	3 Hour 8' x 8'	—	3 Hour 8' x 8'
<b>F-25-C-WDC-LBR-F*</b>	Composite (Wood or Plastic covered)	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
<b>F-25-C-WDC-LBR-F*</b>	Wood Core	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
<b>F-25-M</b>	Metal	3 Hour 4' x 10'	—	—	—	—	3 Hour 8' x 10'	—
<b>F-25-M</b>	Composite (Wood or Plastic covered)	90 Min 4' x 10'	—	—	—	—	90 Min 8' x 10'	—

\*Not listed for Canada.

# UL Listed fire exit hardware

## Label and opening size - 24 Series

Check with door manufacturers to confirm listing compatibility.

Exit device	Door material	Single door	Double door		V x V same direction	V x FB (Inactive) same direction	V x Mortise same direction	V x V double egress
			With F-4023 mullion	With KR-F-4023 mullion				
<b>F-24-R</b>	Metal	90 Min 4' x 8'			—	—	—	—
<b>F-24-V</b>	Metal	—	—	—	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'
<b>F-24-V</b>	Composite (Wood or Plastic covered)	—	—	—	90 Min 8' x 10'	90 Min 8' x 10'		90 Min 8' x 10'
<b>F-24-V-LBR-F</b>	Metal	—	—	—	3 Hour 8' x 8'	3 Hour 8' x 8'	—	3 Hour 8' x 8'
<b>F-24-V-LBR-F*</b>	Composite (Wood or Plastic covered)	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
<b>F-24-V-LBR-F*</b>	Wood Core	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
<b>F-24-C</b>	Metal	—	—	—	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'
<b>F-24-C -LBR-F</b>	Metal	—	—	—	3 Hour 8' x 8'	3 Hour 8' x 8'	—	3 Hour 8' x 8'
<b>F-24-C-WDC-LBR-F*</b>	Composite (Wood or Plastic covered)	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
<b>F-24-C-WDC-LBR-F*</b>	Wood Core	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'

\*Not listed for Canada.

# How to order

## 25 Series

	MEL	F	25	V	L-DANE	US3	3'	LHR	LBR	SNB	WD
<b>Prefixes</b>											
<b>CD</b>	Cylinder dogging										
<b>RX</b>	Touchbar request to exit										
<b>DM</b>	Latchbolt and device monitor switch										
<b>EA</b>	Exit alarm										
<b>KOR</b>	Key bypass switch										
<b>LD</b>	Less dogging										
<b>LM</b>	Latchbolt status switch										
<b>MEL</b>	Motorized electric latch retraction										
<b>FSA</b>	Electric lock or unlock trim-fail safe										
<b>FSE</b>	Electric lock or unlock trim-fail secure										
<b>Rating</b>											
<b>F</b>	Fire exit hardware										
<b>Blank</b>	Panic exit hardware										
<b>Device series</b>											
<b>25</b>	Touch bar device, wide stile										
<b>Device type</b>											
<b>R</b>	Rim			<b>C-WDC</b> Concealed vertical rod wood door (20 or 90 min.)							
<b>V</b>	Surface vertical rod										
<b>C</b>	Concealed vertical rod			<b>M</b> Mortise							
<b>Trim function (see trim pages for all functions)</b>											
<b>EO</b>	Exit only			<b>K</b> Knob							
<b>DT</b>	Dummy trim			<b>L</b> Lever (Dane standard)							
<b>NL</b>	Night latch			<b>C</b> Cylinder prim plate							
<b>NL-OP</b>	Night latch optional pull			<b>511-L</b> VR trim							
<b>TP</b>	Thumbpiece										
<b>Finish</b>											
<b>605</b>	<b>612</b>	<b>622</b>	<b>626</b>	<b>629</b>	<b>710</b>						
<b>606</b>	<b>619</b>	<b>625</b>	<b>628</b>	<b>630</b>							
<b>Door width</b>											
<b>3'</b>	Standard default			<b>Door thickness</b>							
<b>4'</b>				1 3/4" Standard							
				2 1/4" Optional							
<b>Handing</b>											
<b>RHR</b>	Right hand reverse										
<b>LHR</b>	Left hand reverse										
<b>Less bottom rod</b>											
<b>LBR</b>	Less bottom rod										
<b>Accessories</b>											
<b>CYL</b>	Cylinder			<b>SNB</b> Sex bolts							
<b>SK</b>	Shim kit			<b>AMS</b> All machine screws (for vertical and concealed only)							
<b>Other miscellaneous door information</b>											
<b>HMD</b>	Hollow metal door			— Door thickness							
<b>HMF</b>	Hollow metal frame			— Door undercut							
<b>WD</b>	Wood door			— Door label							
<b>WDF</b>	Wood frame			— Stile width							
<b>ALD</b>	Aluminum door			— Frame stop height							
<b>ALF</b>	Aluminum frame			<b>SGL</b> Single door							
<b>SCDC</b>	Steel channel door construction			<b>PR</b> Pair of doors swinging same direction							
—	Specify other door or frame										
—	Material information										
—	Door height										

# How to order

## 24 Series

	MEL	F	24	V	L-DANE	US3	3'	LHR	LBR	SNB	WD
<b>Prefixes</b>											
<b>CD</b>	Cylinder dogging										
<b>RX</b>	Touchbar request to exit										
<b>DL</b>	Deadlocking										
<b>DM</b>	Latchbolt and device monitor switch										
<b>EA</b>	Exit alarm										
<b>KOR</b>	Key bypass switch										
<b>LD</b>	Less dogging										
<b>LM</b>	Latchbolt status switch										
<b>MEL</b>	Motorized electric latch retraction										
<b>Rating</b>											
<b>F</b>	Fire exit hardware										
<b>Blank</b>	Panic exit hardware										
<b>Device series</b>											
<b>24</b>	Touch bar device, narrow stile										
<b>Device type</b>											
<b>R</b>	Rim					<b>C</b>	Concealed vertical rod				
<b>V</b>	Surface vertical rod					<b>C-WDC</b>	Concealed vertical rod wood door				
<b>Trim function (see trim pages for all functions)</b>											
<b>EO</b>	Exit only					<b>K</b>	Knob				
<b>DT</b>	Dummy trim					<b>L</b>	Lever (Dane standard)				
<b>NL</b>	Night latch										
<b>C</b>	Cylinder trim less pull										
<b>Finish</b>											
<b>605</b>	<b>612</b>	<b>622</b>	<b>626</b>	<b>629</b>	<b>710</b>						
<b>606</b>	<b>619</b>	<b>625</b>	<b>628</b>	<b>630</b>							
<b>Door width</b>											
<b>3'</b>	Standard default					<b>Door thickness</b>					
<b>4'</b>						1 3/4" Standard					
						2 1/4" Optional					
<b>Handing</b>											
<b>RHR</b>	Right hand reverse										
<b>LHR</b>	Left hand reverse										
<b>Less bottom rod</b>											
<b>LBR</b>	Less bottom rod										
<b>Accessories</b>											
<b>CYL</b>	Cylinder					<b>SNB</b>	Sex bolts				
<b>SK</b>	Shim kit					<b>AMS</b>	All machine screws (for vertical and concealed only)				
<b>Other miscellaneous door information</b>											
<b>HMD</b>	Hollow metal door					—	Door thickness				
<b>HMF</b>	Hollow metal frame					—	Door undercut				
<b>WD</b>	Wood door					—	Door label				
<b>WDF</b>	Wood frame					—	Stile width				
<b>ALD</b>	Aluminum door					—	Frame stop height				
<b>ALF</b>	Aluminum frame					<b>SGL</b>	Single door				
<b>SCDC</b>	Steel channel door construction					<b>PR</b>	Pair of doors swinging same Direction				
—	Specify other door or frame material information										
—	Door height										

\*Not available for F-24-R

# How to order

## Trim

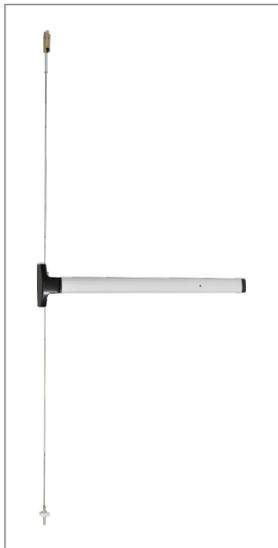
		510	L	R	US26D	LHR	SUTRO	FSE	CYL
<b>24 Series</b>	<b>25 Series</b>								
711	510								
712	511								
715	512								
717	513								
718	717								
	718								
<b>Trim function (see trim pages for all functions)</b>									
<b>EO</b>	Exit only	<b>K</b>	Knob						
<b>DT</b>	Dummy trim	<b>L</b>	Lever (Dane standard)						
<b>NL</b>	Night latch	<b>KIL</b>	Key in lever						
<b>C</b>	Cylinder trim less pull	<b>TL</b>	Thumb lever						
<b>TP</b>	Thumbpiece								
<b>Device type</b>									
<b>R</b>	Rim								
<b>V</b>	Surface vertical rod								
<b>C</b>	Concealed vertical rod (includes WDC)								
<b>M</b>	Mortise								
<b>Finish</b>									
<b>605</b>	<b>612</b>	<b>619</b>	<b>625</b>	<b>629</b>	<b>689</b>				
<b>606</b>	<b>613</b>	<b>622</b>	<b>626</b>	<b>630</b>	<b>695</b>				
<b>Handing</b>									
<b>RHR</b>	Right hand reverse								
<b>LHR</b>	Left hand reverse								
<b>Lever style</b>									
	Dane (DAN)								
	Sutro (SUT)								
	Quantum (QUA)								
	Avalon (AVA)								
	Boardwalk (BRK)								
	Broadway (BRW)								
	Danish (DSH)								
	Latitude (LAT)								
	Longitude (LON)								
<b>Other miscellaneous door information</b>									
<b>FSA</b>	Electric Lock or Unlock-Fail Safe (FSA device required)								
<b>FSE</b>	Electric Lock or Unlock-Fail Secure (FSE device required)								
<b>CON</b>	Allegion Connect								
<b>Accessories</b>									
<b>CYL</b>	Cylinder								
<b>KD</b>	Cylinder keyed different								
<b>Door thickness</b>									
Specify door thickness other than 1 <sup>3</sup> / <sub>4</sub> "									

# 1690 Concealed vertical rod touchbar device

The design of the 1690 is ideal for demanding, moderate-traffic applications. The vertical rods and latch mechanisms are concealed in the vertical door stile, ensuring trouble-free operation. Cast metal cover plates and end caps hold up to rigorous use. A quick, single-point dogging feature in the housing deactivates the device, permitting unrestricted traffic flow. The 1690 may also be used to retrofit a 1990 Series crossbar device.

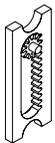


Length	Minimum door size (non-EL)	Minimum door size (EL)
30"	24"	28 1/2"
36"	30"	34 1/2"
42"	36"	40 1/2"
48"	42"	46 1/2"

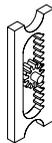


### Positioning retractor as shown for NL or HB functions.

Install retractor as shown below for both RHR and LHR doors; this makes all keys function in the same direction.



Hold back (HB)



Night latch (NL)

## Specifications

Hand	Field reversible, non-handed
Functions	See trim selection chart on this page.
Finishes:	628, 710, 711, 605, 612, 625, 626 Centercase and end cap are powder-coated black only.
Strikes	PB48 top
Latches	Standard top - SU latch Standard bottom - hex bottom bolt Optional top - ES - electric strike top latch, device must be less bottom rod (LBR). Optional bottom - RL - rod bottom latch - PL - pullman bottom latch
Dogging feature	Hex key dogging standard, except EL where must use hold back feature on outside cylinder.
Cylinder	Rim, night latch (NL) or hold back (HB) feature available. Field selectable
Sizes	30", 36", 42", and 48"
Doors	1 3/4" thick metal doors, specify if other*
Projections	3 3/8" in neutral position, 2 3/8" in dogged position; Pushbar height is 2 1/2"
Stile	1 3/4" minimum
Electric functions	MEL - motorized electric latch retraction, requires PS900 series power supply; RX - request to exit switch, monitors pushpad OSPTD switch
Fasteners	All machine screw mounting. Device mounting fasteners are concealed, latch fasteners are exposed to egress side.
End caps	Black powder-coated metal end caps
Vertical rods	7' standard, extension rods available up to 10' Rod extension kits available.
ANSI	Certified ANSI A156.3 grade 1 standards
Hurricane	1690 devices are used for hurricane rated door openings. Consult door manufacturer's listing.

Model	Trim package	Type	Function
1690	No outside trim	6	01
1691	Pull only (9970)	6	02
1692	Cylinder only	6	03/04
1694	Pull and cylinder	6	02/03/04

\* 9970 is for use on HM and Alum doors only. Not for use on wood doors.

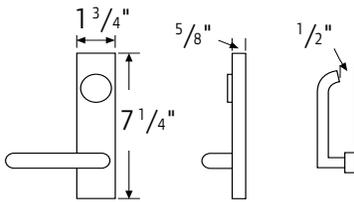
# 1790 Rim touchbar device

The 1790 rim device is typically used in applications where maintenance is a concern because the rim device has fewer parts and pieces than current exit devices. The result is less maintenance and adjustment. The streamlined design has no openings for chains, reducing the risk for code infringements and offering increased building security by eliminating the possibility of tampering and forced entry through the use of coat hangers and other tools. The 1790 may also be used to retrofit a 2090 series crossbar device.



Length	Minimum door size (non-EL)	Minimum door size (EL)
30"	24"	28 1/2"
36"	30"	34 1/2"
42"	36"	40 1/2"
48"	42"	46 1/2"

- Lock/unlock capability
- ADA accessible
- Lever designs
  - Dane
  - Sutro
  - Quantum



Lever projection: Quantum = 3"  
 Sutro = 2 7/8"  
 Dane = 2 7/8"

Key locks or unlocks trim. Lever retracts latch bolt when trim is unlocked. Dane, Quantum and Sutro levers return to within 1/2" of door.

## Specifications

Hand	Non handed
Functions	See trim selection chart on this page.
Finishes	628, 710, 711, 605, 612, 625, 626 Centercase and end cap are powder-coated black only.
Strikes	TD35 strike supplied standard, see page 11 for other rim strikes available.
Latch bolt	1" thickness, 3/4" throw
Dogging feature	Hex key dogging standard, except EL where must use hold back feature on outside cylinder.
Cylinder	Rim, night latch (NL) or hold back (HB) available (field selectable).
Sizes	30", 36", 42", and 48"
Doors	1 3/4" thick metal or wood, specify if wood door**
Projections	3 3/8" in neutral position, 2 3/8" in dogged position. Pushbar height is 2 1/2".
Stile	1 3/4" minimum
Electric functions	MEL - motorized electric latch retraction, requires PS900 series power supply; RX - request to exit switch, monitors pushpad OSPTD switch
Fasteners	All machine screw mounting. Device mounting fasteners are concealed, latch fasteners are exposed to egress side.
End caps	Black powder-coated metal end caps
ANSI	Carry UL label and approved for life safety. Certified ANSI A156.3 grade 1 standards.
Mullions	Removable mullions are available for pairs of doors, see page 26.

Model	Trim package	Type	Function
1790	No outside trim	4	01
1791	Pull only (9970)	4	02
1792	Cylinder only	4	03/04* or 08/09*
1794	Pull (9970) and cylinder	4	02/03/04

\* Requires use of 179L

\*\*9970 is for use on HM and Alum doors only. Not for use on wood doors.

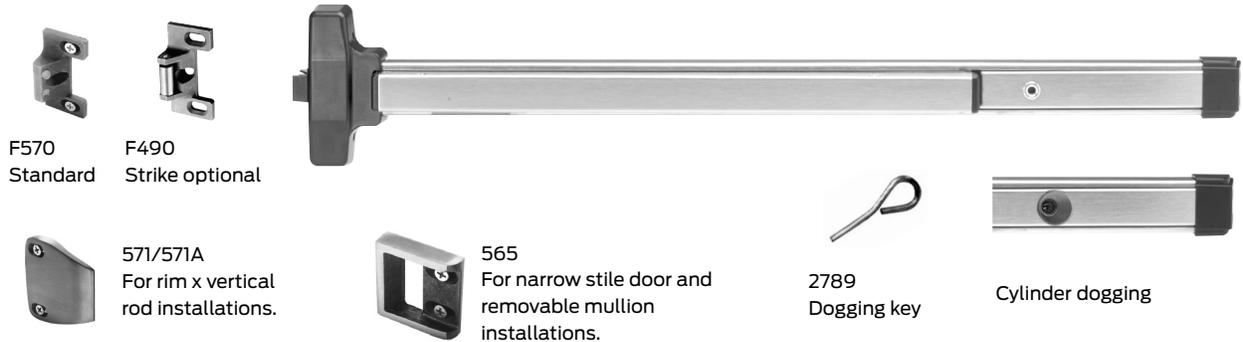
# 19-R Series non-handed rim device

## Panic exit hardware

The Falcon 19-R Series rim device that delivers superior panic hardware with modern touchbar styling.

This non-handed device covers a 161 cutout and may be used on 1 3/4" narrow stile aluminum doors.

The "EO" (exit only) device is ready to accept any trim function shown on page 12.



Device & trim	ANSI type	ANSI function
19-R-EO	1 or 4	01
19-R-DT	1 or 4	02
19-R-NL	1 or 4	03
19-R-K (or L or KIL)	1 or 4	08
19-R-K-NL (or L-NL or kil-nl)	1 or 4	09
19-R-TP-BE	1 or 4	
19-R-K-BE	1 or 4	
19-R-K-DT	1 or 4	
19-R-L-BE	1 or 4	
19-R-L-DT	1 or 4	
19-R-KIL-BE	1 or 4	
19-R-KIL-DT	1 or 4	

Note: For blank escutcheon specify BE.

## Specifications

Hand	Non-handed
Functions	See trim selection chart on this page
Finishes	689, 695, 630 Centercase and end cap are powder-coated black only.
Strikes	Standard - F570 Optional - F490, 565, 571, 571A
Latch	Stainless steel, 3/4" throw dead locking
Dogging feature	Hex key dogging standard. Cylinder dogging or less dogging optional.
Sizes	3' for doors from 2'5" up to 3' 4' for doors from 3' up to 4'
Doors	1 3/4" thick metal or wood doors, specify if other
Projections	2 1/2" in neutral position, 1 7/8" in dogged position. Pushbar height is 1 3/4"
Stile	1 3/4" minimum
Fasteners	All machine screw mounting. Device mounting fasteners are concealed, latch fasteners are exposed to egress side.
End caps	Black plastic end caps
ANSI	Certified ANSI A156.3 grade 1 standards

# F-19-R Series non-handed rim device

## 🔥 Fire exit hardware

The F-19 Rim fire exit device is an excellent addition to the touchbar. This device is non-handed and is listed by UL for B label fire door installations on 4'0" x 7'2" single doors and/or 8'0" x 7'2" double doors with an F-4023 removable mullion or KRF-4023. The "EO" (exit only) device is ready to accept any trim function shown on page 12.



F570  
Standard



F490  
Strike optional



Device & trim	ANSI type	ANSI function
F-19-R-EO	1 or 4	01
F-19-R-NL	1 or 4	03
F-19-R-K (or L or KIL)	1 or 4	08
F-19-R-K-NL (or L-NL or KILL-NL)	1 or 4	09

Note: For blank escutcheon specify BE

### Specifications

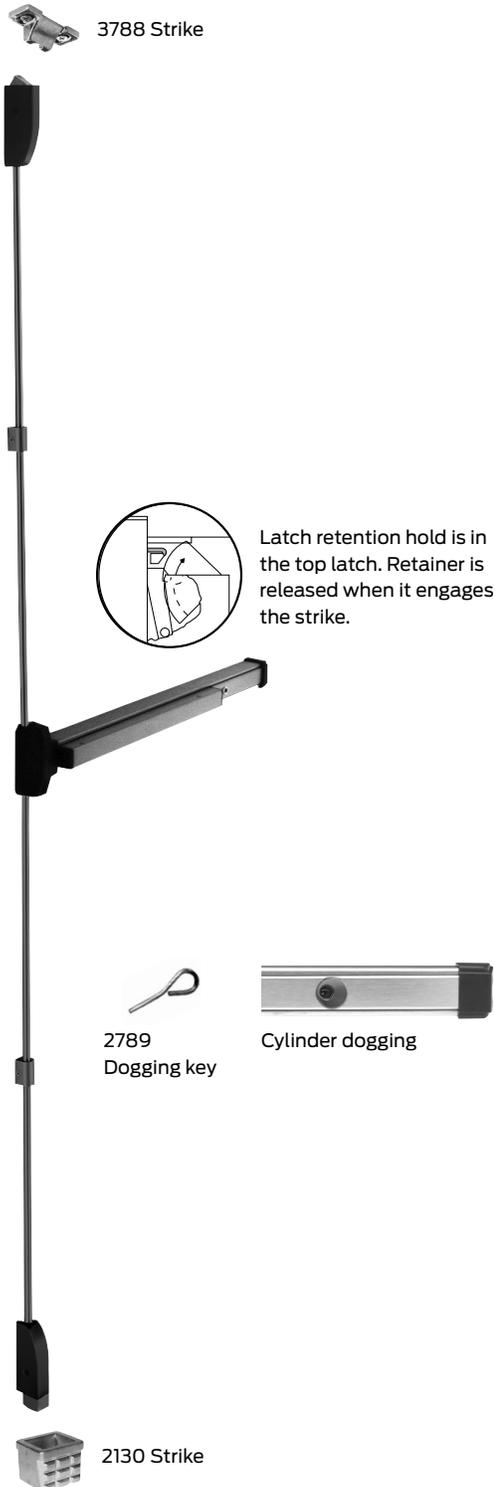
UL	"B" label (1 1/2" hr.); 4'0" x 7'2"
Functions	All functions built into "EO" device. All 19 series trim works with rim or vertical devices. See trim selection chart on pages 16 and 17.
Finishes	Power-coated aluminum-689; power-coated duranodic-695; stainless steel 630
Strikes	Stainless steel, F570 or F490
Latch bolt	Stainless steel, 3/4" throw
Deadlocking latch bolt	Standard
Sizes	3' for doors from 2'5" up to 3' 4' for doors from 3' up to 4'
Doors	1 3/4" thick wood or metal; Specify thickness if other than 1 3/4" (SNB must be specific on wood or composite doors.)
Projections	2 1/2" in neutral position, 1 7/8" in depressed position. Pushbar height is 1 3/4"
Sex bolts	When used with wood, composite or non-reinforced hollow metal, sex bolts must be specific, 3-#4122 (1/4"-20)SNB standard. An additional 2-#2729 (10-24) SNB must be specified.
ANSI	Certified ANSI A156.3 grade 1 standards
Shim kit	For glass lite applications; 1/4" thick specify SK 19-R-1/4"
161 Cutout	Device covers 161 cutout with KIL and Centron trims. Other trim requires cover plate.



# 19-V Series non-handed vertical rod device

## Panic exit hardware

Manufactured to the same standards as the 19 Rim, the 19-V exit device complies with most exit door requirements, and is fully reversible and surface applied. This device is regularly furnished with deadlocking top latch with latch retention and square bolt at bottom. The "EO" (exit only) device is ready to accept any trim function shown on page 16.



Device & trim	ANSI type	ANSI function
19-V-EO	2 or 5	01
19-V-DT	2 or 5	02
19-V-NL	2 or 5	03
19-V-K (or L)	2 or 5	08
19-V-K-NL (or KIL)	2 or 5	09

Note: For blank escutcheon specify BE.

### Specifications

Hand	Field reversible
Functions	All functions built into "EO" device. All 19 Series trim works with rim or vertical devices. See Trim Selection Chart on pages 16 and 17.
Finishes	Powder-coated aluminum-689; powder-coated duranodic-695; stainless steel 630
Strikes	3788 strike is surface applied standard, 2130 strike is mortised into floor.
Angle bracket	Use 4215 angle bracket in flush transom or rabbeted installations. Allows use of standard 3788 strike.
Latch bolt	Top stainless steel $\frac{3}{4}$ " throw. Bottom square bolt $\frac{1}{2}$ " throw
Deadlocking latch bolt	Standard
Dogging feature	Half turn hex dogging standard. No threaded parts to wear out.
Cylinder dogging	Specify "CD" prefix. Use $1\frac{1}{8}$ " long mortise cylinder with standard "A" cam
Stock sizes	3' for doors from 2'5" up to 3'. 4' for doors from 3' up to 4'.
Doors	$1\frac{3}{4}$ " thick, wood or metal. Specify thickness if other than $1\frac{3}{4}$ ".
Narrow stile doors	To $1\frac{3}{4}$ " N.S. aluminum. With control trim- $2\frac{1}{4}$ " min. stile
Projection	$2\frac{1}{2}$ " max., $1\frac{7}{8}$ " dogged
Fasteners	All mounting screws are concealed. Furnished with sheet metal screws. Machine screws available, specify AMS.
Sex bolts	3-#4122 ( $\frac{1}{4}$ "-20) SNB standard. Hollow core wood, light gauge hollow metal, etc. require additional sex bolts. 19-V: 6-#2729 #10-24 SNB; 19-V-LBR: 3-#2729 #10-24 SNB
ANSI	Certified ANSI A156.3 grade 1 standards.
19-V	Latch retention and 3788 strike top, deadbolt and 2130 flush strike bottom.
19-V-LBR	3788 strike top
Vertical rods	Furnished to length based on $40\frac{5}{16}$ " horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.
Shim kit	For glass lites applications; $\frac{1}{4}$ " thick specify SK-19-V- $\frac{1}{4}$ ".
161 cutout	Device covers 161 cutout with KIK/KIL and Centron trims. Other trim requires cover plate.

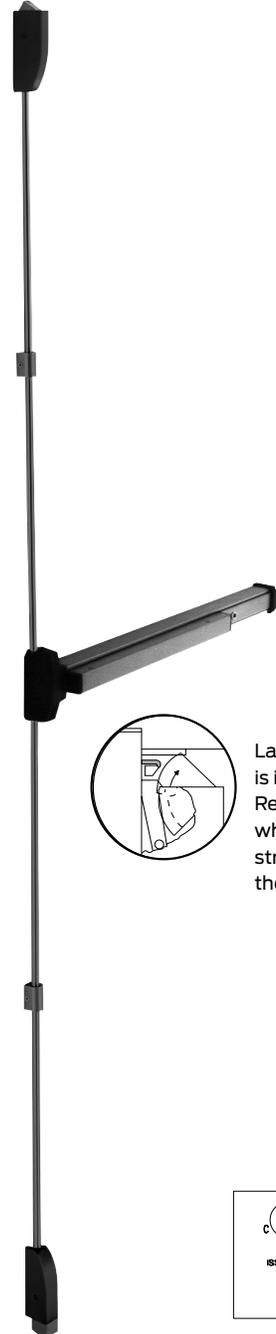
# F-19-V Series non-handed vertical rod device

## 🔥 Fire exit hardware

Manufactured to the same standards as the F-19 Rim, the F-19-V Fire exit device complies with most exit door requirements, and is fully reversible and surface applied. This device is regularly furnished with deadlocking top latch retention and square bolt at bottom. (This device is listed by UL for “B” label fire door installations.) The “EO” (exit only) device is ready to accept any trim function shown on page 16.



3788  
Strike



Latch retention hold is in the top latch. Retainer is released when it engages the strike. The door is in the closed position.



2130  
Strike

Device & trim	ANSI type	ANSI function
F-19-V-EO	2 or 5	01
F-19-V-DT	2 or 5	02
F-19-V-NL	2 or 5	03
F-19-V-K (or L or KIL)	2 or 5	08
F-19-V-K-NL (or L-NL or KIL-NL)	2 or 5	09

Note: For blank escutcheon specify BE.

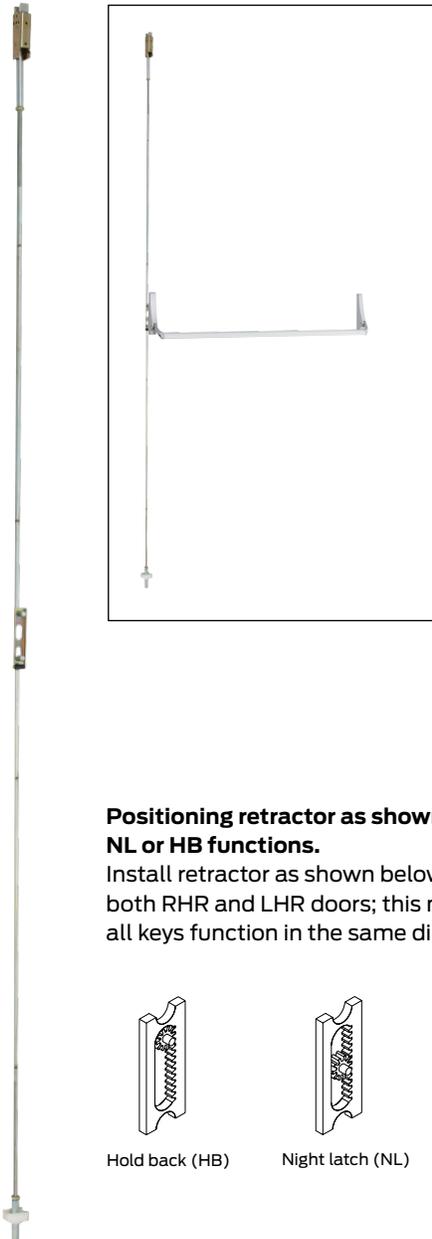
### Specifications

Hand	Field reversible
Functions	All functions built into “EO” device. All 19 Series trim works with rim or vertical devices. See Trim Selection Chart on pages 16 and 17.
Finishes	Powder-coated aluminum-689; powder-coated duranodic-695; stainless steel 630.
Strikes	3788 strike is surface applied. 2130 strike is mortised into floor.
Latch bolt	Top stainless steel 3/4" throw; Bottom square bolt 1/2" throw
Deadlocking latch bolt	Standard
Stock Sizes	3' for doors from 2'5" up to 3' 4' for doors from 3' up to 4'
Doors	1 3/4" thick, wood or metal; specify if other than 1 3/4" thick.
Projection	2 1/2" maximum
Fasteners	All mounting screws are concealed. All machine screws standard.
Sex bolts	3- #4122 (1/4"-20) SNB standard. Composite or non-reinforced wood, hollow metal require additional sex bolts. F-19-V: 6- #2729 #10-24 SNB; F-19-V-LBR: 3- #2729 #10-24 SNB
ANSI	Certified ANSI A156.3 grade 1 standards
F-19-V	Latch retention and 3788 strike top deadbolt and 2130 flush strike bottom
F-19-V-LBR	Latch retention and 3788 strike top
Vertical rods	Furnished to length based on a 40 5/16" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.
Shim kit	For glass lites applications; 1/4" thick specify SK-19-V-1/4"
161 cutout	Device covers 161 cutout with KIK/KIL and Centron trims. Other trim requires cover plate.

# 1990 Series concealed vertical rod crossbar device

## Tough crossbar design.

The classic look of 1990 has a long history of reliable performance. It is equipped with hardened steel latches and adjustable strike to ensure safety, security and quiet operation.

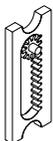


## Specifications

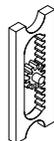
Hand	Field reversible, non handed
Functions	See trim selection chart on this page
Finishes	622, 626, 689, 695
Strikes	PB48 top
Latches	Hex bottom latch (standard), RL - rod bottom latch, PL - Pullman bottom latch, ES - electric strike top latch (optional). Device needs to be less bottom rod (LBR).
Dogging feature	Hex dogging standard
Cylinder	Rim, key entry (NL) or hold back (HB) available (field selectable)
Sizes	Field adjustable width, 41" crossbar standard extra length cross bar available
Doors	1 3/4" thick metal doors
Projections	4 3/8" extended, 2 1/2" depressed
Stile	1 3/4" minimum
Fasteners	All mounting screws are concealed.
ANSI	Certified ANSI A156.3 grade 1 standards
UL	UL305 listed
Vertical rods	7' standard, extension rod kits available up to 10'

## Positioning retractor as shown for NL or HB functions.

Install retractor as shown below for both RHR and LHR doors; this makes all keys function in the same direction.



Hold back (HB)



Night latch (NL)

Model	Trim Package	Type	Function
1990	No outside trim	6	01
1991	Pull only (9970)	6	02
1992	Cylinder only	6	03/04
1993	Pull and cylinder	6	02/03/04

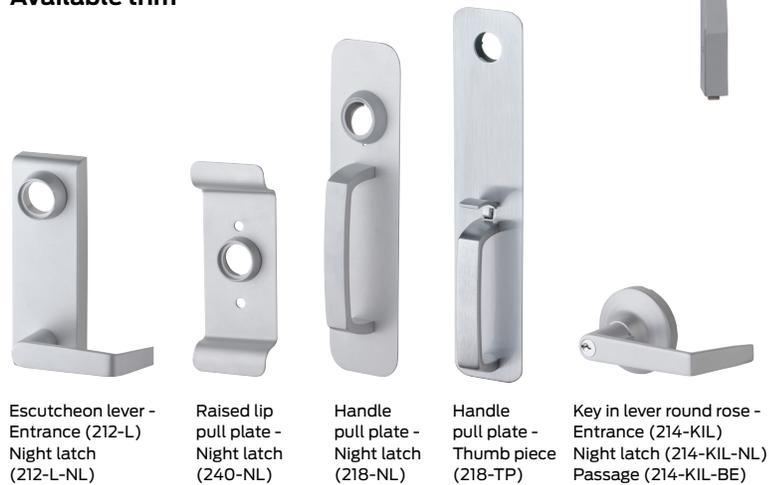
# 20 Series grade 1 exit device

Falcon® prides itself on dependable, cost-effective products that meet or exceed life safety and building requirements. The Falcon 20 Series, pushbar exit devices are ideal for light-to-medium duty door applications, such as commercial, multi-family, office, and retail. This Grade 1, affordable exit device is offered in multiple functions, lever, and trim options. With the Falcon 20 Series, you're choosing a quality performing exit device with all metal construction at an unmatched value.

The Falcon 20 Series exit device is an affordable and reliable choice. Offered in Rim, Surface Vertical, Rim Fire and Surface Vertical Fire that will accommodate 161 door prep, this series can meet the needs of your application. This series offers 8 different trim functions including 161 key in lever.



## Available trim



Escutcheon lever - Entrance (212-L) Night latch (212-L-NL)

Raised lip pull plate - Night latch (240-NL)

Handle pull plate - Night latch (218-NL)

Handle pull plate - Thumb piece (218-TP)

Key in lever round rose - Entrance (214-KIL) Night latch (214-KIL-NL) Passage (214-KIL-BE)

## Specifications

Hand	Rim devices and trim are non-handed; surface vertical devices easily field reversible
Functions	See available trim section on this page
Finishes	689, 695
Strikes	PB48 top
Latches	11/16" throw, deadlocking standard
Dogging feature	Hex key dogging standard on all panic devices
Sizes	3' device fits 29"-36" door size, 4' device fits 33" to 48" door size
Doors	Fits standard 1 3/4" thick door
Projections	2 7/16" extended 1 1/16" depressed
Stile	3 1/2" minimum stile width
Fasteners	Universal hardware pack for wood and hollow metal
ANSI	ANSI/BHMA A156.3 Grade 1 standards
UL	UL305 listed panic devices, UL10 listed 3-hour fire rated devices
Vertical rods	7' standard, extension rod kits available up to 9'

## 20 Series finishes

Color	US number	BHMA number
	Aluminum, sprayed SP28	689
	Satin stainless steel US32D	630

# 2090 Series rim crossbar device

## Classic looks in a rim exit device.

The 2090 provides balanced appearance, dependable performance and economical pricing, making it a popular choice where rim exit devices are required.

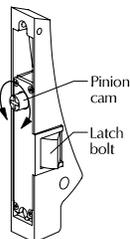


If cylinder is used, set pinion cam on back of active housing for hold-back (HB) or night latch (NL) operation.

### Hold-back (HB)

Turning key one complete rotation retracts latch bolt. If key is removed in this position, latch bolt stays retracted. Returning key to original position before removing allows latch bolt to extend.

To set for hold-back: Turn pinion cam until latch bolt starts to retract, then turn pinion cam the other way as far as it will go. Leave pinion cam in this position.



### Night latch (NL)

Turning key as far as it will go retracts latch bolt. Key must be returned to original position to be removed, leaving the door locked.

To set for night latch: Turn pinion cam until latch bolt starts to retract. Leave pinion cam in this position.

## Specifications

Hand	Specify RHR or LHR, not reversible
Functions	See trim selection chart on this page
Finishes	622, 626, 689, 695
Strikes	SD36 standard, see page 21 for other rim strikes available
Latch bolt	1/2" throw hardened steel
Dogging feature	Hex dogging standard
Cylinder	Rim, key entry (NL) or hold back (HB) available (field selectable)
Sizes	Field adjustable width, 41" crossbar standard extra length crossbars available.
Doors	1 3/4" thick metal or wood doors, specify if wood door; 9970 is for use on HM and Alum doors only; Not for use on wood doors
Projections	4 3/8" extended, 2 1/2" depressed
Stile	1 3/4" minimum
Fasteners:	All mounting screws are concealed
UL	UL305 listed
Mullions	Removable mullions are available for pairs of doors, see page 23.

Model	Trim package	Type	Function
2090	No outside trim	4	01
2091	Pull only (9970)	4	02
2092	Cylinder only	4	03/04
2093	Pull and cylinder	4	02/03/04

# Trim designs

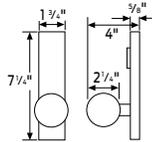
## Control trim

SP28, SP313 and US-32D

### K-control



**911K**  
BE  
NL

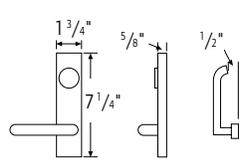


Key locks or unlocks trim. Knob retracts latch bolt when trim is unlocked.

### L-control



**L-Control-Dane**  
**912L**  
BE  
L-DT  
NL



Lever Projection: Quantum = 3"  
Sutro = 2 7/8"  
Dane = 2 7/8"



**L-Control-Sutro**  
**912L**  
BE  
L-DT  
NL



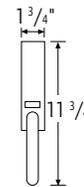
**L-Control-Quantum**  
**912L**  
BE  
L-DT  
NL

Key locks or unlocks trim. Lever retracts latch bolt when trim is unlocked. Dane, Quantum and Sutro levers return to within 1/2" of door.

### DT-control



**918 DT**  
Pull when dogged.



### NL-control



**918NL**  
Key retracts latch bolt.



### Pull



**9970**  
Can be used with all devices (not for use on wood doors).

9 1/4" center to center

2 7/8" projection

1 3/4" clearance

## Cover plates



**4167**

3 1/4" x 15" x .050  
Used with TP control & DT control  
Covers 161 & 86 cutouts



**4168**

3 1/4" x 7 1/2" x .050  
Used with EO device to cover No. 86 cutout for mortise lock



**4170**

3 1/4" x 7 1/2" x .050  
Used with K control, DT/K control, L control, or DT/L control  
Covers 161 & 86 cutouts

## Key-in-lever



**914KIL**

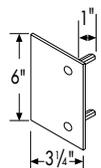


**914-KIL-IC**

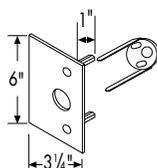
For 1-3/4" thick doors only

\*For type 86 cutout specify 4174 inside cover plate.

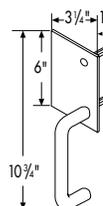
## Centron trim



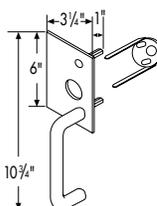
**930 EO**



**930 C**



**930 DT**



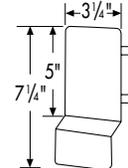
**930 NL**



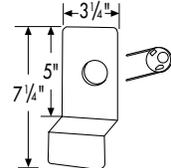
**Pull only 917 DT**

CTC - 5 1/2" round - 3/4" dia.  
Pull when dogged.

## Trident trim



**920 DT**



**920 NL**

# Trim chart

## Control

Device	DT	NL	T-BE	K	K-BE	K-DT
19-R/19-V	918	918	910	911	911	911
Cylinder type	—	rim	—	1 1/8" Mortise	—	—

Device	Dane*			Sutro*			Quantum*					
	L	L-BE	L-DT									
19-R/19-V	912	912	912	912	912	912	912	912	912	912	912	912
Cylinder type	1 1/8" Mortise	—	—									

## KIL

Device	KIL*	KIL-LS/LK <sup>1</sup>	KIL-NL*	KIL-IC*
19-R/19-V	914	914	914	914
	Falcon "C" keyway A23160	—	Falcon "C" keyway A23160	Small format

## Trident trim

## Centron

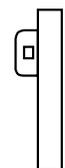
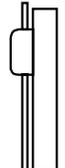
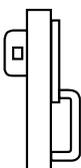
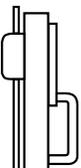
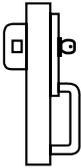
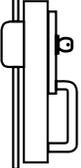
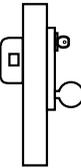
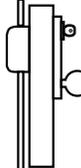
Device	NL	DT	C	DT	NL
19-R/19-V	920	920	930	930	930
Cylinder type	Rim	—	Rim	—	Rim

\* Specify hand.

Note: For "NL" night latch function on K and L add "NL" after trim number.  
All locking trim except KIL furnished less cylinder.

# Type and functions

## 19 Series devices

Functions (ANSI)	Rim devices ANSI type 1 and 4 (F)-19-R	Vertical rod devices ANSI type 2 and 5 (F)-19-V
<b>EO or N (01)</b> Exit only, no trim.	 19-R-EO	 19-V-EO
<b>DT (02)</b> Entrance by trim when actuating bar is dogged down.*	 19-R-DT	 19-V-DT
<b>NL (03)</b> Entrance by trim when latch bolt is retracted by key. Key removable only when locked.	 19-R-NL	 19-V-NL
<b>K or L or KIL (08)</b> Entrance by knob or lever. Key locks or unlocks knob.	 19-R-19-R-K or L or KIK or KIL	 19-V-K or L or KIK or KIL
<b>K(NL) or L(NL) (09) or KIL (NL)</b> Entrance by knob or lever only when released by key. Key removable only when locked.	 19-R-K (NL) or L(NL) or KIK(NL) or KIL(NL)	 19-V-K (NL) or L(NL) or KIK(NL) or KIL(NL)

\*Latch, device, and authorize degress monitors. (See electrified hardware catalog.)

\*Fire exit devices cannot be dogged down. Some codes permit electric dogging with fail secure circuitry.

# Type and functions

## Double doors

Device & trim	Length	Top strike	Bottom strike	Min. stile	Door opening width
(F) 19-V	3'0"	3788	2130	3 1/2"	2' 5 1/4" to 3'0"
(F) 19-V	4'0"	3788	2130	3 1/2"	3'0" to 4'0"

Note: For (F-) 19-V-LBR use "V" information less bottom strike. F-19-V-LBR requires use of auxiliary fire latch.

## Single doors with 5/8" stop

Device & trim	Length	Strike	Min. stile	Door opening width
19-R	3'0"	F570	3 1/2"	2'5 1/4" to 3'0"
		565	1 3/4"*	2' 4 3/4" to 2' 9 1/4"
F-19-R	3'0"	F570	3 1/2"	2'5 1/4" to 3'0"
19-R	4'0"	F570	3 1/4"	3'0" to 4'0"
		565	1 3/4"*	3'0" to 3'9 3/4"
F-19-R	4'0"	F570	3 1/4"	3'0" to 4'0"

\*For EO and NL functions only. 2- 1/4" minimum stile required for control trim.

## Dimensions:

- Recommended height from finished floor - 40 5/16" at CL
- Touchbar projections: neutral - 2 1/2" depressed - 1 7/8"
- Extension rods or longer top rods available upon request
- Specify door height
- Dummy touchbar available. Specify 190 DT 3' or 4'
- Overall length: 3' 30 1/2"- 4' 42 5/8"
- Changes for minimum door size for charts on left:
  - For cylinder dogging, add 2 1/4" to minimum door size
  - For exit alarm, add 4 1/2" to minimum door size
  - To fit on smaller door, consult factory

## Double doors with mullion

Device & trim	Length	Strike	Min. stile	Door opening width	Fire	Panic
19-R	3'0"	F570	3 1/2"	2'5 1/4" to 3'0"	-	2923 <sup>1</sup>
		565	3 3/4"	2'4 3/4" to 2'9 1/4"	-	4023/ KR4-23
			3 1/8"		-	2923 <sup>1</sup>
F-19-R	3'0"	F-570	3 3/4"	2'5 1/4" to 3'0"	(F)4023	-
			3 3/8"		KR(F)4023	-
19-R	4'0"	F570	3 1/2"	3'0" to 4'0"	-	2923 <sup>1</sup>
			3 3/4"		-	4023/ KR4-23
		565	3 1/8"	3'0" to 3'9 3/4"	-	2923 <sup>1</sup>
			3 3/8"		-	4023/KR4023
F-19-R	4'0"	F-570	3 3/4"	3'0" to 4'0"	(F)4023	-
					KR(F)4023	-

<sup>1</sup> To cover 161 cutout on double door installation, specify 2923 mullion with 565 strike.

# Door applications

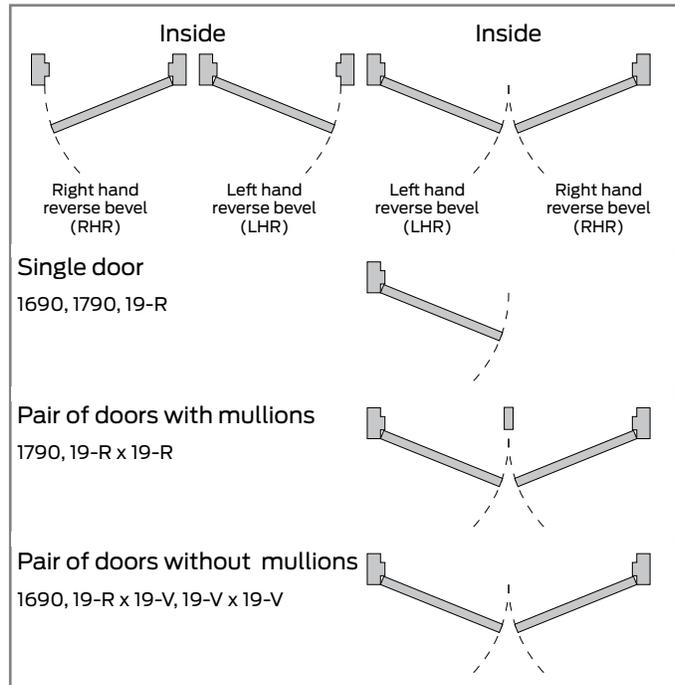
## Door thickness

All devices and components supplied for 1 3/4" doors standard. Specify door thickness if other than 1 3/4".

Number	BHMA/ANSI function
01	Exit only, no trim.
02	Entrance by trim when actuating bar is locked down.
03	Entrance by trim when latch bolt is retracted by key; key removable only when locked.
04	Entrance by trim when latch bolt is retracted by key or set in a retracted position by key.
08	Entrance by knob or lever; key locks or unlocks knob or lever.
09	Entrance by knob or lever only when released by keys; key removable only when locked.

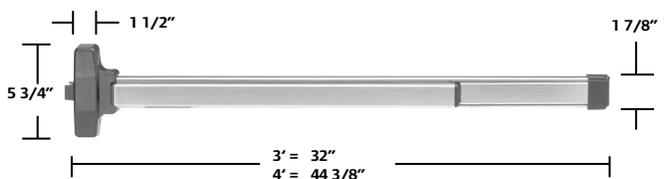
U.S. standard	BHMA	Description
US28	628	Anodized aluminum – clear
DC13	710	Anodized aluminium – dark bronze
DC35	711	Anodized aluminum – black
P28	689	Painted aluminum – silver
P13	695	Painted aluminum – dark bronze
P35	622	Painted aluminum – black
US3	666	Bright brass
US4	667	Satin brass
US9	705	Bright bronze
US10	668	Satin bronze
US10B	703	Oxidized satin bronze
US14	669	Bright nickel
US15	670	Satin nickel
US26	672	Bright chrome
US26D	702	Satin chrome

## Door application chart



Device	Label	Door opening	Application
<b>Hollow metal door</b>			
F-19-R	1 1/2 hr. "B"	4' x 7'2" 8' x 7'2"	Single, pair, same egress w/ F-4023 mullion and KR-F-4023
F-19-V	1 1/2 hr. "B"	8' x 10'	Pair, double egress, same egress
F-19-V-LBR	1 1/2 hr. "B"	8' x 8'	Pair, double egress, same egress
<b>Wood door</b>			
F-19-V-LBR	20 min.	8' x 8'	Wood or comp., pair, double egress, same egress
F-19-R	1 1/2 hr. "B"	4' x 7'2" 8' x 7'2"	Single, pair, same egress w/ F-4023 mullion and KR-F-4023

## 19 Device dimensions:



# Strikes

## 1690 Concealed vertical rod device



### PB48

Top strike for 1690 device. Packed with three 0.050" thick shims. 1 1/16" x 1 1/16" x 7/16" (H x W x D)

## 1790 Rim device



### STK45

Strike for inactive leaf, pair of doors with 1790 device. 3 1/4" x 1 5/16" x 1/4" (H x W x D)



### TD35

Strike for single doors, 1790 device. Includes 1/8" shim. 3" x 2" x 1/2" (H x W x D)

## (F) 19-R Rim devices



### F570

Standard strike. 2 5/8" x 1 1/4" x 13/16" (H x W x D)



### F490

Optional strike. 2 5/8" x 1 1/4" x 7/8" (H x W x D)



### 565

Adjustable surface mounted for use with blade or applied stops. Mounts flush for 1/2" stop height.



### 571/571A

Used on inactive leaf for device on active leaf of pair of doors without removable mullion. 571 keeps 2 5/16" backset. 571A is trimmer and projects less into opening.

## (F) 19-V Surface vertical rod devices



### 3788

Top strike for 19-V.



### 2130

19-V bottom strike for grouting into concrete or masonry floors.



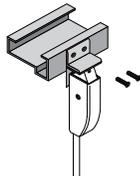
### 4155

19-V optional bottom strike.



### 2126A

19-V optional bottom strike.



### 4215

Angle bracket for 19-V devices flush transom applications. Does not require elimination of latch retention feature.



### Extension rods

Extension rods are available in 12", 24" and 36" lengths in all finishes. Both ends tapped and all-thread included as connector.

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# Power supply



The PS900 series is a consolidated line of power supplies and accessories that offer enhanced flexibility and functionality specific to the changing needs of the access control market. The PS900 series can be used in a variety of applications to convert high voltage AC power into the low voltage DC outputs required by most access control devices. The PS900 series protects devices downstream by providing Class 2\*, filtered and regulated power. The full line is UL294 certified.

Note: PS906 can provide Class 2 rated outputs when used with 900-8P distribution board.

## Features:

- Constant output rating at both 12 VDC and 24 VDC provides superior performance ; includes field selectable jumper
- Polarized connectors for option boards eliminate need for racks and side connectors
- Flat mounting of option boards provides easier access to terminal blocks for connection of electrified devices
- High voltage protective cover
- Battery back-up board auto-selects voltage
- Fire alarm relay can be configured to provide either switched or un-switched outputs from a power supply
- PS914 designed with high in rush current for powering electrified panic devices
- Universal 120-240 VAC input
- Low voltage DC, regulated and filtered
- Electronic power limiting foldback circuit for AC current overload protection
- Fused primary input
- AC status monitor- isolated SPDT contacts
- AC input and DC output LED status indicators
- Cover mounted AC input indication
- Hinged cover with lock down screws

## Certifications:

- UL 294 certified—the standard for access control
- Class 2 rated\*

\* Except PS906, output rating exceeds Class 2 power limits

Once power is converted to low voltage DC, the PS900 Series offers a variety of distribution options, including basic fuse

protection, simple relay, and advanced logic providing complex sequencing and timing functions.

\* PS906 can provide Class 2 rated outputs when used with 900-8P distribution board.

	PS902	PS904	PS906	PS914
<b>Number of connectors on power supply for the following:</b>	<b>2 amps</b>	<b>4 amps</b>	<b>6 amps</b>	<b>4 amps</b>
Distribution boards	1	2	3	2
Battery back-up board	1	1	1	1

Note: One fire alarm board can be connected directly to the PS902. If a fire alarm board is desired for the PS904, PS906 or PS914 it can be connected to a distribution board.

## Applications:

The PS900 series of power supplies works with many electrified devices including Falcon exit devices, electromagnetic locks, hardwired locks, electrified mechanical locks, electrified strikes and many other products.

## Accessories:

The PS900 series features seven option boards for use in a variety of applications. All PS900 series power supplies option boards are UL 294 certified.

### Option boards:

**900-4R:** 4 relay controlled output board to power multiple devices

**900-4RL:** 4 relay distribution board with logic is field configurable for time delay function, auto operator, security interlock

**900-8F:** Provides 8 individually fuse-protected outputs, giving the flexibility to power multiple devices and provide another layer of protection

**900-FA:** Emergency interface relay integrates with fire alarm and is used to cut power in case of emergency

**900-BB:** Battery backup

**900-2RS:** 2 relay EL panic device control board (PS914 only)

**900-BBK:** Battery backup kit includes two 7A/hr batteries and provides up to four hours of backup power when cycled every 5 minutes at full load.

### Wire selection size / type

Run length	EL device w/ EPT or door loop
0-100 ft	14 gauge standard wire
101-200 ft	12 gauge standard wire
Run length	EL device w/ electric hinge / pivot
0-75 ft	14 gauge standard wire
76-150 ft	12 gauge standard wire
Wire selection	Switch wire size
1200 ft max.	16 gauge

# Accessories



F-4023 Shown

## Removable mullion

- Removable mullions are easily removed and reinstalled for full width access
- Increased security and tighter closure
- Minimizes door warp age and sag
- Regulates the traffic flow in-and-out
- Rim devices are used on both leaves, attaining a perfect symmetrical opening
- Mullion assembly consists of a mullion, top and bottom fittings and mounting package
- Mullion can be cut on the job for doors under stock lengths

## 2923, (F)4023, (F)KR4023 Mullion

These steel mullions can be used with the 19-R and F-19-R devices. Soffit adapters are available for the 2923 and 4023 mullions. The F4023 and F-KR4023 fire-rated mullions also include four stabilizer blocks as required for labeled installations. Strikes are not included with mullion and should be specified with the 19-R or F-19-R device, see page 11 for strike information. KR mullions require 1 1/4" mortise cylinder with standard "A" cam. The mullion fittings are made from ductile iron. The (F)4023 and (F)KR4023 are 2" wide and 3" deep. The 2923 is 1 1/2" wide and 2 1/2" deep. Furnished in prime coat.

## Mullions



RM 170



Mullion brackets



525 Mullion stabilizer for RM170

## RM 170 Removable mullion

RM 170 for use with 1790 series. Comes complete with adjustable mortised strikes and security clips. Compatible with doors 7' to 10' and for use with stiles as narrow as 1 3/4". Made of aluminum, available in anodized aluminum or bronze finishes. Mullion is 3 1/2" deep, 1" wide on door side, and 1 5/8" at the widest point.

## Mullion strikes

### STK170

Adjustable mortise strikes (pair)

2 7/8" tall

1 3/4" wide

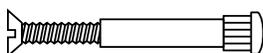
1" thick

## Sex bolts

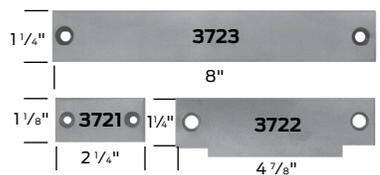
Sex bolts are available for 1 3/4" door thickness. Screws to fit are available in 3/4" and 2" lengths to cover a wide range of door thicknesses.

2729 (#10-24 thread)

4122 (1/4"-20 thread)



## Filler plates



## 3721/3722/3723

Steel filler plates

3721 Cylindrical lock front filler

3722 ASA strike filler - set no. SC for 161 cutout

3723 Mortise lock front filler

3722 ASA strike filler - set no. SM for 86 cutout

# Accessories

## MEL application

### MEL electronic specifications

#### MEL electric load

Voltage	24 VDC
Current	1.0 A Inrush (0.5 sec) 0.14 A holding

#### MEL wire run lengths

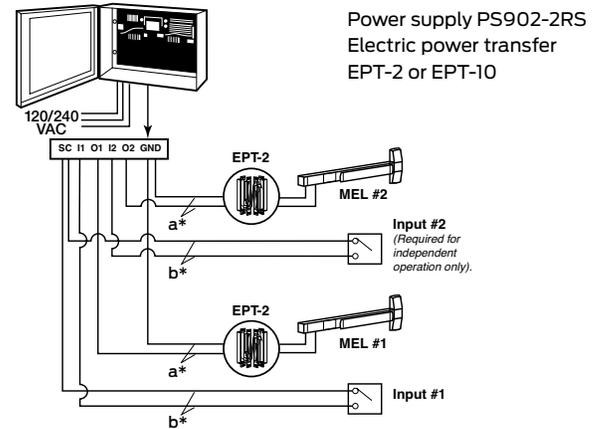
Distance (one way)	Wire Gauge
200'	18 AWG
320"	16 AWG
500'	14 AWG
800'	12 AWG

## Accessories

The MEL has a low inrush current = 1.0 amps, so it can be used with standard Schlage power supplies. When powering multiple components, verify that the amperage requirements of all components combined does not exceed the power supply output rating, see table below for output ratings.

Schlage PS902	Schlage PS904	Schlage PS906
Up to 2 amps	Up to 4 amps	Up to 6 amps

### MEL wire run lengths



The MEL device is compatible with the following equipment: PS900 Series power supplies - PS902, 904, 906, 914; 900 Series Option Boards - 900-2RS, 900-4R, 900-4RL, 900-2Q; PS873 Power Supply including 871-2, 871-2Q, 873-4TD/AO Option Boards. The power transfer is also sold separately. Please refer to Von Duprin catalog for more information on EPT-2/EPT-10 power transfers and PS900 series power supplies.

# How to order

## 1690/1790

		<b>MEL</b>	<b>1690</b>	<b>EO</b>	<b>36"</b>	<b>US28</b>	<b>RL*</b>
<b>HH</b>	Hurricane device*						
<b>RX</b>	Request to exit switch						
<b>MEL</b>	Motorized electric latch retraction						
<b>ED</b>	Electric dogging						
<b>1690</b>	See model numbers on page 8						
<b>1790</b>	See model numbers on page 9						
<b>EO</b>	Exit only						
<b>DT</b>	Dummy trim						
<b>NL-HBOP</b>	Cylinder assembly—optional pull						
<b>NL-HBP</b>	Cylinder assembly with 9970						
<b>30"</b>	30" (optional)						
<b>36"</b>	36" (standard)						
<b>42"</b>	42" (optional)						
<b>48"</b>	48" (optional)						
<b>628</b>	<b>711</b>	<b>612</b>	<b>626</b>				
<b>710</b>	<b>605</b>	<b>625</b>					
<b>1690 Only</b>							
<b>HEX</b>	Standard bottom latch						
<b>RL</b>	Rod bottom latch						
<b>PL</b>	Pullman bottom latch						
<b>ES</b>	Top latch for use with electric strike						
<b>LESS RODS</b>	Less rods (retrofit of 1990 device)						
<b>LBR</b>	Less bottom rods						

\*Applies to 1690 Only

# 19 Series

	CD	F	19	V	L-DANE	US32D	3'	L	HR	LBR	SNB	WD
<b>Prefixes</b>												
CD	Cylinder dogging											
KOR	Key bypass switch											
<b>Rating</b>												
F	Fire exit hardware											
Blank	Panic exit hardware											
<b>Device Series</b>												
19	Touch bar device, narrow stile											
<b>Device Type</b>												
R	Rim											
V	Surface vertical rod											
<b>Trim Function</b> (see Trim pages for all functions)												
EO	Exit only	K	Knob									
DT	Dummy trim	L	Lever (dane standard)									
NL	Night latch	TL	Thumb lever									
C	Cylinder trim less pull	KIL	Key in lever									
<b>Finish</b>												
630												
689												
695												
<b>Door Width</b>												
3'	Standard default											
4'												
-	Specify exact door width											
<b>Handing</b>												
RHR	Right hand reverse											
LHR	Left hand reverse											
<b>Less bottom rod</b>												
LBR	Less bottom rod											
LBR-AFL	LBR w/auxiliary fire latch											
<b>Other device options</b>												
RBB	Round bottom bolt											
SSTB	Stainless steel touch bar											
VRP	Black pad on touch bar											
TAC	Tactile warning											
<b>Accessories</b>												
CYL	Cylinder											
SNB	Sex bolts											
SK	Shim kit											
AMS	All machine screws											
<b>Other miscellaneous door information</b>												
HMD	Hollow metal door											
HMF	Hollow metal frame											
WD	Wood door											
WDF	Wood frame											
ALD	Aluminum door											
ALF	Aluminum frame											
SCDC	Steel channel door construction											
-	Specify other door or frame											
-	Material information											
-	Door height											
-	Door thickness											
-	Door undercut											
-	Door label (20 min, 45 min, 90 min 1-1/2 hr)											
-	Stile width											
-	Frame stop height											
SGL	Single door											
PR	Pair of doors swinging same direction											

# 20 Series

		20	R	EO	SP28	3'
<b>Rating</b>	F – Fire exit Blank – Panic exit					
<b>Series</b>	20					
<b>Type</b>	R – Rim V – Surface vertical rod					
<b>Function</b>	EO – Exit Only					
<b>Finish</b>	689 630					
<b>Door width</b>	3' 4'					

		212	L	SP28
<b>Type</b>	212 – Lever trim 214 – Key-in-lever 218 – Handle pull plate 240 – Raised lip pull plate			
<b>Function</b>	L, L-NL KIL, KIL-NL, KIL-BE NL, TP			
<b>Finish</b>	689 630			

## About Allegion

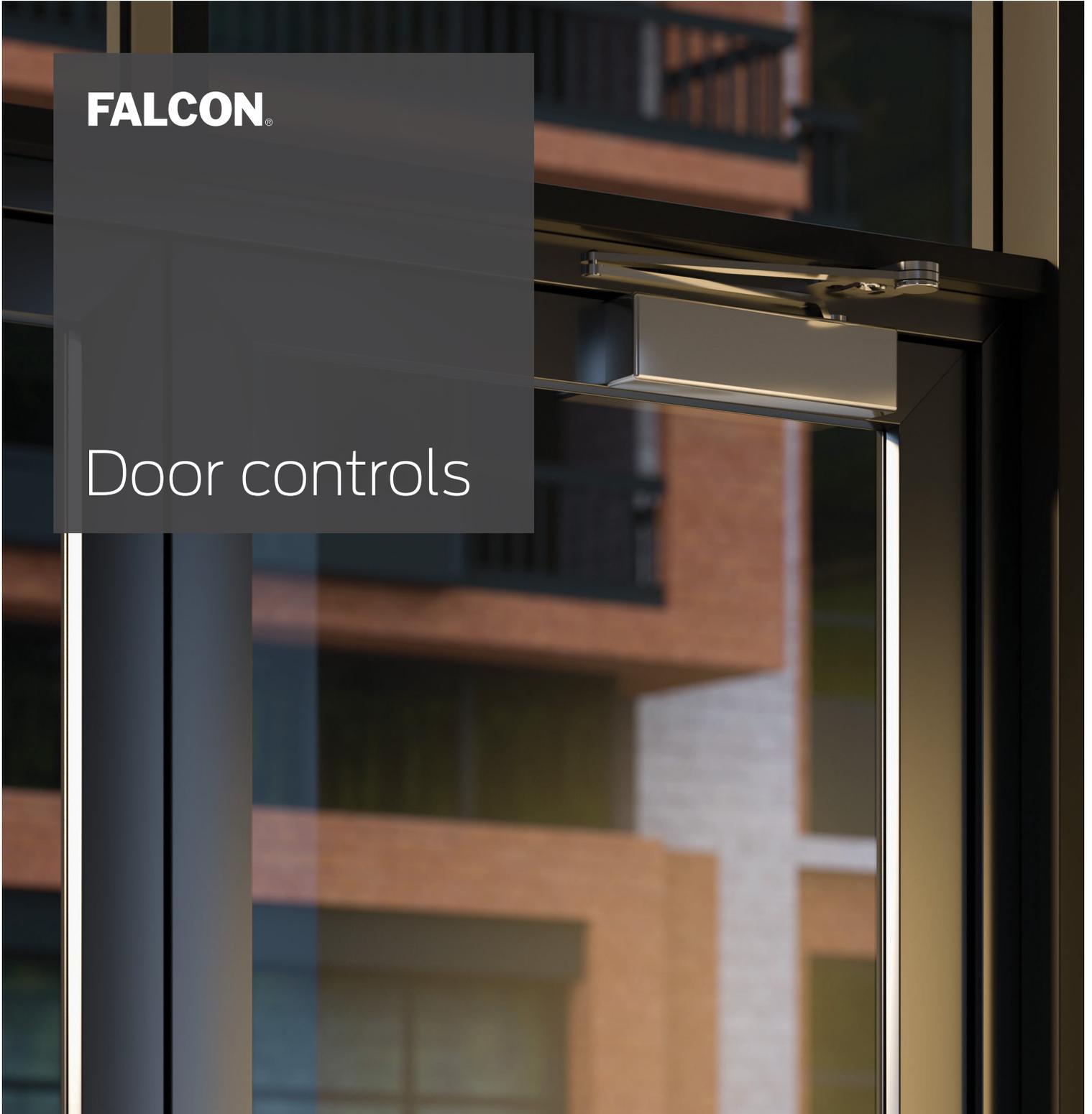
At Allegion (NYSE: ALLE), we design and manufacture innovative security and access solutions that help keep people safe where they live, learn, work and connect. We're pioneering safety with our strong legacy of brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Our comprehensive portfolio of hardware, software and electronic solutions is sold around the world and spans residential and commercial locks, door closer and exit devices, steel doors and frames, access control and workforce productivity systems.

For more, visit [www.allegion.com](http://www.allegion.com)

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN

**FALCON®**

Door controls



# Table of contents

4-7	SC70A Series
8-11	SC80A Series
12-15	SC60A Series
16-19	SC90A Series
20-22	OHC100 Series
22-24	8200 Series
25-27	How to order
28	Cylinder options and competitive cross reference
29	Sample specifications



# The Falcon difference

Safety, security and uncompromising value

At Falcon, we know that every product you sell not only has to meet local building codes, but also your expectations for performance and quality. We take your expectations seriously, and that's why we build our door closers to deliver durability, convenience and unmatched value. After all, we've built our reputation on the same standards that you have – providing quality products at a reasonable price delivered on time. It's the way we do business and it's what makes Falcon door closers a powerful choice no matter what your project.



# SC70A Series



Falcon SC70A Series heavy duty closers are built for applications that demand reliable door control and easy maintenance. The SC70A Series closers are ANSI grade 1, ADA compliant and deliver tough performance. Choose the SC70A for interior or exterior doors in retail shops, restaurants, small offices and many other high traffic applications.

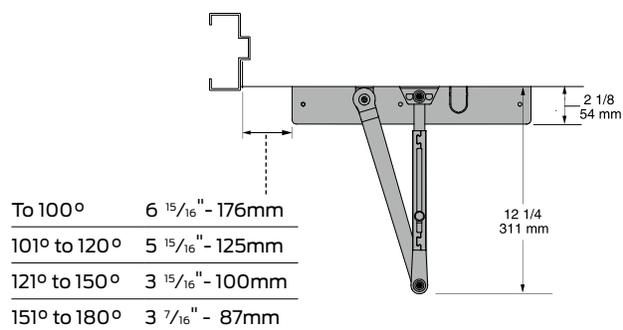
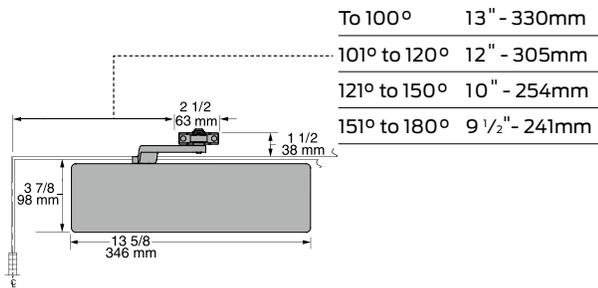
## Standard features

- Fully adjustable sizes 1-6
- Separate adjustable general speed, latch speed and backcheck
- Closer mounts hinge side, top jamb or parallel arm when either the RW/PA or HW/PA arm is specified
- Non-handed for left or right swinging doors
- 1 1/2" diameter heat treated steel piston
- Double heat-treated pinion
- Universal screw pack for aluminum, hollow metal, and wood doors, includes self reaming and tapping screws
- Staked valves
- Meets ANSI A117.1
- Listed ANSI/BHMA A156.4, grade 1
- UL listed and compliant to UL10C and UBC 7-2 (1997)
- Fast and easy installation
- 10-year warranty
- Available in aluminum, brass, dark bronze, and matte black

## Listings and ratings

The Falcon SC71A is UL approved and compliant with the UL 10C and UBC 7-2 (1997) fire test. Additionally, the SC71A is rated ANSI/BHMA A156.4, grade 1 and designed to meet the American Disabilities Act (ADA) and ANSI A117.1

## SC70A Series hinge (pull side)



**Butt hinges** should not exceed 5" (127mm) in width.

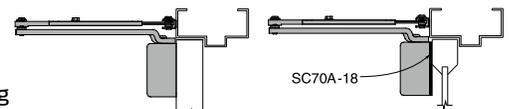
**Auxiliary stop** is recommended at hold-open point or where a door cannot swing 180°.

**Reveal** should not exceed 3/4" (19mm) for regular arm or hold-open arm.

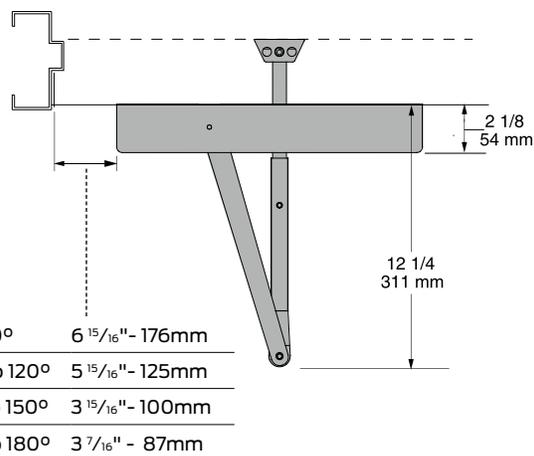
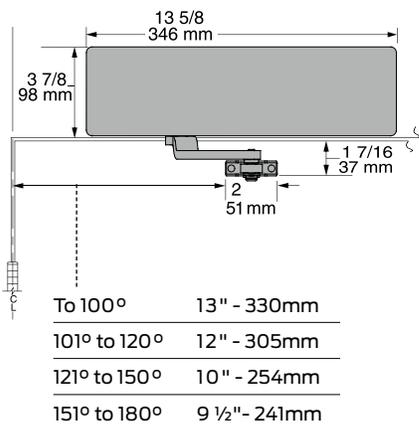
**Top rail** less than 3 7/8" (98mm) requires plate SC70A-18.

**Clearance** of 2 1/8" (54mm) behind door required for 90° installation.

**Delayed action** add suffix "DEL" to selected cylinder (ex. SC70A DEL). Delays closing from maximum opening to approx. 70°, with adjustable delay time.



## SC70A Series top jamb (push side)



**Butt hinges** should not exceed 5" (127mm) in width.

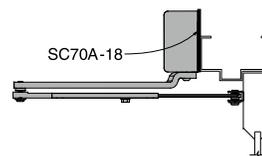
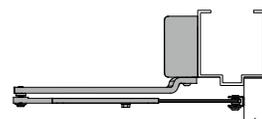
**Auxiliary stop** is recommended at hold-open point or where a door cannot swing 180°.

**Reveal** should not exceed 3 1/4" (83mm) for regular arm or hold-open arm.

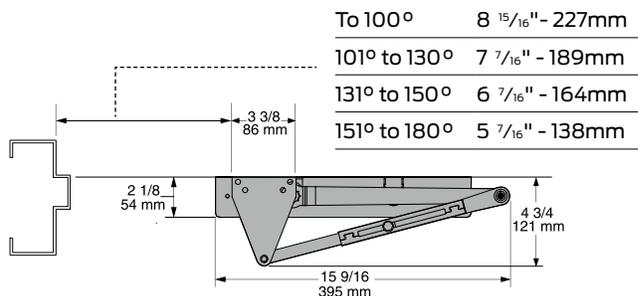
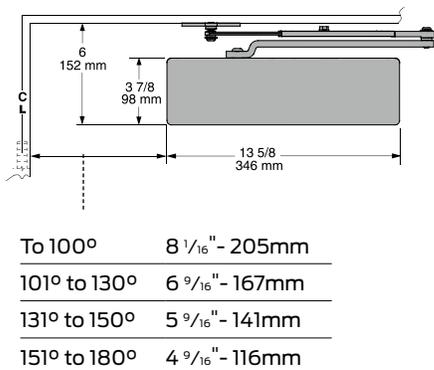
**Top rail** of 1 1/2" (38mm) required.

**Head frame** less than 3 7/8" (98mm) requires plate SC70A-18.

**Delayed action** add suffix "DEL" to selected cylinder (ex. SC70A DEL). Delays closing from maximum opening to approx. 70°, with adjustable delay time.



## SC70A Series parallel (push side)

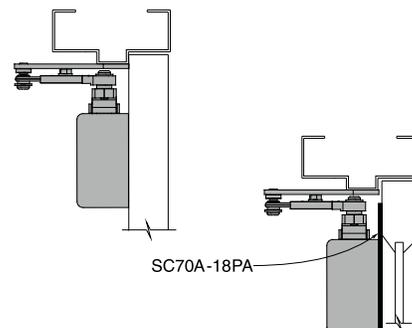


**Butt hinges** should not exceed 5" (127mm) in width.

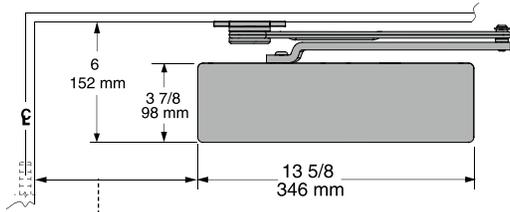
**Auxiliary stop** is recommended at hold-open point or where a door cannot swing 180°.

**Top rail** less than 6" (152mm) measured from stop requires plate SC70A-18PA.

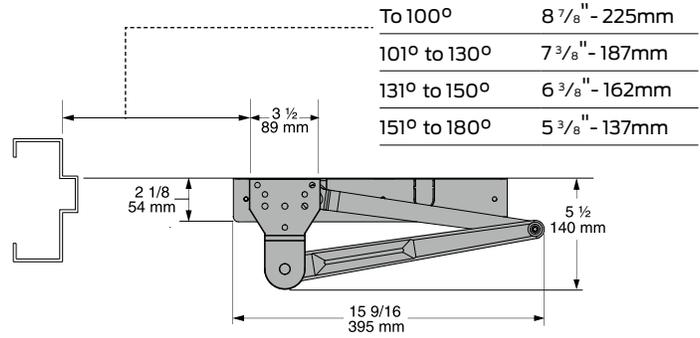
**Delayed action** add suffix "DEL" to selected cylinder (ex. SC70A DEL). Delays closing from maximum opening to approx. 70°, with adjustable delay time.



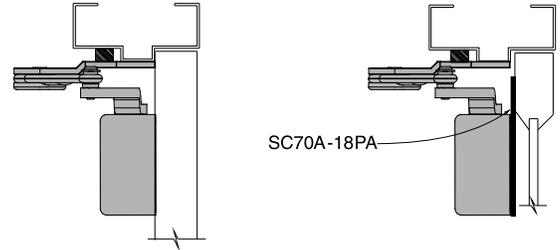
## SC70A Series heavy duty (parallel)



To 100°	8 1/16" - 205mm
101° to 130°	6 9/16" - 167mm
131° to 150°	5 9/16" - 141mm
151° to 180°	4 9/16" - 116mm



To 100°	8 7/8" - 225mm
101° to 130°	7 3/8" - 187mm
131° to 150°	6 3/8" - 162mm
151° to 180°	5 3/8" - 137mm



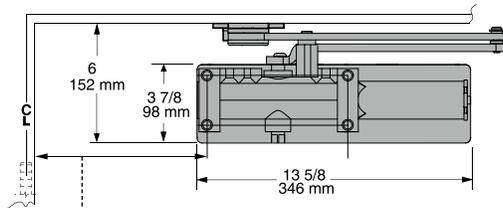
**Butt hinges** should not exceed 5" (127mm) in width.

**Auxiliary stop** is recommended at hold-open point, where a door cannot swing 180°, or where dead stop or spring-n-stop arm is not used.

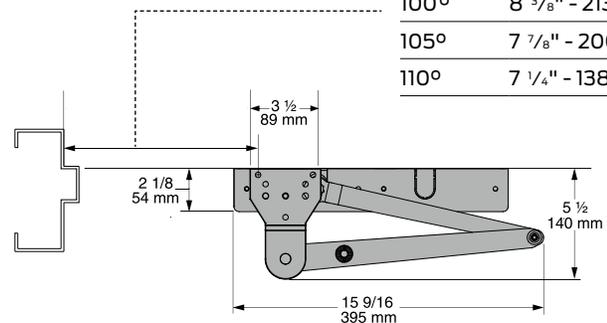
**Top rail** less than 6" (152mm) measured from stop requires plate SC70A-18PA.

**Delayed action** add suffix "DEL" to selected cylinder (ex. SC70A DEL). Delays closing from maximum opening to approx. 70°, with adjustable delay time.

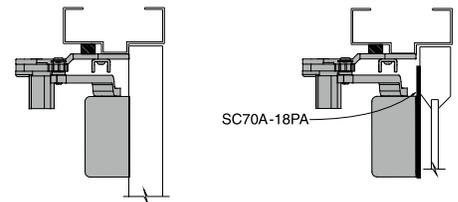
## SC70A Series dead stop HO (parallel)



85°	10 1/8" - 257mm
90°	9 1/4" - 235mm
95°	8 5/8" - 219mm
100°	7 7/8" - 200mm
105°	7 3/8" - 187mm
110°	6 3/4" - 171mm



85°	10 5/8" - 270mm
90°	9 3/4" - 248mm
95°	9 1/8" - 232mm
100°	8 3/8" - 213mm
105°	7 7/8" - 200mm
110°	7 1/4" - 138mm



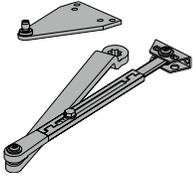
**Butt hinges** should not exceed 5" (127mm) in width.

**Top rail** less than 6" (152mm) measured from stop requires plate SC70A-18PA.

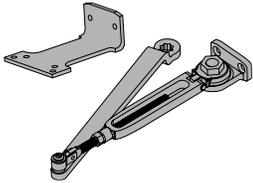
**Delayed action** add suffix "DEL" to selected cylinder (ex. SC70A DEL). Delays closing from maximum opening to approx. 70°, with adjustable delay time.

## Arm types

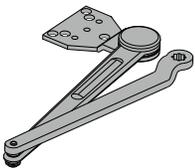
All SC70A Series closers come with full cover, standard arm and screw pack.



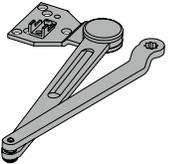
**Regular arm, SC70A-3077PA**  
Non-handed arm with adjustable forearm assembly to accommodate a range of doors and frame reveal conditions. Mounts hinge side, top jamb or parallel arm. PA shoe included to allow installation in a parallel arm configuration.



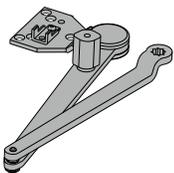
**Hold-open arm, SC70A-3049PA**  
Optional, non-handed, hold open arm with adjustable forearm assembly to accommodate a range of doors and frame reveal conditions. Mounts hinge side, top jamb or parallel arm. PA shoe included to allow installation in a parallel arm configuration.



**Heavy duty regular arm, SC70A-3077HD**  
Optional, non-handed, stamped, heavy duty, parallel arm for use in high-traffic applications.



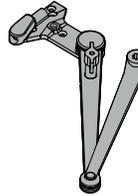
**Dead stop arm, SC70A-3077DS**  
Optional, non-handed, stamped, heavy duty, parallel arm includes a positive mechanical stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions.



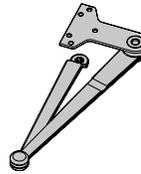
**Dead stop hold-open arm, SC70A-3049DS**  
Optional, non-handed, stamped, heavy duty, hold-open parallel arm includes a positive mechanical stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions. Also includes a manually selective hold-open function.



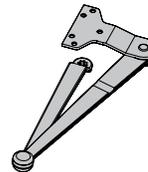
**Spring-n-stop arm, SC70A-3077SS**  
Optional, non-handed, extra heavy-duty, forged parallel arm includes an integral spring stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions.



**Spring-n-stop hold-open arm, SC70A-3049SS**  
Optional, non-handed, extra heavy-duty, forged parallel arm includes an integral spring stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions. Also includes a manually selective hold-open function.



**Forged arm, SC70A-3077FA**  
Optional, non-handed, extra heavy-duty arm with parallel arm bracket. Includes a forged steel main arm and forearm for maximum durability in high traffic and/or abusive applications. Parallel Arm (PA) bracket is a permanent feature, installation on "push" side of the door in a parallel arm type configuration is required.

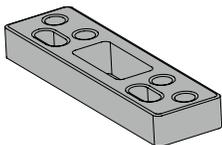


**Forged arm with hold open, SC70A-3049FA**  
Optional, left or right handed, extra heavy-duty arm with parallel arm bracket that incorporates a hold open feature. Includes a forged steel main arm and forearm for maximum durability in high traffic and/or abusive applications. Parallel Arm (PA) bracket is a permanent feature, installation on "push" side of the door in a parallel arm type configuration is required.

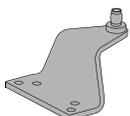
## Installation accessories



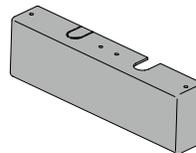
**Soffit shoe support, SC70A-30**  
Provides anchorage for fifth screw used with soffit shoe, where reveal is less than 3 1/16" (78mm).



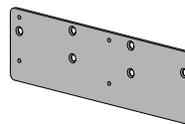
**Blade stop spacer, SC70A-61**  
Required to lower parallel arm shoe to clear 1/2" (13mm) blade stop.



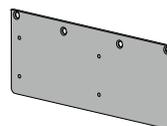
**Auxiliary shoe, SC70A-62A**  
Requires a top rail of 7" (178mm). Optional shoe replaces PA shoe for parallel arm mounting of regular arm with overhead holder/stop.



**Cover, SC70A-72**  
Standard, non-handed, full plastic cover encloses the closer body.



**Plate, SC70A-18**  
Required for hinge side mount where top rail is less than 3 7/8" (98mm). Required for top jamb mounting where head frame is less than 3 7/8" (98mm).



**Plate, SC70A-18PA**  
Required for parallel arm mounting where top rail is less than 6" (152 mm), measured from the stop. Plate requires 1 3/4" (44mm) minimum top rail measured from stop.

# SC80A Series



Medium-duty applications like retail storefronts, cafes and clinics that need a closer that makes door operation smooth and secure. The Falcon SC80A Series brings ANSI grade 1 durability and reliable performance to interior and exterior doors. An adjustable design ensures flexible installation and ADA compliance.

## Standard features

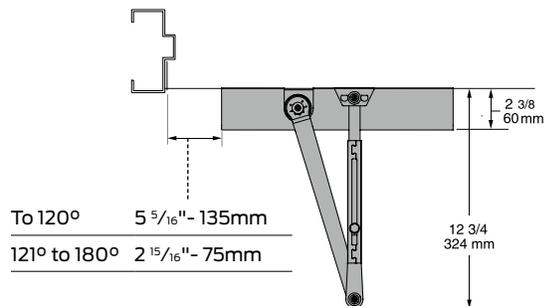
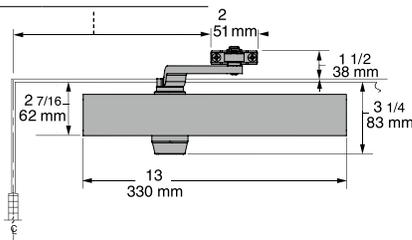
- Single piece cast aluminum body
- Fully adjustable sizes 1-6
- Separate adjustable general speed, latch speed and backcheck
- Closer mounts hinge side, top jamb or parallel arm when either the RW/PA or HW/PA arm is specified
- Non-handed for left or right swinging doors
- 1 1/4" diameter heat treated steel piston
- Heat-treated pinion
- Universal screw pack for aluminum, hollow metal, and wood doors, includes self reaming, and tapping screws
- Staked valves
- Meets ANSI A117.1
- ANSI/BHMA A156.4, grade 1
- UL listed and compliant to UL10C and UBC 7-2 (1997)
- Cover is UL approved for use in fire rated assemblies
- 10-year warranty
- Retrofittable to Norton 8000 hole pattern

## Listings and ratings

The Falcon SC81A is UL listed and compliant to UL10C and UBC 7-2 (1997). Additionally, the SC81A is designed to meet the American Disabilities Act (ADA) and ANSI A117.1. The SC81A is rated ANSI/BHMA A156.4, Grade 1.

## SC80A Series hinge (pull side)

To 120°	11 3/4" - 298mm
121° to 180°	8 1/2" - 216mm



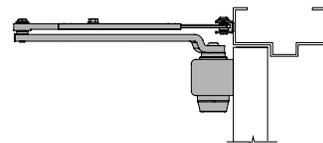
**Butt hinges** should not exceed 5" (127mm) in width.

**Auxiliary stop** is recommended at hold-open point or where a door cannot swing 180°.

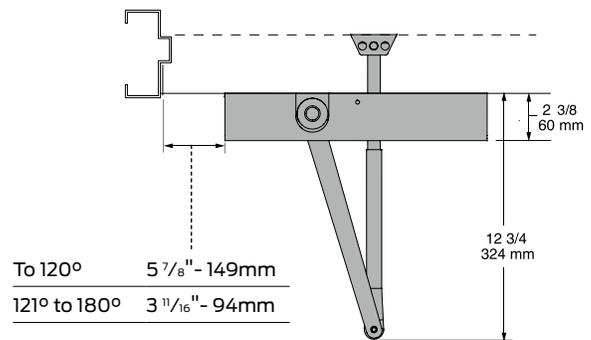
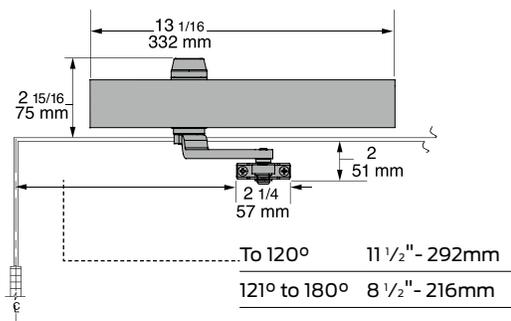
**Reveal** should not exceed 3/4" (19mm) for regular arm or hold-open arm.

**Clearance** of 2 3/8" (60mm) behind door required for 90° installation.

**Delayed action** add suffix "DEL" to selected cylinder (ex. SC80A DEL). Delays closing from maximum opening to approximately 70°, with adjustable delay time.



## SC80A Series top jamb (push side)



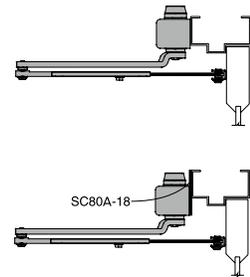
**Butt hinges** should not exceed 5" (127mm) in width.

**Auxiliary stop** is recommended at hold-open point or where a door cannot swing 180°.

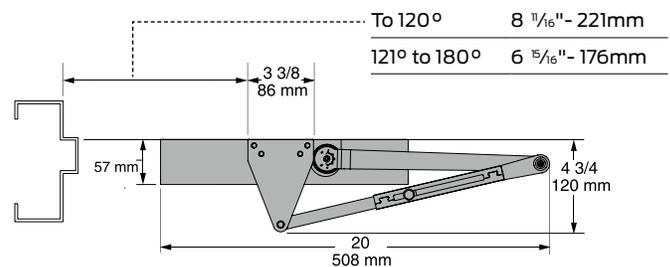
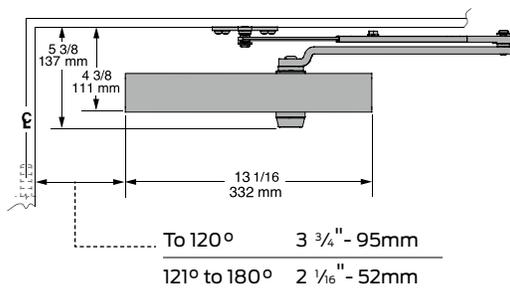
**Reveal** should not exceed 3 1/4" (83mm) for regular arm or hold-open arm.

**Head frame** less than 2 5/16" (59mm) requires plate SC80A-18.

**Delayed action** add suffix "DEL" to selected cylinder (ex. SC80A DEL). Delays closing from maximum opening to approximately 70°, with adjustable delay time.



## SC80A Series parallel (push side)

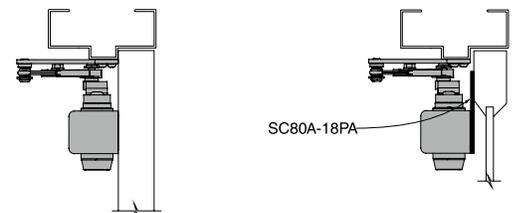


**Butt hinges** should not exceed 5" (127mm) in width.

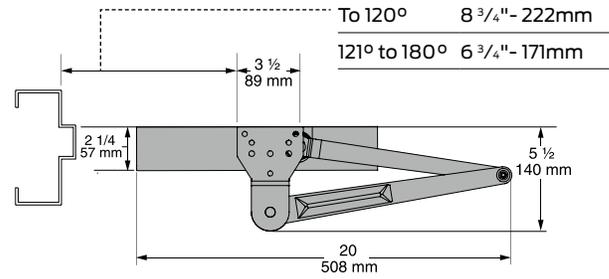
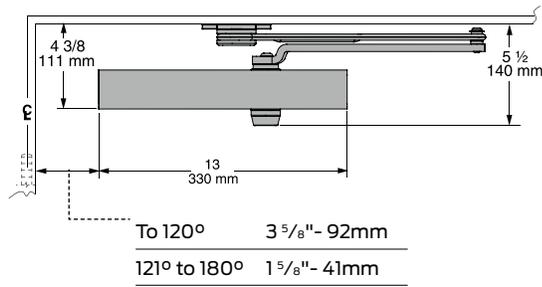
**Auxiliary stop** is recommended at hold-open point or where a door cannot swing 180°.

**Top rail** less than 4 3/8" (111mm) measured from stop requires plate SC80A-18PA.

**Delayed action** add suffix "DEL" to selected cylinder (ex. SC80A DEL). Delays closing from maximum opening to approximately 70°, with adjustable delay time.



## SC80A Series heavy duty (parallel)

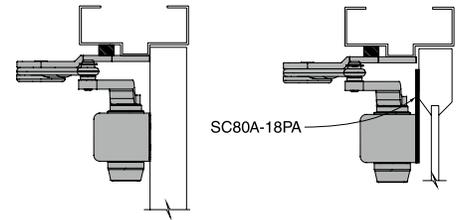


**Butt hinges** should not exceed 5" (127mm) in width.

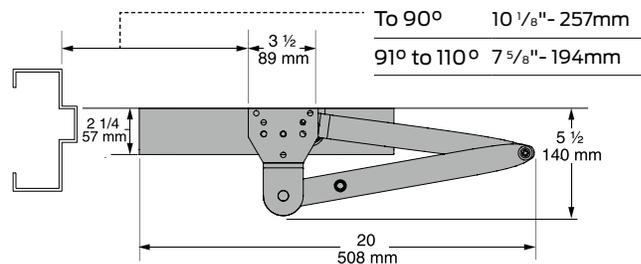
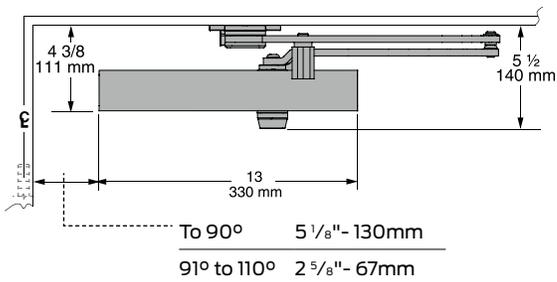
**Auxiliary stop** is recommended at hold-open point, where a door cannot swing 180°, or where Dead stop or Spring-n-stop arm is not used.

**Top rail** less than 4 3/8" (111mm) measured from stop requires plate SC80A-18PA.

**Delayed action** add suffix "DEL" to selected cylinder (ex. SC80A DEL). Delays closing from maximum opening to approximately 70°, with adjustable delay time.



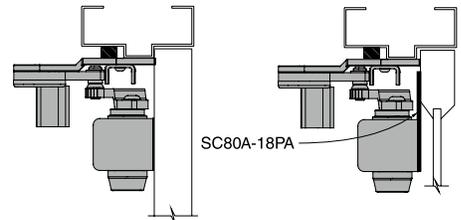
## SC80A Series dead stop HO (parallel)



**Butt hinges** should not exceed 5" (127mm) in width.

**Top rail** less than 4 3/8" (111mm) measured from stop requires plate SC80A-18PA.

**Delayed action** add suffix "DEL" to selected cylinder (ex. SC80A DEL). Delays closing from maximum opening to approximately 70°, with adjustable delay time.

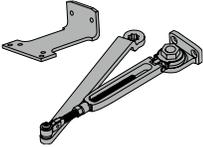


## Arm types

All SC80A Series closers come with slim cover, standard arm and screw pack.



**Regular arm, SC80A-3077PA**  
Non-handed arm with adjustable forearm assembly to accommodate a range of doors and frame reveal conditions. Mounts hinge side, top jamb or parallel arm. PA shoe included to allow installation in a parallel arm configuration.



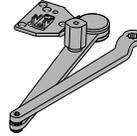
**Hold-open regular arm, SC80A-3049PA**  
Optional, non-handed, hold open arm with adjustable forearm assembly to accommodate a range of doors and frame reveal conditions. Mounts hinge side, top jamb or parallel arm. PA shoe included to allow installation in a parallel arm configuration.



**Heavy duty arm, SC80A-3077HD**  
Optional, non-handed, stamped, heavy duty, parallel arm for use in high-traffic applications.



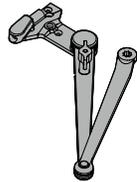
**Dead stop arm, SC80A-3077DS**  
Optional, non-handed, stamped, heavy duty, parallel arm includes a positive mechanical stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions.



**Dead stop hold-open Arm, SC80A-3049DS**  
Optional, non-handed, stamped, heavy duty, hold-open parallel arm includes a positive mechanical stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions. Also includes a manually selective hold-open function.



**Spring-n-stop arm, SC80A-3077SS**  
Optional, non-handed, extra heavy-duty, forged parallel arm includes an integral spring stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions.

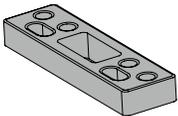


**Spring-n-stop hold-open arm, SC80A-3049SS**  
Optional, non-handed, extra heavy-duty, forged parallel arm includes an integral spring stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions. Also includes a manually selective hold-open function.

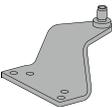
## Installation accessories



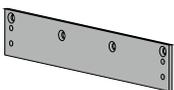
**Soffit shoe support, SC80A-30**  
Provides anchorage for fifth screw used with soffit shoe, where reveal is less than  $3\frac{1}{16}$ " (78mm).



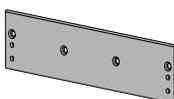
**Blade stop spacer, SC80A-61**  
Required to lower parallel arm shoe to clear  $\frac{1}{2}$ " (13mm) blade stop.



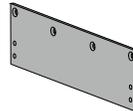
**Auxiliary shoe, SC80A-62A**  
Requires a top rail of 7" (178mm). Optional shoe replaces PA shoe for parallel arm mounting of regular arm with overhead holder/stop.



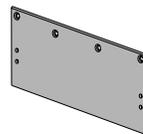
**Plate, SC80A-18**  
Required for top jamb mounting where head frame is less than  $1\frac{3}{4}$ " (44mm) or flush ceiling conditions exists.



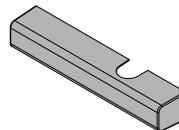
**Plate, SC80A-18FC**  
Required for top jamb mounting where head frame is less than  $1\frac{3}{4}$ " (44mm) or flush ceiling conditions exist. To be used with a full cover SC80A-72FC.



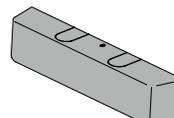
**Plate, SC80A-18PA**  
Required for parallel arm mounting where top rail is less than  $4\frac{3}{8}$ " (111 mm), measured from the stop. Plate requires  $1\frac{7}{8}$ " (48mm) minimum top rail measured from stop.



**Plate, SC80A-18PAFC**  
Required for parallel arm mounting where top rail is less than  $4\frac{3}{8}$ " (111mm), measured from the stop. Plate requires  $1\frac{7}{8}$ " (48mm) minimum top rail measured from stop. To be used with a full cover SC80A-72FC.



**Cover, SC80A-72**  
Standard, non-handed, slim line plastic cover encloses the closer body with a cap on the unused pinion shaft.



**Cover, SC80A-72FC**  
Optional non-handed, full plastic cover encloses the closer body.

# SC60A Series



When you need a dependable closer for a standard-duty application, the Falcon SC60A Series gets the job done. Designed for interior use with an aluminum storefront, the SC60A Series offers ANSI grade 1 durability backed by a ten-year warranty. Most common hole pattern in the industry for versatile use and easy retrofit.

## Standard features

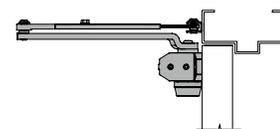
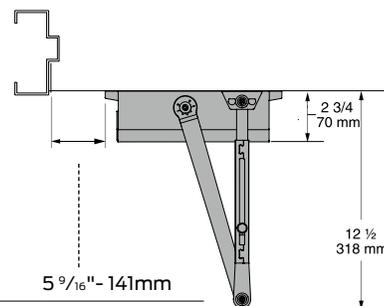
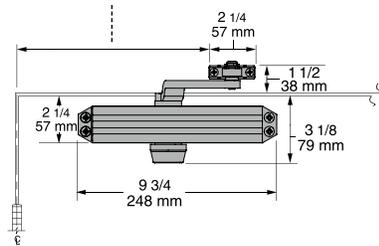
- Single piece cast aluminum body
- Fully adjustable sizes 1-5
- Separate adjustable general speed, latch speed and backcheck
- Closer mounts hinge side, top jamb or parallel arm when either the RW/PA or HW/PA arm is specified
- Non-handed for left or right swinging doors
- Heat-treated pinion and steel piston
- Universal screw pack for aluminum, hollow metal, and wood doors, includes self reaming, and tapping screws
- Staked valves
- Meets ANSI A117.1
- ANSI/BHMA A156.4, grade 1
- UL listed and compliant to UL10C and UBC 7-2 (1997)
- Cover is UL approved for use in fire rated assemblies
- 10-year warranty
- Retrofittable to Norton 1600 hole pattern

## Listings and ratings

The Falcon SC60A is UL listed and compliant to UL10C and UBC 7-2 (1997). Additionally, the SC61A is designed to meet the American Disabilities Act (ADA) and ANSI A117.1. The SC60A Series is rated ANSI/BHMA A156.4, Grade 1.

## SC60A Series hinge (pull side)

To 120°	11 13/16" - 300mm
121° to 180°	8 1/4" - 210mm



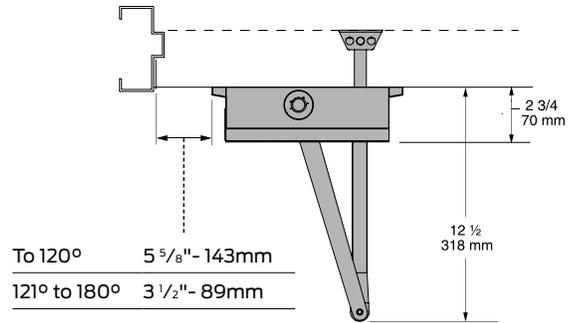
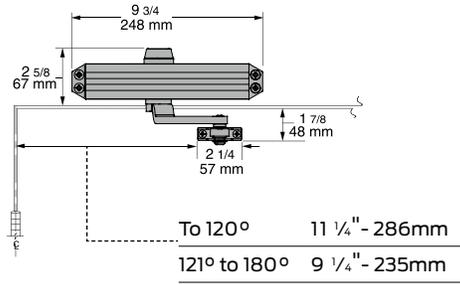
**Butt hinges** should not exceed 5" (127mm) in width.

**Auxiliary stop** is recommended at hold-open point or where a door cannot swing 180°.

**Reveal** should not exceed 3/4" (19mm) for regular arm or hold-open arm.

**Clearance** of 2 3/4" (70mm) behind door required for 90° installation.

## SC60A Series top jamb (push side)

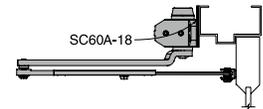
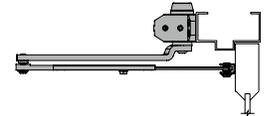


**Butt hinges** should not exceed 5" (127mm) in width.

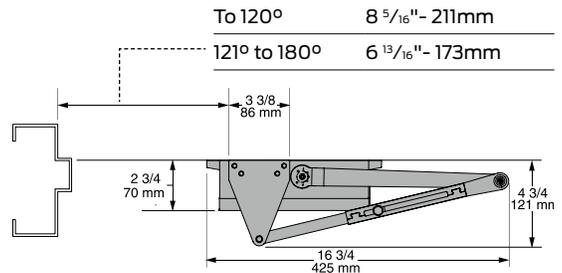
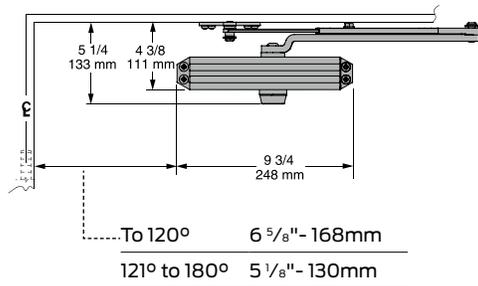
**Auxiliary stop** is recommended at hold-open point or where a door cannot swing 180°.

**Reveal** should not exceed  $3 \frac{1}{4}$ " (83mm) for regular arm or hold-open arm.

**Head frame** less than  $1 \frac{3}{4}$ " (44mm) requires SC60A-18 plate.



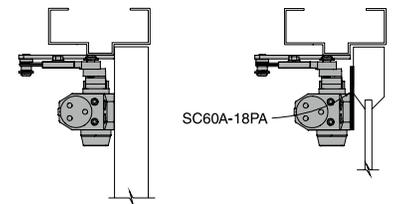
## SC60A Series parallel (push side)



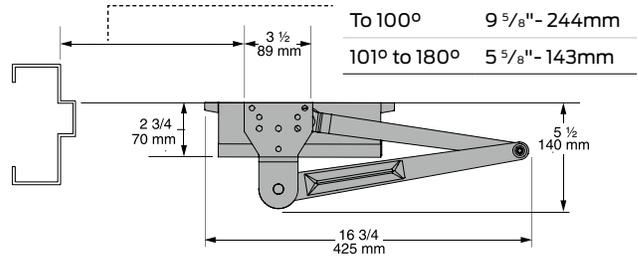
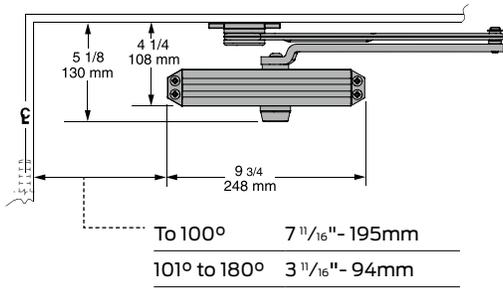
**Butt hinges** should not exceed 5" (127mm) in width.

**Auxiliary stop** is recommended at hold-open point or where a door cannot swing 180°.

**Top rail** less than  $4 \frac{3}{8}$ " (111mm) measured from stop requires plate SC60A-18PA.



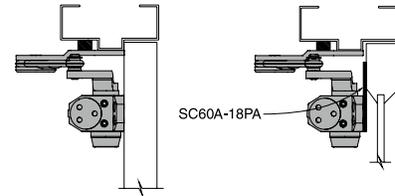
## SC60A Series heavy duty (parallel)



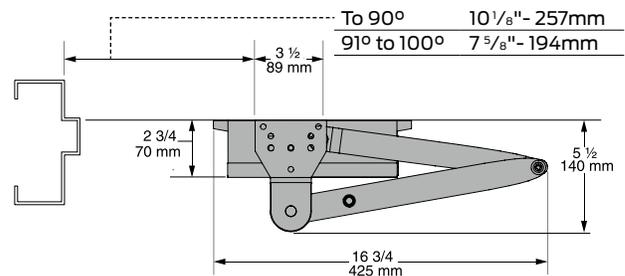
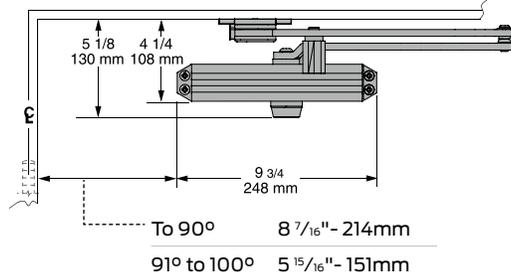
**Butt hinges** should not exceed 5" (127mm) in width.

**Auxiliary stop** is recommended at hold-open point, where a door cannot swing 180°, or where Dead stop or Spring-n-stop arm is not used.

**Top Rail** less than 4 1/4" (108mm) measured from stop requires plate SC60A-18PA.

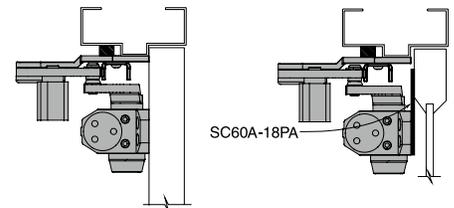


## SC60A Series dead stop HO (parallel)



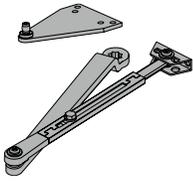
**Butt hinges** should not exceed 5" (127mm) in width.

**Top rail** less than 4 1/4" (108mm) measured from stop requires plate SC60A-18PA.

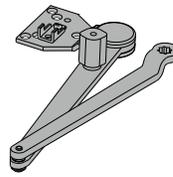


## Arm types

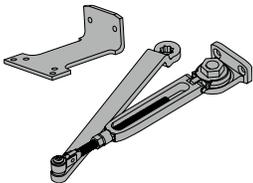
All SC60A Series closers come with standard arm and screw pack.



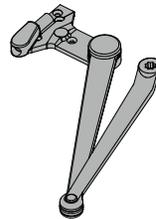
**Regular arm, SC60A-3077PA**  
Non-handed arm with adjustable forearm assembly to accommodate a range of doors and frame reveal conditions. Mounts hinge side, top jamb or parallel arm. PA shoe included to allow installation in a parallel arm configuration.



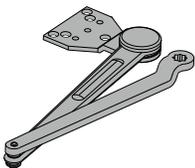
**Dead stop hold-open arm, SC60A-3049DS**  
Optional, non-handed, stamped, heavy duty, hold-open parallel arm includes a positive mechanical stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions. Also includes a manually selective hold-open function.



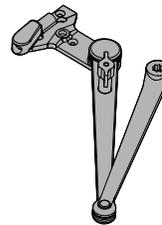
**Hold-open arm, SC60A-3049PA**  
Optional, non-handed, hold open arm with adjustable forearm assembly to accommodate a range of doors and frame reveal conditions. Mounts hinge side, top jamb or parallel arm. PA shoe included to allow installation in a parallel arm configuration.



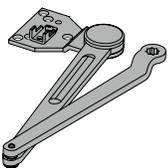
**Spring-n-stop arm, SC60A-3077SS**  
Optional, non-handed, extra heavy-duty, forged parallel arm includes an integral spring stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions.



**Heavy duty regular arm, SC60A-3077HD**  
Optional, non-handed, stamped, heavy duty, parallel arm for use in high-traffic applications.



**Spring-n-stop hold-open arm, SC60A-3049SS**  
Optional, non-handed, extra heavy-duty, forged parallel arm includes an integral spring stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions. Also includes a manually selective hold-open function.

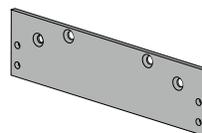


**Dead stop arm, SC60A-3077DS**  
Optional, non-handed, stamped, heavy duty, parallel arm includes a positive mechanical stop and non-adjustable forearm assembly for high volume traffic or potentially abusive installation conditions.

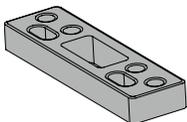
## Installation accessories



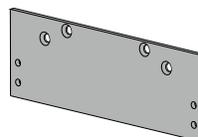
**Soffit shoe support, SC60A-30**  
Provides anchorage for fifth screw used with soffit shoe, where reveal is less than 3 1/16" (78mm).



**Plate, SC60A-18**  
Required for top jamb mounting where head frame is less than 1 3/4" (44mm).



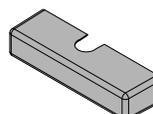
**Blade stop spacer, SC60A-61**  
Required to lower parallel arm shoe to clear 1/2" (13mm) blade stop.



**Plate, SC60A-18PA**  
Required for parallel arm mounting where top rail is less than 4 3/8" (111mm) for PA, 4 1/4" (108mm) for HD and DS, measured from the stop. Plate requires 2 3/8" (60mm) minimum top rail measured from stop.

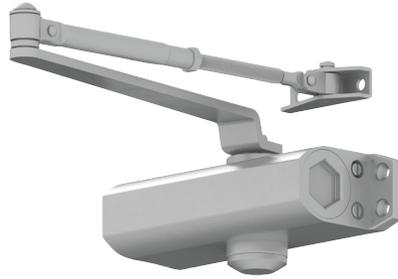


**Auxiliary shoe, SC60A-62A**  
Requires a top rail of 7" (178mm). Optional shoe replaces PA shoe for parallel arm mounting of regular arm with overhead holder/stop.



**Cover, SC60A-72**  
Optional, non-handed, slim line plastic cover. Designed for SC60A series.

# SC90A Series



Designed for light-duty interior applications the Falcon SC90A closer ensures smooth, reliable operation. The SC90A is backed by a 10-year warranty and is preset for easy installation.

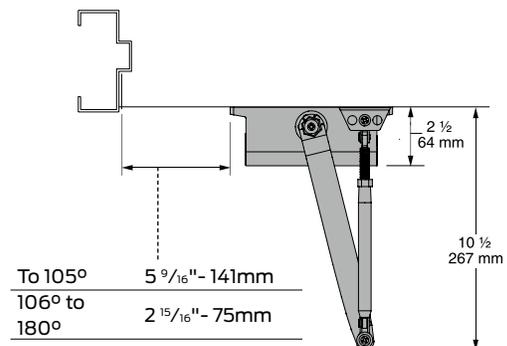
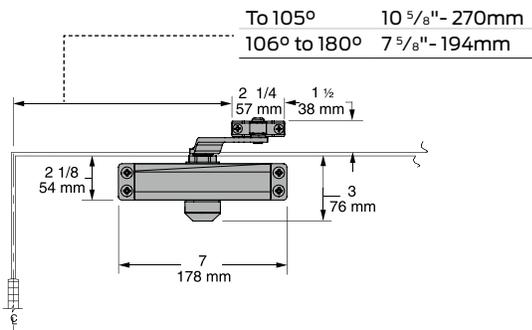
## Standard features

- Single piece cast aluminum body
- Fixed sizes 1, 3 and 4
- Separate adjustable general speed and latch speed
- SC90A closer mounts hinge side, top jamb, or parallel arm when the RW/PA arm is specified
- Non-handed for left or right swinging doors
- Heat-treated pinion and steel piston
- SC93A/94A comes standard with a universal screw pack for aluminum, hollow metal, and wood doors, includes self reaming and tapping screws
- Meets ANSI A117.1
- Listed ANSI/BHMA A156.4, grade 3
- Comes standard with adjustable backcheck
- SC93A/94A is UL listed and compliant to UL10C and UBC 7-2 (1997)
- 10-year warranty
- Offered in aluminum and dark bronze finish

## Listings and ratings

The Falcon SC93A/94A Series is UL approved and compliant with the UL 10C and UBC 7-2 (1997) fire test. Additionally the SC91A closers are designed to meet the American Disabilities Act (ADA) and ANSI A117.1. The SC90A Series is listed ANSI/BHMA A156.4, Grade 3.

## SC91A Hinge (pull side)

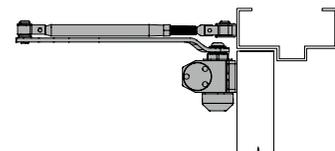


**Butt Hinges** should not exceed 5" (127mm) in width.

**Auxiliary Stop** is recommended at hold-open point or where a door cannot swing 180°.

**Reveal** should not exceed 3/4" (19mm) for regular arm.

**Clearance** of 2 1/2" (64mm) behind door required for 90° installation.



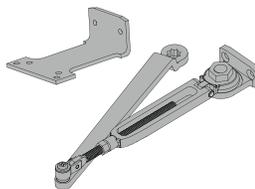


## Arm types and accessories

All SC91A closers come with standard arm. Optional pinion caps are also available for replacement.



**Regular arm, SC91A-3077PA**  
Non-handed arm with adjustable forearm assembly to accommodate a range of doors and frame reveal conditions. Mounts hinge side, top jamb or parallel arm. PA shoe included to allow installation in a parallel arm configuration. Available only on SC91A closers.

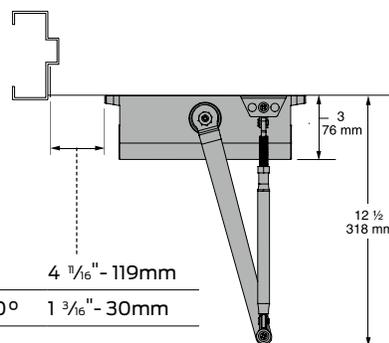
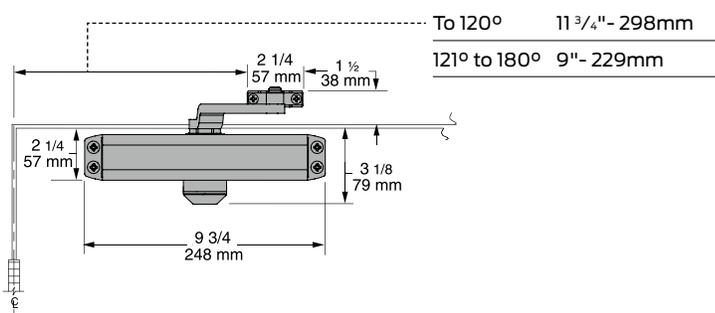


**Hold-open arm, SC91A-3049PA**  
Optional, non-handed, hold open arm with adjustable forearm assembly to accommodate a range of doors and frame reveal conditions. Mounts hinge side, top jamb or parallel arm. PA shoe included to allow installation in a parallel arm configuration. Available only on SC91A closers.



**Pinion cap, SC91A**  
Available for replacement with SC91A.

## SC93A/94A Hinge (pull side)

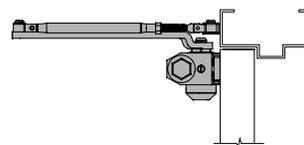


**Butt hinges** should not exceed 5" (127mm) in width.

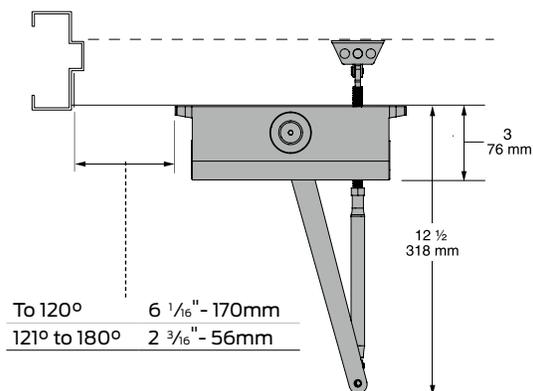
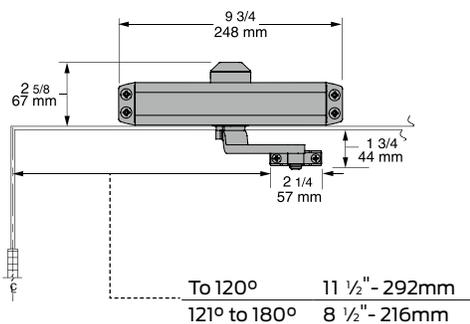
**Auxiliary stop** is recommended at hold-open point or where a door cannot swing 180°.

**Reveal** should not exceed  $\frac{3}{4}$ " (19mm) for regular arm.

**Clearance** of 3" (76mm) behind door required for 90° installation.



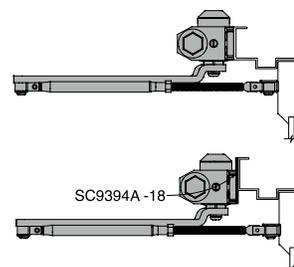
## SC93A/94A Top jamb (push side)



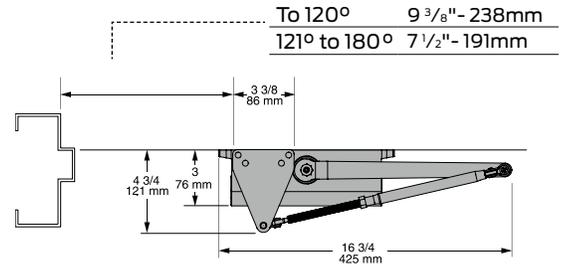
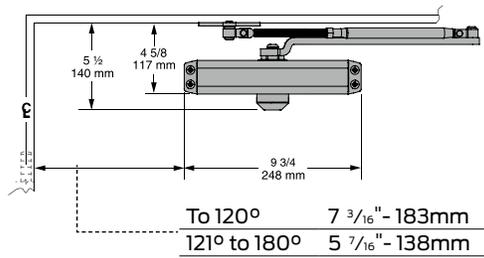
**Butt hinges** should not exceed 5" (127mm) in width.

**Auxiliary stop** is recommended at hold-open point or where a door cannot swing 180°.

**Reveal** should not exceed  $3 \frac{1}{4}$ " (83mm) for regular arm.

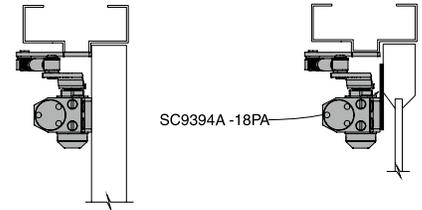


# SC93A/94A Parallel (push side)



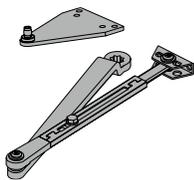
**Butt hinges** should not exceed 5" (127mm) in width.

**Auxiliary stop** is recommended at hold-open point or where a door cannot swing 180°. Backcheck closer with the backcheck option requires 105° mounting.

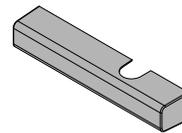


## Arm type and accessories

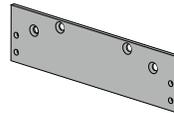
All SC93A/94A closers come with standard arm and screw pack. Optional accessories available for order.



**Regular arm, SC90A-3077PA**  
Non-handed arm with adjustable forearm assembly to accommodate a range of doors and frame reveal conditions. Mounts hinge side, top jamb or parallel arm. PA shoe included to allow installation in a parallel arm configuration. Available with SC93A/94A only.



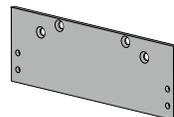
**Slim cover, SC90A-72**  
Optional non-handed, slim plastic cover. Available only with SC93A.



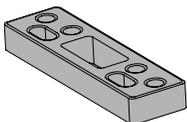
**Plate, SC90A-18**  
Required for top jamb mounting where head frame is less than  $1\frac{3}{4}$ " (44mm) or flush ceiling conditions exists. Available only with SC93A/94A.



**Soffit shoe support, SC90A-30**  
Provides anchorage for fifth screw used with soffit shoe, where reveal is less than  $3\frac{1}{16}$ " (78mm).



**Plate, SC90A-18PA**  
Required for parallel arm mounting where top rail is less than  $4\frac{5}{8}$ " (117 mm), measured from the stop. Plate requires  $2\frac{1}{8}$ " (54mm) minimum top rail measured from stop. Available only with SC93A/94A.



**Blade stop spacer, SC90A-61**  
Required to lower parallel arm shoe to clear  $\frac{1}{2}$ " (13mm) blade stop.

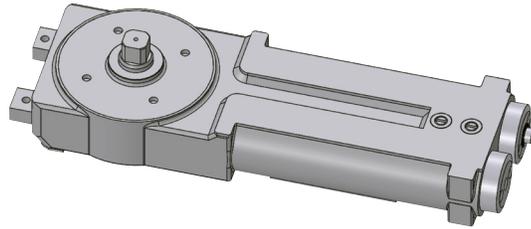


**Pinion cap, SC90A**  
Available for replacement with SC93A/94A.



**Auxiliary shoe, SC90A-62A**  
Requires a top rail of 7" (178mm). Optional shoe replaces PA shoe for parallel arm mounting of regular arm with overhead holder/stop.

# OHC100A Series



Overhead concealed closers control door opening and closing, while providing an aesthetically pleasing design option for both interior and exterior use. The Falcon OHC100A Series is used with aluminum doors and frames, providing years of maintenance-free performance.

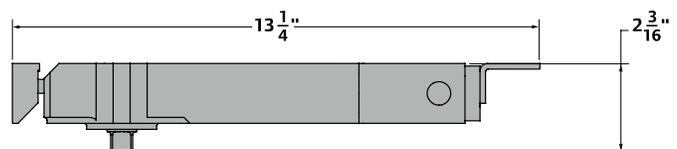
## Standard features

- Economical option for overhead concealed closer
- Retrofittable, matches Jackson hole pattern
- Cast iron construction ensures lasting durability
- Fits inside standard aluminum frame header for improved aesthetics and increased security
- 90° and 105° standard opening with optional hold-open
- Multiple size options available:
  - OHC 101 adjustable sizes 1-3
  - OHC 100 adjustable sizes 3-5
- Meets UL228
- 5-year warranty

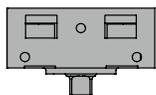
**Top view**



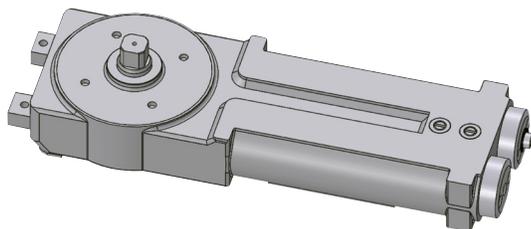
**Side view**



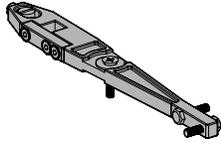
**End view**



**Bottom view**

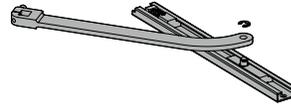


## Installation accessories



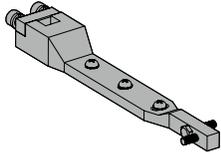
**"S" arm, OHC100-SL,  
OHC100A-SL**

Non-handed arm, side load,  
center hung, steel forge.



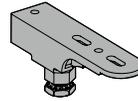
**"VO" arm, OHC100A-VO,  
OHC100A-VO**

Non-handed arm, offset arm  
w/ slide channel, steel forge.



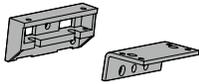
**"A" arm, OHC100A-EL,  
OHC100A-EL**

Non-handed arm, end load, center  
hung, steel forge.



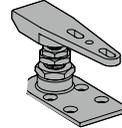
**"GE" pivots, OHC100-GE,  
OHC100A-GE**

Non-handed, adjustable height,  
center hung, used with side load  
arm.



**"AFK" mounting brackets, OHC100A-AFK**

Provides anchorage for adjustable size  
cylinder to the door frame.



**"DP" pivots, OHC100-DP,  
OHC100A-DP**

Non-handed, adjustable height,  
center hung, used with end load  
arm.

# 8200 Series

## The automatic operator that changes everything

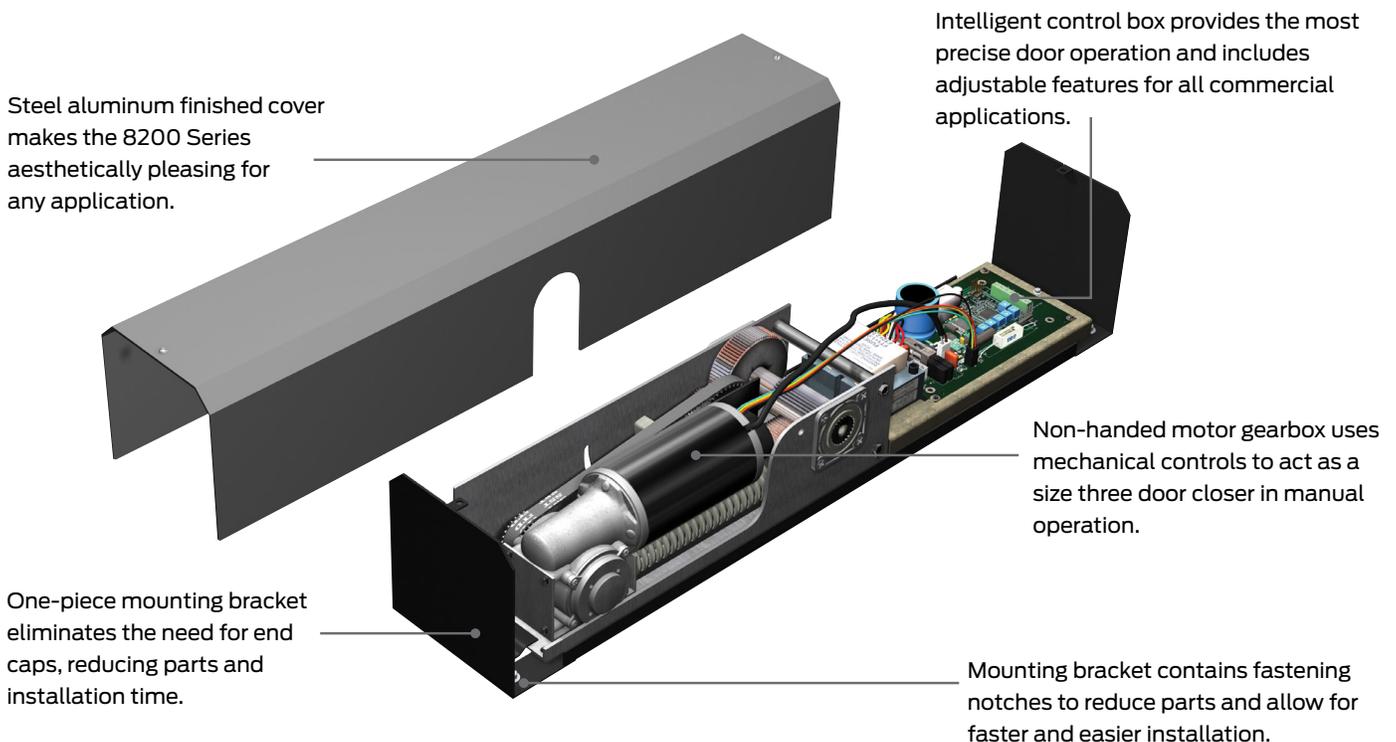
### Beauty, value and versatility are now automatic

When you need a smart solution to improve accessibility the Falcon 8200 Series fits perfectly. Designed for applications like assisted living and ambulatory care, where ease of use is critical, the Falcon automatic operator provides dependable performance at an affordable price point. Everything you need is right in the box, making installation quick and simple. All necessary features are built right in, so configuring the closer is simple and you can easily make more openings more accessible than ever.

### Designed to fit perfectly

The small footprint and elegant design of the Falcon 8200 Series make it a perfect solution for a range of applications.

- Assisted living • Hospitality • Retail • Small office • Restaurants • Ambulatory care





The Falcon 8200 Series automatic operator ensures smooth, convenient door opening for areas requiring easy accessibility and ADA compliance. This versatile device can also be easily integrated into electrified openings with our wireless accessory offering. Choose the 8231 for pull side or the 8242 for push side installation.

 **SmartLatch** – Senses and overcomes external pressure conditions with a graduated energy assist for secure latching.

 **Push ‘n’ Go** – Selectable feature allows door to open automatically as soon as it feels pressure.

 **Open position learning** – Automatically sets the opening position and detects obstructions to eliminate wall and door damage.

 **Pre-load strike assist** – Removes load on strike lip with a one second delay allowing the door to release and automatically open.

 **LED light illumination** – Light illumination on control box signals accurate installation and helps with connection diagnostics.

 **On board power supply (12 VAC)** – Powers actuators and receivers without the need to install an external power supply.

### Specifications

Header length	26"
Mounting	Surface mount
Handing	Non-handed
Cycle tested	1 million gear box
Door weight	200 pounds

Consult technical services for use on doors over 200 lbs.

Adjustable features:

- Hold-open time delay
- Backcheck speed
- Backcheck/latch position
- Opening/closing speed

## Actuators and accessories



8310-852T shown

### 6" Round – text with logo

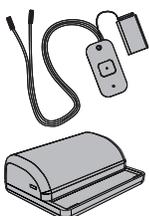
8310-852T	Push plate, wall mount
8310-869F	Mounting box, flush
8310-869S	Mounting box, surface
8310-802	Weather ring



8310-818T shown

### 1 1/2" x 4 3/4" Jamb – text with logo

8310-818T	Push plate, jamb mount
8310-819F	Mounting box, flush
8310-819S	Mounting box, surface

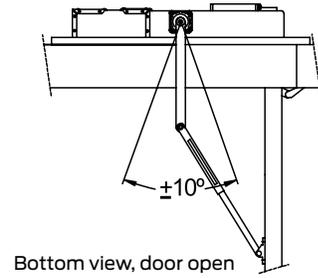
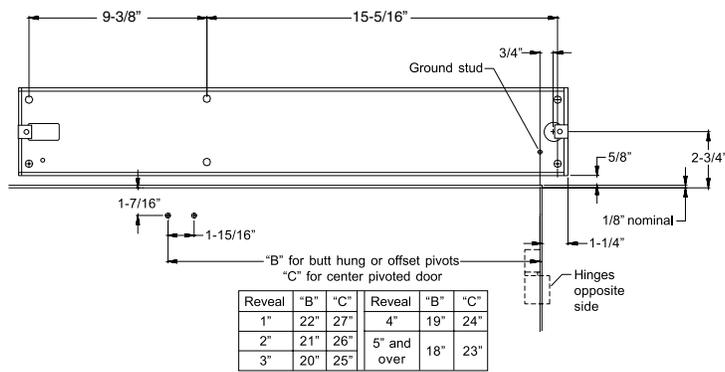


8310-844J and 8310-865 shown

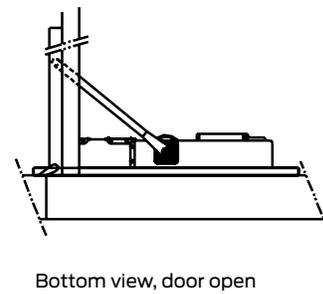
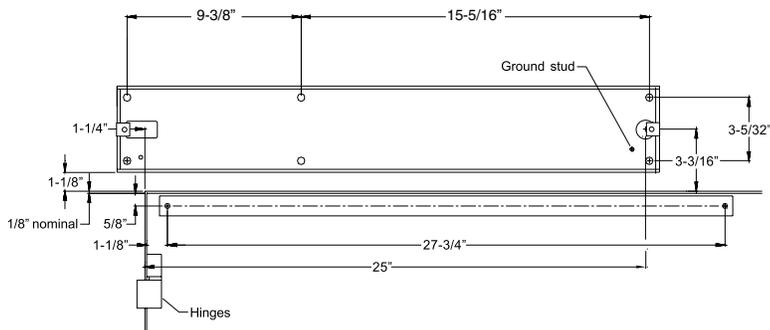
### Wireless transmitters & receiver

8310-844	Transmitter, wall mount (to be used with 6" round wall mounted actuator)
8310-844J	Transmitter, Jamb mount (to be used with 1 1/2" x 4 3/4" jamb actuator)
8310-861	Transmitter, Handheld (single button wireless handheld transmitter)
8310-865	Receiver (wireless receiver with sequencing function)

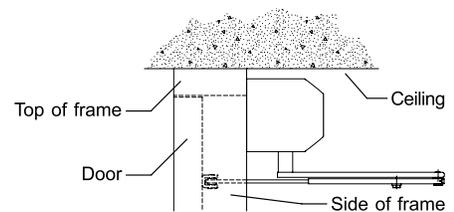
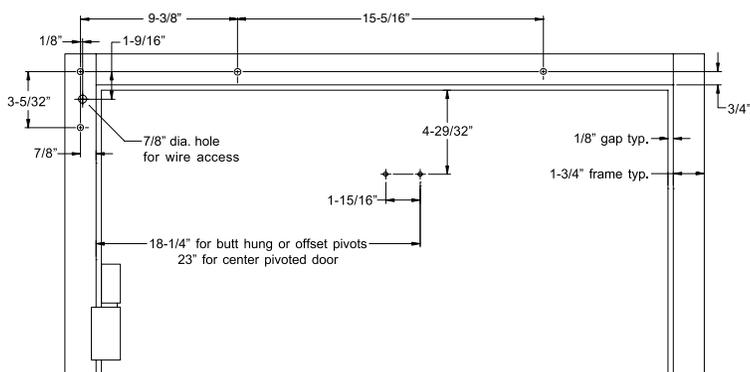
## 26" Push system



## 26" Pull system



## 26" Drop system (push system only)



# How to order

## SC70A Series

		Cylinder	Cover	Arm	Finish	Accessories
<b>STD</b>	SC71A Standard					
<b>DEL**</b>	SC71A Delay					
<b>Full cover</b>	SC70A-72					
<b>RW/PA</b>	Regular with parallel arm shoe					
<b>HW/PA</b>	Hold open with parallel arm shoe					
<b>HD</b>	Heavy duty arm					
<b>DS</b>	Dead stop arm					
<b>DS/HO</b>	Dead stop hold open arm					
<b>SS</b>	Spring stop arm					
<b>SS/HO</b>	Spring stop hold open arm					
<b>FA</b>	Forged arm					
<b>FA/HO</b>	Forged arm with hold open					
<b>Matte black**</b>	622					
<b>Aluminum</b>	689					
<b>Dark bronze</b>	695					
<b>Brass*</b>	696					
<b>Soffit shoe support</b>	SC70A-30					
<b>Blade stop spacer</b>	SC70A-61					
<b>Auxiliary shoe</b>	SC70A-62A					
<b>Top jamb plate</b>	SC70A-18					
<b>PA Plate</b>	SC70A-18PA					
<b>Full cover</b>	SC70A-72					

\*Contact customer service at 1-877-671-7011 for lead time information.

\*\*Matte Black (622) is not available for Delayed action cylinders.

Note: SC71A models are adjustable sizes 1-6

## SC80A Series

		Cylinder	Cover	Arm	Finish	Accessories
<b>STD</b>	SC81A Standard					
<b>DEL**</b>	SC81A Delay					
<b>Slim cover</b>	SC80A-72					
<b>Full cover</b>	SC80A-72FC (optional, please specify)					
<b>RW/PA</b>	Regular with parallel arm shoe					
<b>HW/PA</b>	Hold open with parallel arm shoe					
<b>HD</b>	Heavy duty arm					
<b>DS</b>	Dead stop arm					
<b>DS/HO</b>	Dead stop hold open arm					
<b>SS</b>	Spring stop arm					
<b>SS/HO</b>	Spring stop hold open arm					
<b>Matte black**</b>	622					
<b>Aluminum</b>	689					
<b>Dark bronze</b>	695					
<b>Brass*</b>	696					
<b>Soffit shoe support</b>	SC80A-30					
<b>Blade stop spacer</b>	SC80A-61					
<b>Auxiliary shoe</b>	SC80A-62A					
<b>Top jamb plate</b>	SC80A-18					
<b>Top jamb plate - full cover</b>	SC80A-18FC					
<b>PA Plate</b>	SC80A-18PA					
<b>PA Plate - full cover</b>	SC80A-18PAFC					
<b>Slim cover</b>	SC80A-72					
<b>Full cover</b>	SC80A-72FC					

\* Contact customer service at 1-877-671-7011 for lead time information.

\*\* Matte Black (622) is not available for Delayed action cylinders.

Note: SC81A models have adjustable sizes 1-6

## SC60A Series

		Cylinder	Cover	Arm	Finish	Accessories
<b>STD**</b>	SC61A Standard					
<b>Slim cover</b>	SC60A-72 (optional, available with SC61A only, please specify)					
<b>RW/PA</b>	Regular with parallel arm shoe					
<b>HW/PA</b>	Hold open with parallel arm shoe					
<b>HD</b>	Heavy duty arm					
<b>DS</b>	Dead stop arm					
<b>DS/HO</b>	Dead stop hold open arm					
<b>SS</b>	Spring stop arm					
<b>SS/HO</b>	Spring stop hold open arm					
<b>Matte black</b>	622					
<b>Aluminum</b>	689					
<b>Dark bronze</b>	695					
<b>Brass</b>	696					
<b>Soffit shoe support</b>	SC60A-30					
<b>Blade stop spacer</b>	SC60A-61					
<b>Auxiliary shoe</b>	SC60A-62A					
<b>Top jamb plate</b>	SC60A-18					
<b>PA Plate</b>	SC60A-18PA					
<b>Slim cover</b>	SC60A-72					

Note: SC60A Series comes standard with less cover and all models have adjustable sizes 1-5.

## SC90A Series

		Cylinder	Size	Cover	Arm	Finish	Accessories
<b>STD*</b>	Standard						
<b>1</b>	SC91A						
<b>3</b>	SC93A						
<b>4</b>	SC94A						
<b>Slim cover</b>	SC90A-72 (only available on SC93A/94A)						
<b>RW/PA</b>	Regular with parallel arm shoe						
<b>HW/PA</b>	Hold open with parallel arm shoe (only available on SC91A)						
<b>Soffit shoe support</b>	SC90A-30						
<b>Blade stop spacer</b>	SC90A-61						
<b>Auxiliary shoe</b>	SC90A-62A						
<b>Aluminum</b>	689						
<b>Dark bronze</b>	695						
<b>Plate</b>	SC90A-18 (available with SC93A/94A only)						
<b>Plate PA</b>	SC90A-18PA (available with SC93A/94A only)						
<b>Slim cover</b>	SC90A-72 (available with SC93A/94A only)						

\*STD comes with less cover and adjustable backcheck.

## OHC100 Series

		Cylinder	Size	Arm finish	Arm	Accessories
<b>STD 90°</b>	Standard					
<b>STD 105°</b>						
<b>HO 90°</b>	Hold Open					
<b>HO 105°</b>						
<b>1-3</b>	OHC101	Adjustable				
<b>3-5</b>	OHC100	Adjustable				
<b>Dark bronze</b>	695 (Only OCH100 cylinder finish; available on VO arms)					
<b>Aluminum</b>	689 (Only finish for OHC100 arms <b>except</b> VO arms)					
<b>S</b>	Side load arm					
<b>A</b>	End load arm					
<b>VO</b>	Offset arm and track					
<b>AFK bracket</b>						
<b>GE pivot*</b>						
<b>DP pivot*</b>						

\*Not available with VO arm type.

## 8200 Series

		Cylinder	Size	Cover	Finish	Arm	Accessories
<b>STD</b>	Standard						
<b>3</b>							
<b>Full cover</b>	26"						
<b>Aluminum</b>	689						
<b>Push</b>	8242						
<b>Pull</b>	8231						
<b>Order separate</b>	8310-XXX						

## Cylinder options

**Standard cylinder (STD)** – Standard cylinder provides a main speed function to control the motion of the door from maximum opening angle until the door is a few inches from the latch where latch function controls the final closing motion. The opening swing is controlled by the hydraulic backcheck function from about 70° to maximum opening angle.

**Delayed action cylinder (DEL)** – Special cylinder provides a separate adjustable delayed closing motion from maximum opening angle to approximately 70°. Then the main speed function controls the door motion until the door is a few inches from the latch where latch function controls the final closing motion. During the opening swing the door is controlled by the hydraulic backcheck function from about 70° to maximum opening angle.

## Competitive cross reference

### Surface closer cross reference

Falcon	SC60A	SC70A	SC80A	SC90A
Norton	1600	7500	8500	1700
Hager	5300	5100	5200	5400
dormakaba	QDC300	QDC100	QDC200	
Accentra	51	4400	3000	1100
Sargent	1131	1431	1331	
Corbin		DC8000	DC3000	
Best	SL6000	HD8000	HD7000	

### Concealed closer cross reference

Falcon	OHC100 Series
dormakaba	RTS88
Global	TC7000
International	Series 200, Series 300, Series 500
Jackson	20-330
Kawneer	Husky II
Sentinel	30 Series

# Sample specifications

## Large cylinder closer

### 2.01 Closers and door control devices

- A. Where manual closers are indicated for doors required to be accessible to the physically challenged, provide adjustable units complying with ANSI A117.1 provisions for door opening force and delayed action closing.
- B. Shall conform to ANSI A156.4, grade 1, NFPA 80, NFPA 101 and UL10C.
- C. Closers shall be aluminum construction with steel lever arms, independent adjusting valves for closing, latching and back check. Hydraulic regulation controlled by tamper-proof, non-critical screw valves. All closer adjustments shall be shielded by plastic cover after installation. Pressure relief valve, PRV, doors closers will not be permitted.
- D. Full rack-and-pinion type closer, single-piece forged piston, chrome silicon steel spring, non-critical screw valves; backcheck, main speed and latch.
- E. Closers to be non-sized, field adjustable from size 1 to 6.
- F. Furnish all large cylinder non-sized closers with minimum 1 ½" diameter piston.
- G. Install closers to allow maximum degree of opening, position backcheck to activate well in advance of the stop position to cushion the swing and prevent door and frame damage. Do not use door closer to stop door travel. Unless specified, install closers with thru-bolt mounting method on metal and wood doors. Do not use thru bolt if there has been special blocking specified in the wood door specification. Coordinate with the wood door specification.
- H. Available manufacturers: Subject to compliance with requirements. See competitive cross reference above.





## About Allegion

At Allegion (NYSE: ALLE), we design and manufacture innovative security and access solutions that help keep people safe where they live, learn, work and connect. We're pioneering safety with our strong legacy of brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Our comprehensive portfolio of hardware, software and electronic solutions is sold around the world and spans residential and commercial locks, door closer and exit devices, steel doors and frames, access control and workforce productivity systems.

For more, visit [www.allegion.com](http://www.allegion.com)

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN

**FALCON**®

# K Series

Grade 1 cylindrical lever locks



# Falcon K Series

4	Overview
5	Features and specifications
6	Designs and finishes
7	Functions
8	Cylinders
9	Competitive keyways
10	Options and accessories
11	Competitive cross-reference
11	How to order
11	Warranty

The Falcon K Series will be available through ProExpress™ in August 2015, and through standard orders in fourth quarter 2015. Please reference the ProExpress™ and Falcon price books for product availability.

For more information about Falcon visit  
[www.falconlock.com](http://www.falconlock.com)

Product related questions?  
Contact **877.671.7011**



Falcon offers solid products at a solid price to fit your every need. Offering a full portfolio of locks, exits and closers, Falcon can provide a complete door solution – all under one brand name.



# Falcon

## Cylindrical lock portfolio

A cylindrical lock, also commonly referred to as a bored lock, is a lock in which a large hole is bored into the face of a door and a smaller cross-bore hole is bored into the door edge.

When purchasing a lock, it is important to consider all of the variables. Outside of the standard considerations such as door type, door thickness, frame size, and backset, it is also important to consider the lock's application.

High traffic, high abuse door openings demand a Grade 1 lock in order to keep doors secure. The Falcon K Series was designed for applications such as interior office doors or busy public restrooms. When quality and reliability are needed but cost is a concern, the certified ANSI/BHMA Grade 1 Falcon K Series can do the job.

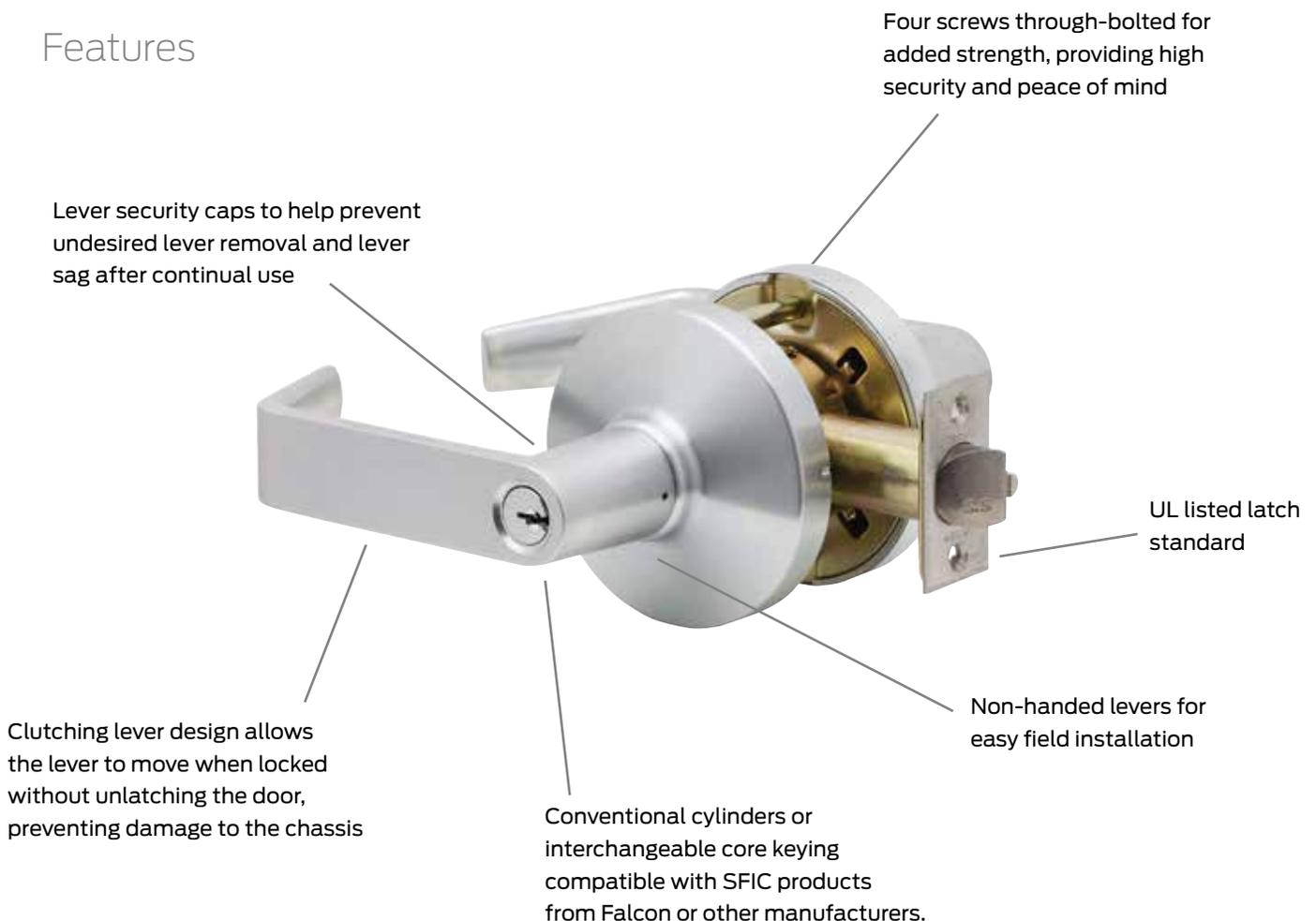


# K Series

Grade 1 cylindrical lever locks

High traffic, high abuse door openings demand a Grade 1 quality lock to keep doors secure. When quality and reliability are needed but cost is a concern, the certified ANSI/BHMA Grade 1 Falcon K Series can do the job. The Falcon K Series gets back to basics by offering the most common functions, lever styles and finishes at an affordable price. The K Series features conventional cylinders and small format interchangeable cores that are compatible with SFIC products from other manufacturers. Our conventional cylinders are available in all Falcon conventional key sections, as well as Schlage C keyway, which is now masterkeyed across the complete Falcon product line.

## Features



## Features

**ANSI/BHMA:** Meets ANSI/BHMA A156.2, Series 4000, Grade 1.

**UL:** UL10C 3 hour A label.

**Door thickness:** Adjustable 1 <sup>3</sup>/<sub>8</sub>" to 2 <sup>1</sup>/<sub>4</sub>". Comes set for a 1 <sup>3</sup>/<sub>4</sub>" thick door standard.

**Backset:** 2 <sup>3</sup>/<sub>4</sub>" standard. 2 <sup>3</sup>/<sub>8</sub>" optional.

**Mechanism:** Parts constructed of brass or cold formed steel, zinc plated and dichromated for rust resistance. Springs are stainless steel.

**Attachment:** Lock chassis secured to door by threaded mounting screws. Completely preassembled outer trim and inner spindle assembly are through-bolted both through and over chassis using four (4) screws to provide strength and resistance to loosening. Adding rose and lever to inner spindle assembly completes installation.

**Handing:** Locks are non-handed.

**Cylinders:** Drilled with 6-pin chambers, pinned in 5. Pinning in 6 chambers available when specified, at no cost. Cylinder assemblies removable to rekey. Also available with 6 or 7-pin small format interchangeable core (SFIC) cylinders. Cylinder housings and plugs machined from solid brass. Springs are stainless steel. Two nickel silver keys furnished standard.

**Keywords:** "G" keyway standard on conventional cylinders. "A" keyway standard on I/C core cylinders. Also available with some optional keyways.

**Trim:** Roses are heavy wrought brass or bronze, installed over pressure cast rose inserts which are through-bolted through door. Levers are pressure cast (solid levers—no inserts) material finished to match mating parts.

**Latches:** 2 <sup>1</sup>/<sub>4</sub>" x 1 <sup>1</sup>/<sub>8</sub>" square corner with 2 <sup>3</sup>/<sub>4</sub>" backset comes standard; 2 <sup>3</sup>/<sub>8</sub>" backset option available if specified. Radius corners for both 2 <sup>3</sup>/<sub>8</sub>" and 2 <sup>3</sup>/<sub>4</sub>" backsets available if specified. All latches are UL listed and conform to both beveled and non-beveled doors.

**Strikes:** 4 <sup>7</sup>/<sub>8</sub>" x 1 <sup>1</sup>/<sub>4</sub>" ANSI strike with curved lip to meet ANSI A115.2 door frame preparation standard.

**Screws:** Furnished with combination screws for use in wood or metal doors and frames.

## Specifications

Key-in-lever cylindrical locksets shall be Falcon lock K Series or equal and meet the following requirements:

- All locks shall meet the new ANSI/BHMA A156.2, Series 4000, Grade 1 for key-in-lever locksets.
- Locksets shall be UL Listed (3 hour A Label).
- Locksets shall be provided standard with a clutching lever design. When outside lever is locked, it is not rigid but will move freely without operating the latch bolt.
- Lever trim shall have individual torsion springs behind rose for lever return and to prevent lever sag. Trim shall be through bolted with four (4) screws to provide strength and resistance to loosening. Inner and outer trim shall "bottom out" to prevent door collapse. Roses shall be minimum of 3 <sup>1</sup>/<sub>2</sub>" diameter.
- All lever designs shall be solid and meet the federal ADA and state disability requirements. Inside levers shall be attached by allen-head set and lever catch to prevent tampering or vandalism.
- Locksets shall adjust to fit door thickness from 1 <sup>3</sup>/<sub>8</sub>" to 2 <sup>1</sup>/<sub>4</sub>".
- All locksets shall be non-handed and not require field disassembly for re-handing.
- Preparation for door must be non-handed.
- Cylinders to be secured by a dual retainer.

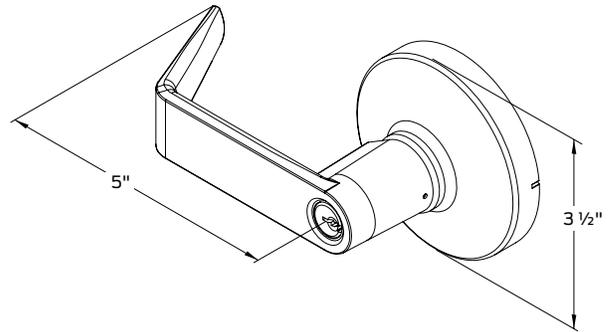
Acceptable manufacturer: Falcon Lock

# Designs and finishes

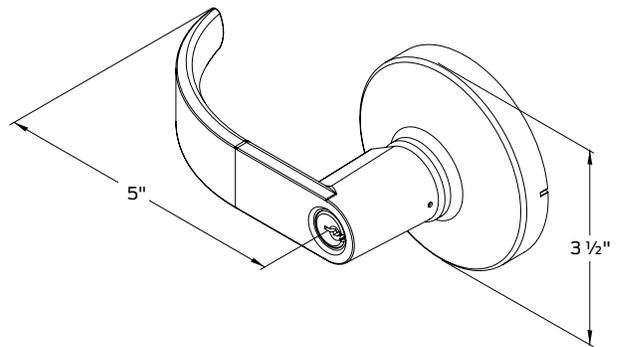
## Lever styles



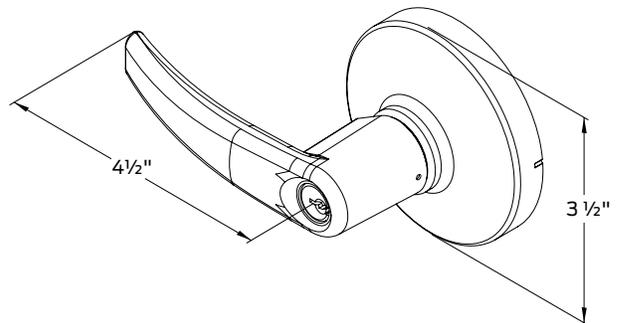
**Dane**



**Quantum**



**Avalon**



## Finishes



613  
Oil rubbed  
bronze

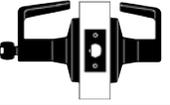


626  
Satin chrome

# Functions

The Falcon K Series offers the industry's most common cylindrical lock functions to cover all of your basic door requirements. Consult page 11 for ordering information and assistance.

 Indicates interchangeable core available.

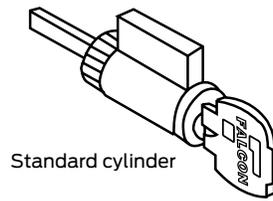
Catalog number	Function	Name	Description	ANSI no. & grade
K101		Passage/closet latchset	Latch bolt by levers at all times.	F75-1
K301		Privacy lock	Latch bolt by levers. Outside lever locked by push button in inside lever. Rotating inside lever or closing door releases push button. Emergency release in outside lever unlocks door.	F76-1
K501	 	Entry lock	Push button locking. Button on inside locks outside lever until unlocked by key or by rotating inside lever. Inside lever always free. Deadlocking latch bolt.	F82-1
K511	 	Entry/office lock	Turn/push button locking. Pushing and turning button locks outside lever requiring use of key until button is manually unlocked. Push button locking. Pushing button locks outside lever until unlocked by key or by rotating inside lever. Inside lever always free. Deadlocking latch bolt.	F109-1
K561	 	Classroom lock	Deadlocking latch bolt by levers. Outside lever is locked by key in outside lever. Inside lever is always free.	F84-1
K571	 	Corridor lock	Deadlocking latch bolt by levers except when locked by push button in inside lever. Key in outside lever locks or unlocks outside lever and releases button. Closing door releases push button. Inside lever always free.	F90-1
K581	 	Storeroom lock	Deadlocking latch bolt by lever inside or key outside. Outside lever is inoperable. Inside lever always free.	F86-1
K12		Dummy trim	Single trim-surface mounted rigid lever.	

# Cylinders

## Standard cylinders - 6-pin

Catalog number	Description
Q330-396	Falcon cylinder, G keyway, 6 pin
Q330-397	Falcon cylinder, G keyway, 6 pin to 5 pin
Q630-310	Falcon cylinder, G keyway, 6 pin, K571
Q630-311	Falcon cylinder, G keyway, 6 pin to 5 pin, K571
Q330-391	Schlage cylinder, C keyway, 6 pin
Q630-306	Schlage cylinder, C keyway, 6 pin, K571

Note: Specify finish: 606 or 626



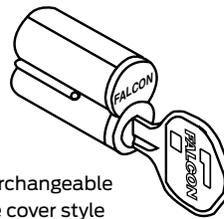
Standard cylinder

## Small format interchangeable core

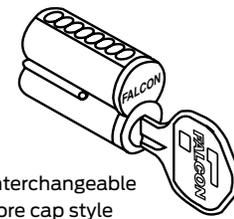
Catalog number	Description
C606 (6-pin), C607 (7-pin)	For use in all I/C keyed locks (cover style)
CB806 (6-pin), CB807 (7-pin)	For use in all I/C keyed locks (cap style)

Note: Specify finish: 606 or 626

Specify keyway: A (standard) or other keyway



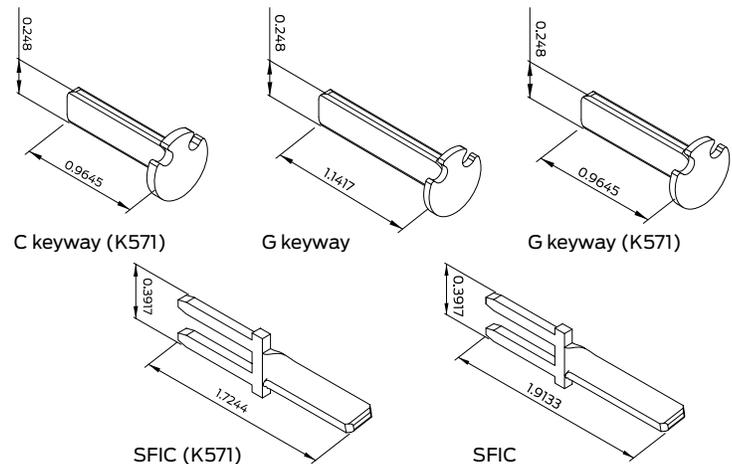
Interchangeable core cover style



Interchangeable core cap style

## Tailpieces

Catalog number	Description
Q630-289	SFIC tailpiece (K501, K511, K561, & K581)
Q330-392	SFIC tailpiece (K571)
Q330-393	Tailpiece, Falcon G-K501, K511, K561, K581
Q330-394	Tailpiece, Falcon G-K571
Q630-312	Tailpiece, Schlage C-K501, K511, K561, K581
Q630-288	Tailpiece, Schlage C-K571



# Competitor keyways

## Standard cylinders with other keyways - 6-pin

Catalog number	Description
Q330-152	Schlage C
Q330-166	Corbin 60 (0 bit or KD only)
Q330-210	Russwin D1 (0 bit or KD only)
Q330-158	Cor/Russ L4 (0 bit or KD only)
Q330-160	Sargent LA (0 bit or KD only)
Q330-156	Yale 8 (0 bit or KD only)

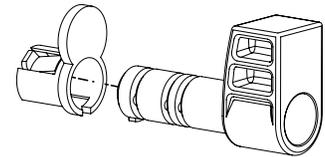
Note: Construction keying available. Reference page 9 for more information.

# Construction keying

Falcon offers two different construction key systems depending on the size of and application within the project. Both systems permit the installation and use of regular door locks during construction, yet completely preserve the security of the keying system for the ultimate building owner. The Master, Grand Master and change keys are never with the locks during the construction phase of a building. Only the “construction” keys are sent to the job site. Where the job permits, we will utilize the “Lost pin system” as our standard system for construction keying. Larger or more complicated jobs may require the use of our “Blockokey® System” for construction keying.

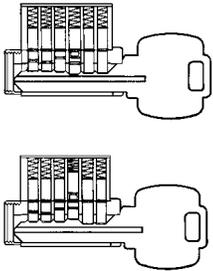
## “Disposable construction” interchangeable cores

This newly designed disposable construction core (1408) is an inexpensive alternative to interior keyed construction cores. This core should be used on interior door applications or where security on a site is not a concern. No keys need to be issued. The disposable core is inserted in the lever or knob and is operated by a thumb turn, which retracts the latch bolt. Please use either brass or permanent construction cores on exterior doors or secured areas.



## Locks with “Lost pin system”

Our “lost” pin construction key system consists of one construction pin and a shallow hole in the side of the plug.

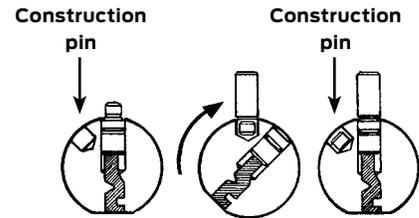


### Construction key—KB566

When the “construction” key is used, the construction pin is always in the cylinder plug, sitting on top of the bottom pin.

### Master key—KB578

When the Master key is inserted, the construction pin is pushed up into the cylinder housing. As the Master key is rotated to the right, the construction pin will drop into the hole in the plug, thereby eliminating any future use of the construction key.



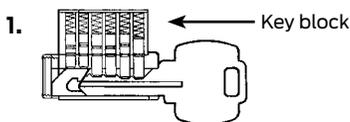
## Locks with Blockokey® cylinders

All lock cylinders on a specific project are operable by a special “project key.” Duplicates of this key may be assigned by the building contractor to workmen and subcontractors as required. No regular change keys or Master keys are needed on the job. This eliminates the possibility of subsequent exposure from lost or stolen keys.

### How to order locks with Blockokey® cylinders

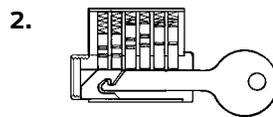
Blockokey® locksets are ordered by adding the word “Blockokey” after the balance of the ordering information.

Example: 72 Each B511 D 626 1AA-72AA (Blockokey)



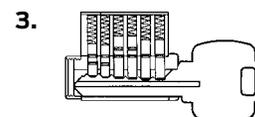
### Project key—KB531

Lock cylinder is operated by the special “project key.” The last two pins in the cylinder are held inoperative by the key block.



### Removal tool – KB536

The special “project key” is canceled out by removal of the key block. A key block removal tool is furnished with the Master keys for the locks. Simply push the removal tool into the keyway, then withdraw it to remove the block. Thereafter, the “project key” will no longer operate the lock cylinder.



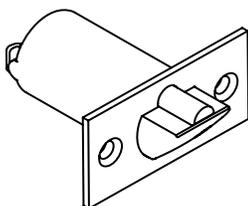
### Change or master key—KB578

Cylinder is now only operable by the regular change key or Master key.

# Options and accessories

## Latches

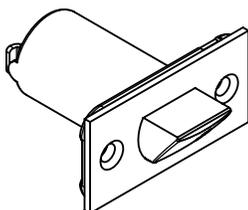
### Deadlatch



### Deadlatches

Catalog number	Description	Faceplate size	Corner	Projection
<b>Q630-385</b>	<b>2 3/4" Backset with deadlatching</b>	<b>2 1/4" X 1 1/8"</b>	<b>Square</b>	<b>1/2"</b>
Q630-387	2 3/4" Backset with deadlatching	2 1/4" X 1 1/8"	Radius	1/2"
Q630-386	2 3/8" Backset with deadlatching	2 1/4" X 1 1/8"	Square	1/2"
Q630-388	2 3/8" Backset with deadlatching	2 1/4" X 1 1/8"	Radius	1/2"
Q630-302	2 3/4" Backset with deadlatch, non-restoring	2 1/4" X 1 1/8"	Square	1/2"
Q630-274	2 3/4" Backset with deadlatch, non-restoring	2 1/4" X 1 1/8"	Radius	1/2"
Q630-301	2 3/8" Backset with deadlatch, non-restoring	2 1/4" X 1 1/8"	Square	1/2"
Q630-275	2 3/8" Backset with deadlatch, non-restoring	2 1/4" X 1 1/8"	Radius	1/2"

### Springlatch



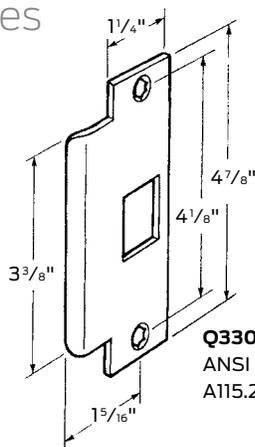
### Springlatches

Catalog number	Description	Faceplate size	Corner	Projection
<b>Q630-270</b>	<b>2 3/4" Backset with springlatch</b>	<b>2 1/4" X 1 1/8"</b>	<b>Square</b>	<b>1/2"</b>
Q630-272	2 3/4" Backset with springlatch	2 1/4" X 1 1/8"	Radius	1/2"
Q630-271	2 3/8" Backset with springlatch	2 1/4" X 1 1/8"	Square	1/2"
Q630-273	2 3/8" Backset with springlatch	2 1/4" X 1 1/8"	Radius	1/2"
Q630-266	2 3/4" Backset with springlatch, non-restoring	2 1/4" X 1 1/8"	Square	1/2"
Q630-268	2 3/4" Backset with springlatch, non-restoring	2 1/4" X 1 1/8"	Radius	1/2"
Q630-267	2 3/8" Backset with springlatch, non-restoring	2 1/4" X 1 1/8"	Square	1/2"
Q630-269	2 3/8" Backset with springlatch, non-restoring	2 1/4" X 1 1/8"	Radius	1/2"

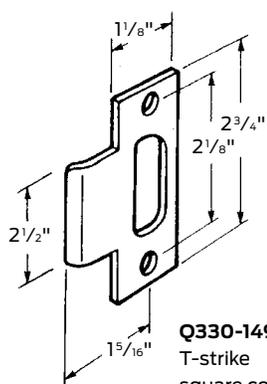
Note: All latches are UL listed and conform to both beveled and non-beveled doors.

Bolded deadlatches come standard with all keyed functions and bolded springlatches comes standard with all non-keyed functions.

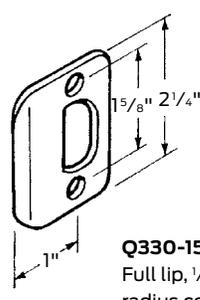
## Strikes



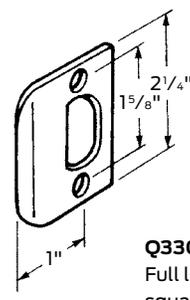
**Q330-148**  
ANSI prep  
A115.2



**Q330-149**  
T-strike  
square corner



**Q330-150**  
Full lip, 1/4"  
radius corner



**Q330-151**  
Full lip,  
square corner

## Other accessories

### Faceplates

Catalog number	Description
Q630-279	Faceplate, dead latch, round corner
Q630-278	Faceplate, dead latch, square corner
Q630-277	Faceplate, spring latch, round corner
Q630-276	Faceplate, spring latch, square corner

### Screw packs

Catalog number	Description
Q630-254	Screw pack, standard
Q330-399	Screw pack, dummy

# Competitive cross-reference

ANSI	Function	Falcon	Hager	Stanley Commercial	Yale	PDQ	Cal Royal	Arrow
		K Series	3400 Series	QCL 100 Series	4700LN Series	GT Series	Calypso Series	QL Series
F75	Passage lock	K101	3410	QCL130	4701LN	GT126	CAL30	QL01
F76	Privacy lock	K301	3440	QCL140	4702LN	GT176	CAL20	QL02/72
F82	Entry lock	K501	3450	-	4704LN	GT182	-	-
F109	Entry/office lock	K511	3453	QCL150	4707LN	GT116	CAL00	QL11/81
F84	Classroom lock	K561	3470	QCL160	4708LN	GT148	CAL03	QL17/87
F90	Corridor lock	K571	3473	QCL154	4722LN	GT165	CAL101	QL19/89
F86	Storeroom lock	K581	3480	QCL170	4705LN	GT115	CAL05	QL12/82
	Single dummy trim	K12	3417	QCL120	4755LN	GT211	CAL40	QL08

## How to order

Two simple ways to place your Falcon K Series order!

### ProExpress™

**Product available:** August 2015  
**E-Mail:** Order.Pro.Express@allegion.com  
**Fax:** 1.800.924.3551

Note: ProExpress offers a limited amount of Falcon K Series configurations. Please consult the ProExpress price book for details.

### Standard Falcon order

**Product available:** Fourth quarter 2015  
**E-Mail:** Order\_Entry\_Schlage\_Commercial@allegion.com  
**Fax:** 1.800.452.0665

Note: The entire Falcon K Series offering will be available via a standard Falcon order in Fourth quarter 2015. Please consult the Falcon price book for details.

### Order example

Line item	Qty	Product	Design	Finish	Latch	Strike	Door thickness
1	10	K511PD	DAN	626			

Note: Only specify latch, strike and door thickness if item is not standard

## Warranty

The Falcon K Series lock has a limited 10 year warranty.  
Please reference [www.us.allegion.com](http://www.us.allegion.com) for Falcon product warranty details.

## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries.

For more, visit [www.allegion.com](http://www.allegion.com)

*aptiQ* ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN

**FALCON**®

# Locks

Product catalog



## The Falcon difference

Safety, security and uncompromising value

At Falcon, we know that every product you sell not only has to meet local building codes, but also your expectations for performance and quality. We take your expectations seriously, and that's why we build our locks to deliver durability, convenience and unmatched value. After all, we've built our reputation on the same standards that you have – providing quality products at a reasonable price, delivered on time. It's the way we do business and it's what makes Falcon locks a powerful choice no matter your project.



[www.falconlock.com](http://www.falconlock.com)



US 877.671.7011  
Canada 800.900.4734



[www.youtube.com/falconhardware](http://www.youtube.com/falconhardware)

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### Standard Falcon order



[Order\\_Entry\\_Schlage\\_Commercial@allegion.com](mailto:Order_Entry_Schlage_Commercial@allegion.com)



Fax to 1.800.452.0665

### ProExpress™ order



[Order.Pro.Express@allegion.com](mailto:Order.Pro.Express@allegion.com)



Fax to 1.800.924.3551





Locks overview

Falcon offers Grade 1 and Grade 2 cylindrical, deadbolt, mortise, interconnected, and extra-heavy duty pre-assembled unit locks that fit a variety of applications and door functions.



T Series



K Series



B Series



W Series



RU Series

	Cylindrical				Unit
<b>Features</b>	<ul style="list-style-type: none"> <li>Grade 1 certified</li> <li>Wide variety of functions and options</li> <li>Can accept competitive conventional, SFIC and FSIC cylinders</li> </ul>	<ul style="list-style-type: none"> <li>Grade 1 certified</li> <li>Most common functions, lever styles and finishes</li> <li>Affordable price</li> <li>Accepts conventional and SFIC cylinders</li> </ul>	<ul style="list-style-type: none"> <li>Grade 2 certified</li> <li>Designed for durability at a Grade 2 price point</li> <li>Accepts conventional and SFIC cylinders</li> </ul>	<ul style="list-style-type: none"> <li>Grade 2 certified</li> <li>Two rose diameter options to match most commercial door trim</li> <li>Accepts conventional and SFIC cylinders</li> </ul>	<ul style="list-style-type: none"> <li>Grade 1 certified</li> <li>Old-fashioned fit with modern strength, security and convenience</li> <li>Can accept competitive conventional, SFIC and FSIC cylinders</li> </ul>
<b>Application</b>	<ul style="list-style-type: none"> <li>Ideal for new construction and retrofit applications where Grade 1 security is needed</li> </ul>	<ul style="list-style-type: none"> <li>Where Grade 1 security and reliability are needed, but cost is a concern</li> </ul>	<ul style="list-style-type: none"> <li>Where frequent use is expected and durability is needed, but Grade 1 security isn't required</li> </ul>	<ul style="list-style-type: none"> <li>As a price sensitive solution orderable in a wide selection of designs and finishes</li> </ul>	<ul style="list-style-type: none"> <li>Retrofitting older and historical buildings where Grade 1 security is required</li> </ul>
<b>Options</b>	<ul style="list-style-type: none"> <li>13 mechanical/2 electrified commercial functions</li> <li>8 finishes</li> <li>7 lever designs</li> </ul>	<ul style="list-style-type: none"> <li>8 commercial functions</li> <li>2 finishes</li> <li>3 lever designs</li> </ul>	<ul style="list-style-type: none"> <li>10 commercial functions</li> <li>5 finishes</li> <li>2 lever designs</li> </ul>	<ul style="list-style-type: none"> <li>11 commercial lever functions</li> <li>9 commercial knob functions</li> <li>8 finishes</li> <li>7 lever/2 knob designs</li> <li>2 rose options</li> </ul>	<ul style="list-style-type: none"> <li>10 mechanical/2 electrified commercial functions</li> <li>2 finishes</li> <li>2 lever designs</li> </ul>



MA Series



H2 Series



D100 Series



D200 Series

	Mortise	Interconnected	Deadbolt	
<b>Features</b>	<ul style="list-style-type: none"> <li>Grade 1 certified</li> <li>One of Falcon's toughest locks—built to stand up to constant use without fail</li> <li>Accepts conventional and SFIC cylinders</li> </ul>	<ul style="list-style-type: none"> <li>Grade 2 certified</li> <li>Large inner plate that connects lock and deadbolt</li> <li>Exterior has the appearance of a tubular lock and deadbolt</li> <li>Accepts conventional and SFIC cylinders</li> </ul>	<ul style="list-style-type: none"> <li>Grade 1 certified for security</li> <li>Hardened steel bolt with anti-saw pin</li> <li>Supplemental protection against break-in</li> <li>Accepts conventional and SFIC cylinders</li> </ul>	<ul style="list-style-type: none"> <li>Grade 2 certified for security</li> <li>Zinc bolt with anti-saw pin</li> <li>Supplemental protection against break-in</li> <li>Accepts conventional and SFIC cylinders</li> </ul>
<b>Application</b>	<ul style="list-style-type: none"> <li>Where a reliable and durable Grade 1 security lock is required</li> <li>Facilities where a large variety of functions are needed</li> </ul>	<ul style="list-style-type: none"> <li>Where strength and security are required, but cost is a concern</li> <li>Use in multi-family applications for supplemental security with one-step egress</li> </ul>	<ul style="list-style-type: none"> <li>Where supplemental, Grade 1 security is required</li> </ul>	<ul style="list-style-type: none"> <li>Where supplemental, Grade 2 security is required</li> </ul>
<b>Options</b>	<ul style="list-style-type: none"> <li>26 mechanical/ 2 electrified commercial functions</li> <li>9 finishes</li> <li>8 lever designs</li> <li>1 knob design</li> <li>Rose (sectional) and escutcheon options</li> </ul>	<ul style="list-style-type: none"> <li>2 commercial functions</li> <li>6 finishes</li> <li>8 lever designs</li> </ul>	<ul style="list-style-type: none"> <li>5 commercial functions</li> <li>5 finishes</li> </ul>	<ul style="list-style-type: none"> <li>8 commercial functions</li> <li>5 finishes</li> </ul>

## Ordering information

## Finishes

The latest in modern techniques and equipment are used to apply the highest quality finish. Extra steps assure durable, consistent finishes and long, useful life.

Color	BHMA number	US number	Cylindrical				Unit	Mortise	Interconnect	Deadbolt		Housing faces	Cylinder faces
			T	K	B	W	RU	MA	H2	D100	D200		
 Bright brass	605	US3	■	■	■		■	■	■	■	Mortise and rim	SFIC	
 Satin brass	606	US4	■	■	■		■		■	■	Mortise and rim	SFIC Conventional	
 Oil rubbed bronze	613	US10B	■	■	■	■ <sup>2</sup>	■		■	■	Mortise and rim	SFIC	
 Satin nickel	619	US15	■			■ <sup>1</sup>		■ <sup>4</sup>	■		Mortise and rim		
 Matte black	622	US19	■			■ <sup>1</sup>		■ <sup>4</sup>	■		Mortise and rim	SFIC Conventional	
 Bright chrome	625	US26	■	■	■		■	■	■	■		SFIC	
 Satin chrome	626	US26D	■	■	■	■	■	■	■	■	Mortise and rim	SFIC Conventional	
 Satin stainless steel	630	US32D						■ <sup>5</sup>			Mortise and rim <sup>3</sup>		
 Aged bronze	643e	US11	■			■ <sup>1</sup>		■ <sup>4</sup>	■		Mortise and rim	SFIC	

<sup>1</sup> Finish available for lever options only.

<sup>2</sup> Finish available for Dane lever option only.

<sup>3</sup> Also available in 629 bright stainless steel.

<sup>4</sup> Knobs not available in 619, 622 and 643e finish.

<sup>5</sup> Latitude, Longitude, Broadway and Boardwalk not available in 630 finish.

Although we apply the finest available protective plating and/or enamel coating to the surface of our products, these finishes have limitations and in time may deteriorate either from exposure to weather, pollution, perspiration, extremes of climate, frequency of use or other factors. Deterioration of these finishes is, therefore, not a defect, but a normal process which is unavoidable. Please reference product warranty for more information.

Ordering information

# How to order

For correct ordering and to help ensure no delays in the shipment of your product, follow the information sequence below. Additional information for each category can be found on other pages of this catalog and in the Falcon price book. Deadbolt ordering information can be found on page 55.

**Example: FAL-MA521P-LGN-619-LTG-218-LH**

Brand		Product number				Trim				Door detail				Keyway	Hand	Other requirements
1	2	3	4	5	6	5	6	7	8	9	10	11	12	13		
		Series	Func	Cylinder suffix	Outside		Inside		Latch part #	Strike part #	Door thickness <sup>1</sup>	Extension	Keyway	Hand <sup>2</sup>	Examples <sup>3</sup>	
FAL	-	MA	521	P6	-	LGN - 619	-	LTG	-	-	218	-	-	LH	-	
FAL	-	T	561	CP6	-	9Q - 619	-	-	-	23981129	-	-	-	Schlage C	-	A23160-OKD

Defaults to factory standard if not specified.

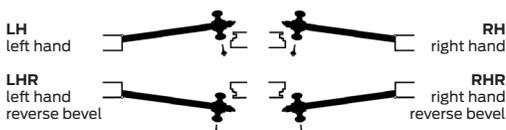
1. Enter door thickness if non-standard. Examples: 2 1/2" = 212; 2 1/4" = 214.
2. Specify for MA Series only.
3. Examples include: Latch height (RU Series only), competitive keyway cylinder part number, master keying requirements, Allegion Connect.

**Detail**

1	<b>Brand:</b> Falcon=FAL												
2	<b>Series:</b> Lock series MA, T, K, B, W, RU, or H2												
3	<b>Function:</b> Choose from cylindrical function list (page 10), MA list (page 46), and H2 list (page 51).												
4	<p><b>Cylinder suffix:</b> Choose cylinder type</p> <table border="0"> <tr> <td><b>B</b> Less SFIC</td> <td><b>H</b> SFIC refundable construction core</td> <td><b>P</b> 6-pin conventional cylinder (pinned to 5)</td> </tr> <tr> <td><b>BB</b> SFIC, Best style</td> <td><b>L</b> Less 6-pin conventional cylinder</td> <td><b>P6</b> 6-pin conventional cylinder (pinned to 6)<sup>3</sup></td> </tr> <tr> <td><b>BDC</b> SFIC disposable construction core</td> <td><b>J</b> Less FSIC<sup>2</sup> (T and RU Series only)</td> <td><b>P7</b> 7-pin conventional cylinder (pinned to 7)</td> </tr> <tr> <td><b>G<sup>1</sup></b> SFIC, Falcon style<sup>1</sup></td> <td></td> <td><b>CP6</b> 6-pin conventional cylinder, Schlage C</td> </tr> </table>	<b>B</b> Less SFIC	<b>H</b> SFIC refundable construction core	<b>P</b> 6-pin conventional cylinder (pinned to 5)	<b>BB</b> SFIC, Best style	<b>L</b> Less 6-pin conventional cylinder	<b>P6</b> 6-pin conventional cylinder (pinned to 6) <sup>3</sup>	<b>BDC</b> SFIC disposable construction core	<b>J</b> Less FSIC <sup>2</sup> (T and RU Series only)	<b>P7</b> 7-pin conventional cylinder (pinned to 7)	<b>G<sup>1</sup></b> SFIC, Falcon style <sup>1</sup>		<b>CP6</b> 6-pin conventional cylinder, Schlage C
<b>B</b> Less SFIC	<b>H</b> SFIC refundable construction core	<b>P</b> 6-pin conventional cylinder (pinned to 5)											
<b>BB</b> SFIC, Best style	<b>L</b> Less 6-pin conventional cylinder	<b>P6</b> 6-pin conventional cylinder (pinned to 6) <sup>3</sup>											
<b>BDC</b> SFIC disposable construction core	<b>J</b> Less FSIC <sup>2</sup> (T and RU Series only)	<b>P7</b> 7-pin conventional cylinder (pinned to 7)											
<b>G<sup>1</sup></b> SFIC, Falcon style <sup>1</sup>		<b>CP6</b> 6-pin conventional cylinder, Schlage C											
5	<p><b>Outside/inside trim:</b> Indicate letter of available knob or lever design followed by letter of rose or escutcheon design when appropriate. (Examples: MA and W Series have various rose and/or escutcheon options)</p> <table border="0"> <tr> <td><b>Abrasive strip tactile warning</b> Preface the design code with 6 (Ex: 6DA for DAN). Not available in 613 finish, Latitude, Longitude, Broadway and Boardwalk levers.</td> <td><b>Knurled tactile warning</b> Preface the design code with 8 (Ex: 8EG for Elite Gala). Not available on all lever styles and finishes. See MA Series section for details.</td> <td><b>Lead lining</b> Preface the design code with 9 (Ex: 9DA for DAN). Not available on all lever styles. See series section for details. Available on T, RU and MA Series.</td> </tr> </table>	<b>Abrasive strip tactile warning</b> Preface the design code with 6 (Ex: 6DA for DAN). Not available in 613 finish, Latitude, Longitude, Broadway and Boardwalk levers.	<b>Knurled tactile warning</b> Preface the design code with 8 (Ex: 8EG for Elite Gala). Not available on all lever styles and finishes. See MA Series section for details.	<b>Lead lining</b> Preface the design code with 9 (Ex: 9DA for DAN). Not available on all lever styles. See series section for details. Available on T, RU and MA Series.									
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6	<b>Outside/inside finish:</b> Choose outside finish from available options. Fill in inside finish if different.												
7	<b>Latch part number:</b> See cylindrical product page for options. Specify only if non-standard backset is required. Specify LLL for less latch.												
8	<b>Strike part number:</b> See product page for options. Specify only if non-standard strike is required. Specify LLL for less strike.												
9	<b>Door thickness:</b> See product page for options. Specify only if non-standard door thickness is required.												
10	<p><b>Extension:</b> Enter one of the following when door specified is 2" or greater. (Ei or EO assumes the latch will be centered on a 1 3/4" door to which material has been added.)</p> <table border="0"> <tr> <td><b>EE</b> Extended Equally</td> <td><b>EI</b> Extended Inside</td> </tr> <tr> <td><b>EO</b> Extended Outside</td> <td><b>ED</b> Extended Differently</td> </tr> </table>	<b>EE</b> Extended Equally	<b>EI</b> Extended Inside	<b>EO</b> Extended Outside	<b>ED</b> Extended Differently								
<b>EE</b> Extended Equally	<b>EI</b> Extended Inside												
<b>EO</b> Extended Outside	<b>ED</b> Extended Differently												
11	<b>Keyway:</b> G keyway (KD) is standard when ordering P, P6 or P7 conventional cylinders; A keyway (KD) is standard when ordering BB, BDC, G or H SFIC cylinders. Other keyways available.												
12	<b>Handing:</b> Provide handing when ordering MA Series. All cylindrical locks are field handed.												
13	<p><b>Additional requirements:</b></p> <ul style="list-style-type: none"> <li>▪ Latch height when specifying RU Series locks</li> <li>▪ Competitive keyway cylinders: Specify part number<sup>3</sup></li> <li>▪ Keying detail: Blockokey or additional keys (with quantity) requests, large bow keys, master keying (Example: Grand Master keyed, Master keyed, change key, etc.)</li> <li>▪ Allegion Connect</li> </ul>												

1. 6-pin standard, specify G7 if 7-pin is desired.
2. Reference T and RU Series' cylinder pages for list of compatible competitor FSIC cylinders. Note the competitive cylinder brand and model in the "Other requirements" section so that a proper tailpiece can be supplied.
3. Specify P6 and list the cylinder part number under "other requirements" if a 6-pin competitive keyway cylinder is desired (see series' cylinder pages for options).

**Door handing**



The hand is determined by the direction the door swings when viewed from the exterior or corridor side of the door.

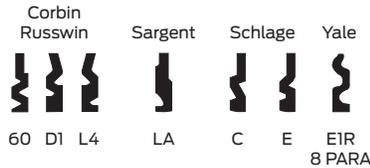
Ordering information

# Large and small format keying

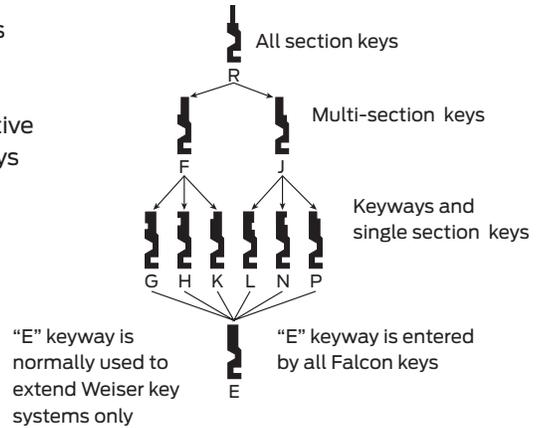
## Conventional large format keyways

"G" keyway is standard for all Falcon conventional cylinders and will be supplied unless otherwise specified. The multiplex key system structure is used to expand keying systems which require more than one keyway.

Falcon bored locksets are also available with the most common competitive open keyways. Falcon does not offer master keying of competitive keyways with the exception of Schlage C keyway. For more information on large format keying options, please reference each lock series section.



## Falcon multiplex key family



## Small Format Interchangeable Core (SFIC) keyways



The "A" keyway is standard for SFIC products and will be supplied unless otherwise specified. Falcon keyways shown here are equivalent to Best and Arrow SFIC keyways of the same names.



Consult factory for restricted keyways not listed here. When ordering locks or cores master keyed into existing Best, Arrow or other compatible SFIC systems, a copy of the bitting list for the existing system is required with the order.

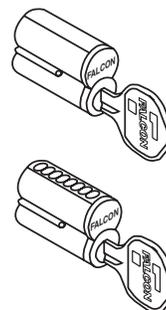
## A2, A3 and A4 systems

Falcon master keying uses the A2 System (depths 0-9) standard. We can provide cores into competitors' A4 (depths 0-5) key systems but we generate new A4 systems solely at the discretion of our Key Systems Department. We do not support the A3 System (Depths 0-6). However, any Falcon core can be combined to A3 specs in the field.

## SFIC cylinders

	Uncombined		Combined	
	6-pin	7-pin	6-pin	7-pin
Falcon cover style (standard)	C646	C647	C606	C607
Best style capping	CB846	CB847	CB806	CB807
No logo	C648	C649	C608	C609
No logo, Best capping	CB848	CB849	CB808	CB809

Note: The "A" keyway is standard and will be supplied unless otherwise specified. If ordering cylinders as parts, specify finish: 605, 606, 613, 622, 625, 626 or 643e.



Interchangeable core cover style

Interchangeable core cap style

## Compatibility with competitors' SFIC cylinders

Falcon locksets also accept Schlage SFIC, Arrow (including Flex Core), Best (including PKS and Peaks), InstaKey, Kaba Peaks, Keymark and KSP cores. When specifying "B" for less SFIC cylinder, please note that these manufacturer's cylinders all fit the Falcon lever and spring cage configuration. The appropriate Falcon tailpiece will be provided with the lockset.

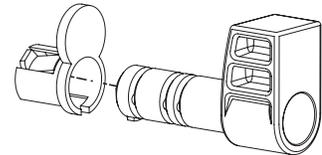
## Ordering information

# Construction keying options

Falcon offers various pathways to achieve either temporary or permanent cylinder construction keying. Temporary cylinder use is limited to small format keying since SFIC cylinders, by nature, are easily interchanged. Falcon conventional cylinders can be construction keyed using the "lost pin," (also known as "lost ball") method or the Falcon Blockokey® insert. In both cases, temporary construction keys are used with the permanent cylinders during construction to protect the integrity of the master key system. Once the project is complete, new owners can clear the cylinder of construction keying and begin to use the permanent operating keys.

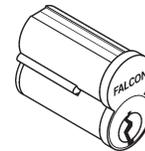
### Disposable SFIC construction core (specify BDC as the cylinder suffix)

This disposable plastic core is intended for use only when security is not a concern. When inserted into the lever, knob or mortise housing, this keyless core simply acts as a thumbturn to retract the latch bolt. Perimeter or higher security areas should use the Falcon SFIC construction cylinder.



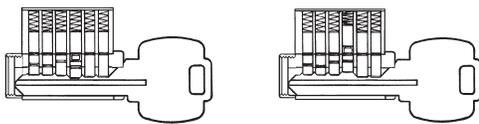
### Refundable SFIC construction cylinders (specify H as the cylinder suffix)

Falcon brass construction cores are provided keyed alike to a combination unrelated to the permanent system's master key. Upon project completion, these cylinders are replaced with the permanent SFIC cylinders and returned to Allegion for credit.



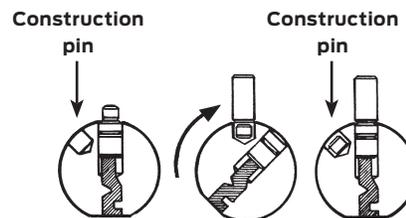
### "Lost pin" conventional cylinders (specify "lost pin" or part 50-211 under additional details)

Lost pin uses the job site's permanent conventional cylinders supplied with a shallow hole in the side of the plug. An extra pin is inserted into the cylinder on top of one of the bottom pins. Use of a temporary construction key allows the pin to stay in the cylinder and still function normally as an operating key. Upon project completion, a master key inserted into the cylinder and rotated right will push the pin into the hole and eliminate any possible future use of the construction key.



Construction key use

Master key use

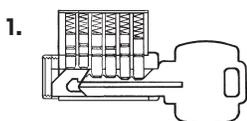


### Locks with Blockokey® cylinder inserts

All locks for a specific project are provided with a key blocking insert and a special construction key. Duplicates of this key may be assigned by the building contractor to workmen and subcontractors as required. No regular change keys or Master keys are needed on the job. This eliminates the possibility of subsequent exposure from lost or stolen keys.

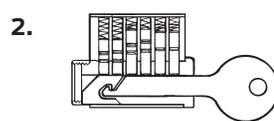
### How to order locks with Blockokey® inserts

Simply add the word "Blockokey" (part 50-212) in the additional details section. Any Falcon conventional cylinder can be ordered with Blockokey inserts but there are some limitations on keyway availability. Check with customer service for details. Example: FAL-MA521PD-AG-619-RH-Blockokey



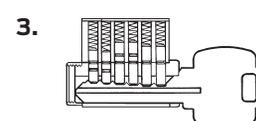
#### Construction key use

Lock cylinder is operated by the special "construction key." The last two pins in the cylinder are held inoperative by the key block.



#### Removal tool use

The special "construction key" is canceled out by removal of the key block. A key block removal tool is furnished with the Master keys for the locks. Simply push the removal tool into the keyway, then withdraw it to remove the block.



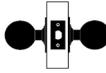
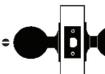
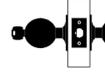
#### Change or master key use

Cylinder is now only operable by the regular change key or Master key.

## Functions

# Cylindrical and unit lock functions

These pages contain the ordering function codes for Falcon locks on a cylindrical design which includes the RU Series unit lock. A cylindrical lock, also referred to as a bored lock, is a lock in which a large hole is bored into the door face of a door and a smaller cross-bore hole is bored into the door edge. These locks fit a variety of applications and can be Grade 1 or Grade 2. The unit lock is designed specifically for retrofitting older and historical buildings where doors have an existing prep cut or drilled for an old-fashioned lock design.

Function	Unit		Cylindrical		SFIC	Name	Description
	Unit lock	Lever	Knob				
101	ANSI F36 RU 	ANSI F75 T, K, B, W <sup>2</sup> 	W 			Passage/closet latch	Latch bolt operated by levers/knobs from either side at all times.
161		ANSI F111 B, W <sup>2</sup> 				Communicating/exit set	Latch bolt operated by inside lever/knob. Non-removable blank plate outside. Inside lever/knob always free for immediate egress.
201		ANSI F77 W 				Patio lock	Latch bolt operated by levers. Outside lever is locked by push button from inside. Rotating inside lever or closing door releases button and unlocks outside lever. Inside lever always free for immediate egress.
291		T 				Privacy hospital lock	Latch bolt operated by levers from either side. Outside lever locked by push button on inside lever. Rotating inside lever, closing door, or turning emergency release turn button on outside releases button. Inside lever always free for immediate egress.
301	ANSI F37 RU 	ANSI F76 T, K, B, W <sup>2</sup> 	ANSI F76 W 			Bath/bedroom privacy lock	Latch bolt operated by levers/knobs from either side. Outside locked by push button on inside lever/knob. Rotating inside lever/knob or closing door releases button. Emergency release tool used on outside unlocks door. Inside lever/knob always free for immediate egress.
341		B 				Communicating store room lock	Latch bolt operated by inside lever except when locked by key. Non-removable blank plate outside.
351		T 		Y		Closet lock	Latch bolt operated by lever/turn knob from either side except when outside lever is locked by key.
381	ANSI F45 RU 	ANSI F88 T 		Y		Classroom security lock	Latch bolt operated by levers from either side except when outside lever is locked from inside or outside by key. Unlock by key outside or by operating inside lever. Inside lever always free for immediate egress.
411	RU 	ANSI F87 T 		Y		Asylum lock <sup>1</sup>	Latch bolt operated by key from either side. Both levers/knobs always inoperable.
501	ANSI F41 RU 	ANSI F82 T, K, B, W 	ANSI F82 W 	Y		Entry lock	Latch bolt operated by levers/knobs from either side. Push button locking. Button on inside locks outside lever/knob until unlocked by key outside or by rotating inside lever/knob. Inside always free for immediate egress.

Function note: This lock will stay locked when the door is closed. If you want your door to unlock when it closes, please purchase the 571 function.

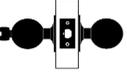
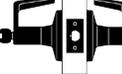
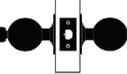
1. Caution: Double cylinder locks on residences and any door, in any structure, which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

2. W Series lock levers available with small rose.

3. In the W Series you cannot lock from outside using key, locking function inside only.

## Functions

# Cylindrical and unit lock functions

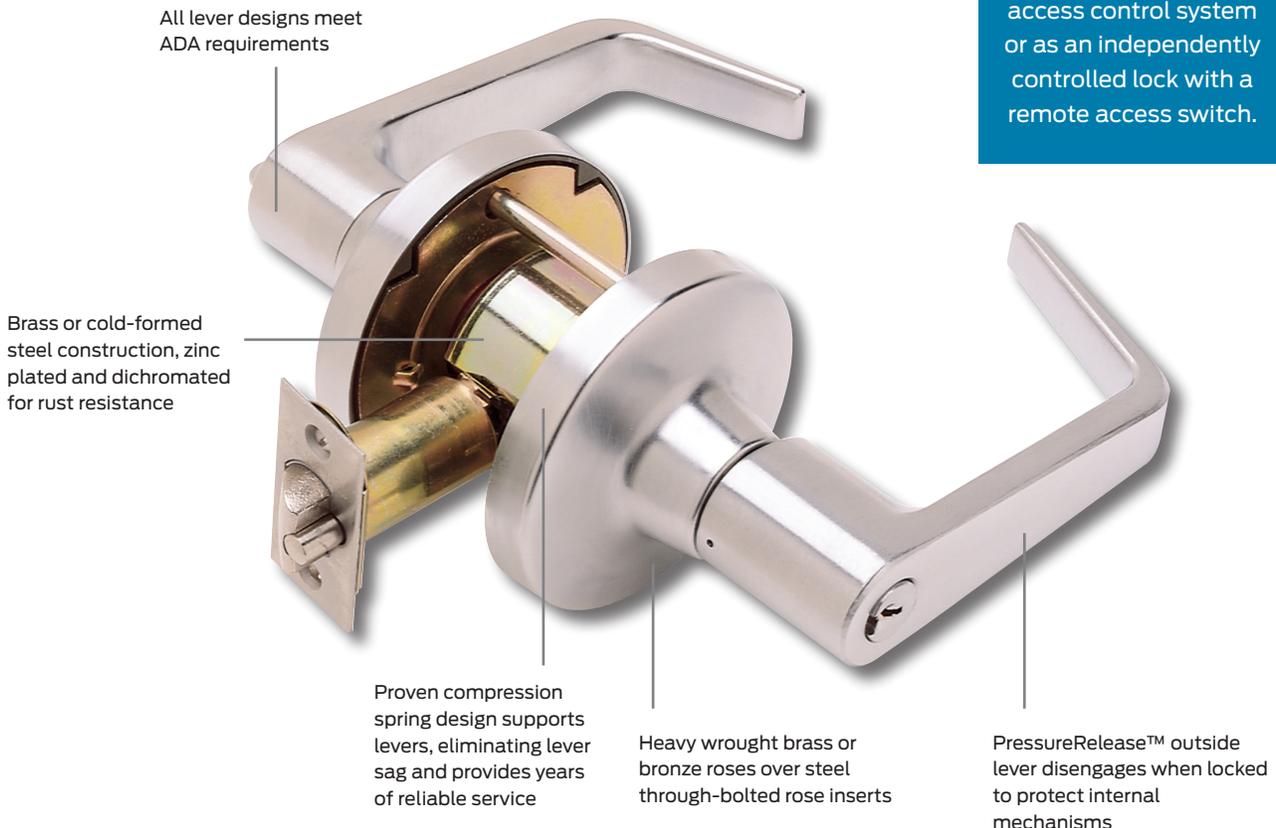
Function	Unit	Cylindrical		SFIC	Name	Description
	Unit lock	Lever	Knob			
511	ANSI F40/F41 RU	ANSI F109 T, K, B, W <sup>2</sup>	ANSI F109 W	Y	Entry/office lock	Turn/push button locking: Pushing and turning button locks outside lever/knob requiring use of key until button is manually unlocked. Push button locking: Pushing button locks outside lever/knob until unlocked by key or by rotating inside lever. Inside lever always free for immediate egress. Latch bolt operated by levers/knobs. Key enables only unlocking from outside.
						
521	ANSI F40 RU	ANSI F81 T		Y	Office lock	Turn button locking. Turning button locks outside lever/knob requiring use of key until button is manually unlocked. Latch bolt operated by levers/knobs. Key enables only unlocking from outside. Inside always free for immediate egress.
						
561	ANSI F42 RU	ANSI F84 T, K, B, W <sup>2</sup>	ANSI F84 W	Y	Classroom lock	Latch bolt operated by levers/knobs. Outside lever is locked by key in outside lever/knob. Inside always free for immediate egress.
						
571 (order as 611 for B Series)	ANSI F48 RU	ANSI F90 T, K, B, W <sup>2,3</sup>	ANSI F90 W <sup>3</sup>	Y	Dormitory/ corridor lock	Latch bolt operated by levers/knobs except when locked by push button from inside. Key in outside lever/knob locks or unlocks lever/knob and releases button. Closing door releases push button. Inside always free for immediate egress.  Function note: This lock will unlock when the door is closed. If you want your door to remain locked when it closes, please purchase the 501 function.
						
581	ANSI F44 RU	ANSI F86 T, K, B, W <sup>2</sup>	ANSI F86 W	Y	Storeroom lock	Latch bolt operated by lever/knob inside or key outside. Outside lever/knob is inoperable. Inside always free for immediate egress.
						
711		W	W		Apartment entrance lock	Latch bolt operated by levers/knobs. Turn/push button locking: Pushing and turning button locks outside lever/knob requiring use of a key for unlocking the door until button is manually unlocked. Push button locking: Pushing button locks outside lever until unlocked by key, by rotating inside lever, or by closing the door. Inside always free for immediate egress.
						
851	RU	T		Y	Storeroom (electrified-fail safe)	Latch bolt operated by lever from either side except when outer lever is electrically locked. When outer lever is locked (inoperable), latch bolt retracted by key in cylinder outside. Inside lever always free for immediate egress.  Note: Specify 12V (.65 Amps) or 24V (.32 Amps) DC, continuous duty.
						
881	RU	T		Y	Storeroom (electrified-fail secure)	Latch bolt operated by lever inside except when outer lever is electrically unlocked, then latch bolt from either side. When locked, key in cylinder outside retracts latch bolt. Inside lever always free for immediate egress.  Note: Specify 12V (.65 Amps) or 24V (.32 Amps) DC, continuous duty.
						
12		T, K, B, W <sup>2</sup>	W		Dummy trim	Single trim, surface-mounted rigid lever/knob. Double dummy trim available for W Series (levers only).
						

# T Series

Grade 1, extra heavy-duty cylindrical lever locks

Simply put, the Falcon T Series lock is the most versatile lockset in the industry. This extra heavy-duty lock can accept most manufacturer's cylinders. Designed with compression springs in the spring cages, T Series virtually eliminates lever sag for long lasting performance. This adaptable lock is well suited for either new construction or retrofit use in buildings as varied as multi-family, retail, institutional and government/military.

## Features



## Specifications

# T Series

### Product specifications

**ANSI/BHMA:** Certified ANSI/BHMA A156.2, Series 4000, Grade 1.

**UL:** Listed for 3-hour fire door, A label.

**Functions:** 13 mechanical and 2 electrified (24 VDC .185 Amp) commercial functions available. See page 10 for details.

**Finishes:** 8 options available. See page 6 for finish color and comparative chart.

**Door thickness:** 1 3/4" to 2 1/4" standard. Thin door adapter kit (A30775-000-00) available for doors 1 3/8" to 1 3/4", please specify door thickness.

**Backset:** 2 3/4" standard. 2 3/8", 3 3/4" and 5" also available (see price book).

**Mechanism:** Parts constructed of brass or cold formed steel, zinc plated and dichromated for rust resistance. Springs are stainless steel. compression spring design supports levers, eliminating lever sag and providing years of reliable service.

**Attachment:** Lock chassis secured to door by threaded mounting nuts. Preassembled outer trim and inner spindle assembly are through-bolted over chassis using two (2) 10-32 screws. Adding rose and lever to inner spindle assembly completes installation.

**Handing:** Locks are non-handed.

**Cylinders:** Conventional cylinder, drilled with 6-pin chambers, pinned in 5 comes standard. Pinning in 6 chambers available (at no cost) when specified. Optional 7-pin conventional and 6- or 7-pin Small Format Interchangeable Core (SFIC) cylinders. Cylinder housings and plugs machined from solid brass. Springs are phosphor bronze. Two nickel silver keys furnished standard. See SFIC cylinder information on page 8 and T Series cylinder pages for additional options.

**Keys:** "G" keyway standard on conventional cylinders. "A" keyway standard on SFIC cylinders. Additional options: Falcon, Schlage and many Best and Arrow keyways.

**Trim:** Roses are heavy wrought brass or bronze, installed over pressure cast rose inserts which are through-bolted. Levers are pressure cast (solid levers—no inserts) material finished to match mating parts.

**Latches:** 1/2" bolt projection, UL listed with square corner latch faceplate 2 1/4" x 1 1/8" standard. See options section for more latches.

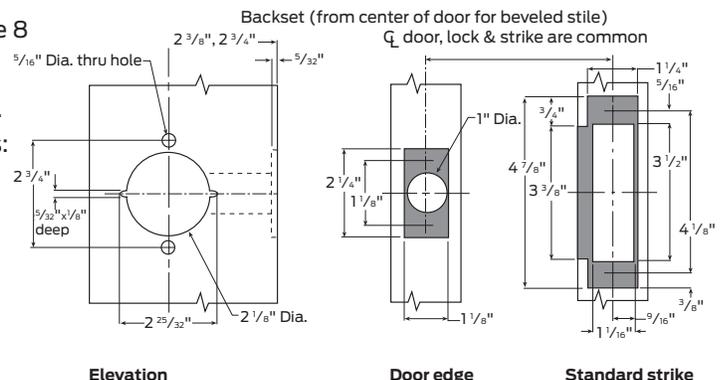
**Strikes:** 4 7/8" x 1 1/4" ANSI strike with curved lip to meet ANSI A115.2 door frame preparation standard.

**Screws:** Furnished with combination screws for use in wood or metal doors and frames.

### Architectural specifications

Key-in-lever cylindrical locksets shall be Falcon lock T Series or equal and meet the following requirements:

- All locks shall meet the ANSI/BHMA A156.2, Series 4000, Grade 1 for key-in-lever locksets.
- Locksets shall be UL Listed (3 hour A Label).
- Locksets shall be provided standard with a clutching lever design. When outside lever is locked, it is not rigid but will move freely without operating the latch bolt.
- Lever trim shall have individual heavy-duty compression springs behind rose for lever return and to prevent lever sag. Trim shall be through-bolted with two (2) 10-32 screws coated with thread sealant to provide strength and resistance to loosening. Inner and outer trim shall "bottom out" to prevent door collapse. Roses shall be minimum of 3 1/2" diameter.
- All lever designs shall be solid and meet the federal ADA and state disability requirements. Inside levers shall be attached by Allen-head set screw to prevent tampering or vandalism.
- Locksets shall adjust to fit door thickness from 1 3/4" to 2 1/8".
- All locksets shall be non-handed and not require field disassembly for re-handing.
- Preparation for door must be non-handed.
- Acceptable manufacturer: Falcon lock



## Designs and styles

# Lever styles

Levers are solid pressure cast zinc, finished to match mating parts. Roses are wrought brass or bronze installed over steel, through-bolted rose inserts. Pressure Release™ levers are standard. Levers are secured by a spring-loaded retainer. Retainer cannot be depressed when locks have been locked.

Avalon (A)



Boardwalk (BRK)



Broadway (BRW)



Dane (D)



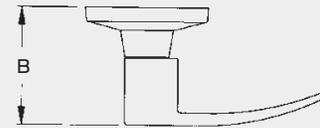
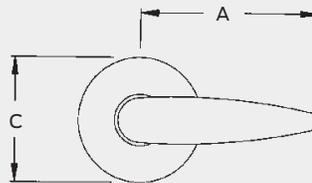
Latitude (LAT)



Longitude (LON)



Quantum (Q)



### Abrasive strip levers

Avalon, Dane, and Quantum levers are available with an abrasive strip along the inside length of the lever to identify entrances that may be to areas hazardous to the handicapped. To order, preface the design code with a 6 (example: 6DA for Dane). Not available on 613 finish as abrasive strip will not hold.

### Finishes

Available in BHMA 605, 606, 613, 619, 622, 625, 626, and 643e. See page 6 for finish color and comparative chart.

### Lever dimensions chart

Lever	A - width	B - projection	C - rose
Avalon (A)	5"	3 1/4"	3 1/2"
Boardwalk (BRK)	5"	3 7/8"	3 1/2"
Broadway (BRW)	4 1/2"	3 7/8"	3 1/2"
Dane (D)	5"	3 1/4"	3 1/2"
Latitude (LAT)	4 1/2"	3 7/8"	3 1/2"
Longitude (LON)	5"	3 7/8"	3 1/2"
Quantum (Q)	5"	3 1/4"	3 1/2"

Note: Return to door meets 1/2" requirement for Dane (D), Quantum (Q), Boardwalk (BRK) and Longitude (LON) levers.

## Cylinders

## T Series cylinders

## Falcon Small Format Interchangeable Core (SFIC) cylinders

Falcon offers a wide selection of keyways in SFIC cylinder formats. Master keying is available and, in most cases, Falcon can even furnish cores master keyed into existing Best or Arrow key systems. See page 8 for details.

## Conventional cylinders (Falcon keyways)

5-Pin cylinder	6-Pin cylinder	7-Pin cylinder	Function
A23151-05	A23161-05	A23171-05	All except 381 I/S, 571
A23151-06	A23161-06	A23171-06	381 Inside cylinder
A23151-07	A23161-07	A23171-07	571

Note: The "G" keyway is standard and will be supplied unless otherwise specified. Master keying is available for 2, 3, and 4 levels. Open keyways include E, H, K, L, and P. If ordering cylinders as parts, specify finish: 606, 622 or 626.

## To order conventional cylinders in competitive keyways (6-pin)

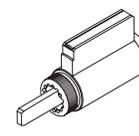
When specifying a competitive cylinder, reference the How-to-order page for correct cylinder suffix and be sure to list brand plus keyway under the "Keyway" section and the correct part number from the list below in the "Additional Details" area of the part number order string.

Brand	Keyway	O-Bit	KA	KD	Lock function
Corbin	60	A23167-000	-	A23167-0KD	All except 571 and 381(I/S)
		A23167-011	A23167-11A	A23167-11D	381(I/S)
		A23167-012	A23167-12A	A23167-12D	571
Corbin Russwin	L4	A23174-000	A23174-0KA	-	All except 571 and 381(I/S)
		A23174-011	A23174-11A	-	381(I/S)
		A23174-012	-	-	571
Russwin	D1	A23168-000	-	A23168-0KD	All except 571 and 381(I/S)
		A23168-011	-	A23168-11D	381(I/S)
		A23168-012	-	A23168-12D	571
Sargent	LA	A23166-000	-	A23166-0KD	All except 571 and 381(I/S)
		A23166-011	-	A23166-11D	381(I/S)
		A23166-012	-	A23166-12D	571
Schlage	C	A23160-000	A23160-0KA	A23160-0KD	All except 571 and 381(I/S)
		A23160-011	A23160-11A	A23160-11D	381(I/S)
		A23160-012	A23160-12A	A23160-12D	571
	E	A23159-000	-	-	All except 571 and 381(I/S)
		A23159-011	-	-	381(I/S)
A23159-012	-	-	571		
Yale	8 (Para)	A23169-000	-	A23169-0KD	All except 571 and 381(I/S)
		A23169-011	-	A23169-11D	381(I/S)
		A23169-012	-	A23169-12D	571

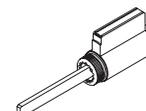
Note: Competitor keyways are furnished 0 bitted, unless otherwise specified. Not available Master keyed, except Schlage C. KD option is not available for locks containing 2 cylinders.



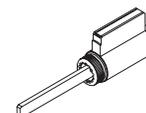
Conventional cylinder



T381 Inside



T571



T Series  
All other functions

## Cylinders

## T Series compatible cylinders

## Reference chart for locks ordered less cylinder

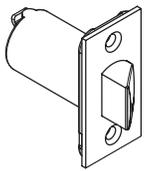
Falcon offers many "less cylinder" options for when you need a quality lock to fit into an existing key system. For levers prepared to fit competitive key systems, please reference the lists below. A proper tailpiece is supplied with the lock unless otherwise noted.

Conventional cylinders	Full Size IC	Unit/Mono locks
Assa 65611 and 65661, 6-pin <sup>1</sup>	Assa 70600IC and V70600IC, 6-pin	
Corbin Russwin 2000-034 and CL3400, 6-pin (master ring not available) <sup>1</sup>	Corbin Russwin 8000, 6-pin and 8000-7, 7-pin	Corbin Russwin, 2000-052 (master ring not available)
Medeco 20W200V3, 6-pin (Falcon/Schlage style) <sup>1</sup>	Medeco 31 Series, 6-pin and 32 Series, 7-pin	Medeco 20W5005 retrofit cylinder for Corbin Russwin unit lock Medeco 20W0500 retrofit cylinder for Yale 6200 unit lock
Peaks (Kaba), 6-pin <sup>1</sup>	Peaks (Kaba), 6- and 7-pin	
Sargent 6, 7, and 10 Line, 6-pin (Keso not available)	Sargent 6300, 6-pin	
Schlage Classic and Primus, 6-pin <sup>1</sup>	Schlage Classic and Primus, 6-pin	Falcon conventional, 6-pin (R Series old small plug)
Yale 1810, 6-pin (Bicentric not available)	Yale 1210, 6-pin	Yale 1801 mono lock and later models

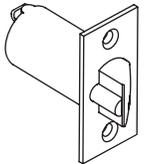
1. Tailpiece not supplied.

Options

# Latches



Springlatch



Deadlatch

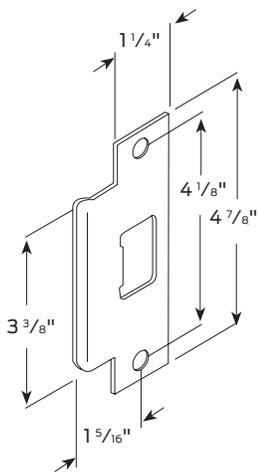
**Grade 1, UL listed**

	Specify	Backset	Description
Springlatch	23981111	2 3/8"	Square corner, 1" x 2 1/4"
	23981137	2 3/4"	Square corner, 1 1/8" x 2 1/4", standard
	24074387	3 3/4"	Square corner, 1 1/8" x 2 1/4"
Deadlatch	23981160	2 3/8"	Square corner, 1" x 2 1/4"
	23981145	2 3/4"	Square corner, 1 1/8" x 2 1/4", standard
	23981152	2 3/4"	Anti-friction fire door latch Square corner, 1 1/8" x 2 1/4", 3/4" throw
	23981129	3 3/4"	Square corner, 1 1/8" x 2 1/4"
	43-005	5"	Backset extension link

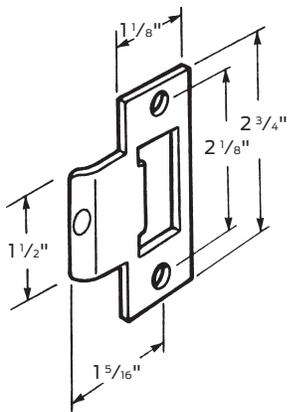
Note: Specify finish 606, 613 or 630. All latches for T Series locks are UL listed and have a 1/2" bolt projection.

# Strikes

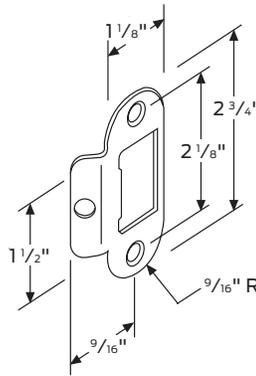
Locks furnished with a 1 1/4" x 4 7/8" ANSI Strike unless otherwise specified.  
Optional 1" deep ANSI steel dust box also available. Specify 005099-000-30.



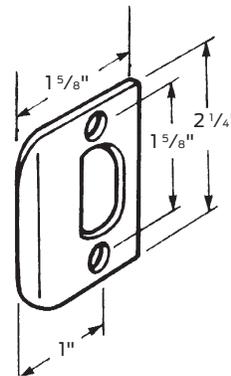
**5164**  
ANSI prep A115.2  
(standard)<sup>1</sup>



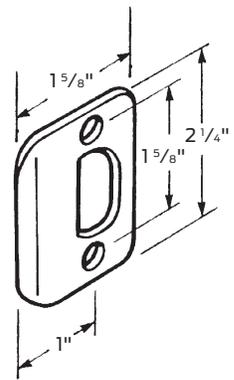
**5185**  
T-strike square corner



**5185-4**  
T-strike 9/16" radius



**01-049**  
Full lip, square corner



**01-048**  
Full lip, 1/4" radius corner

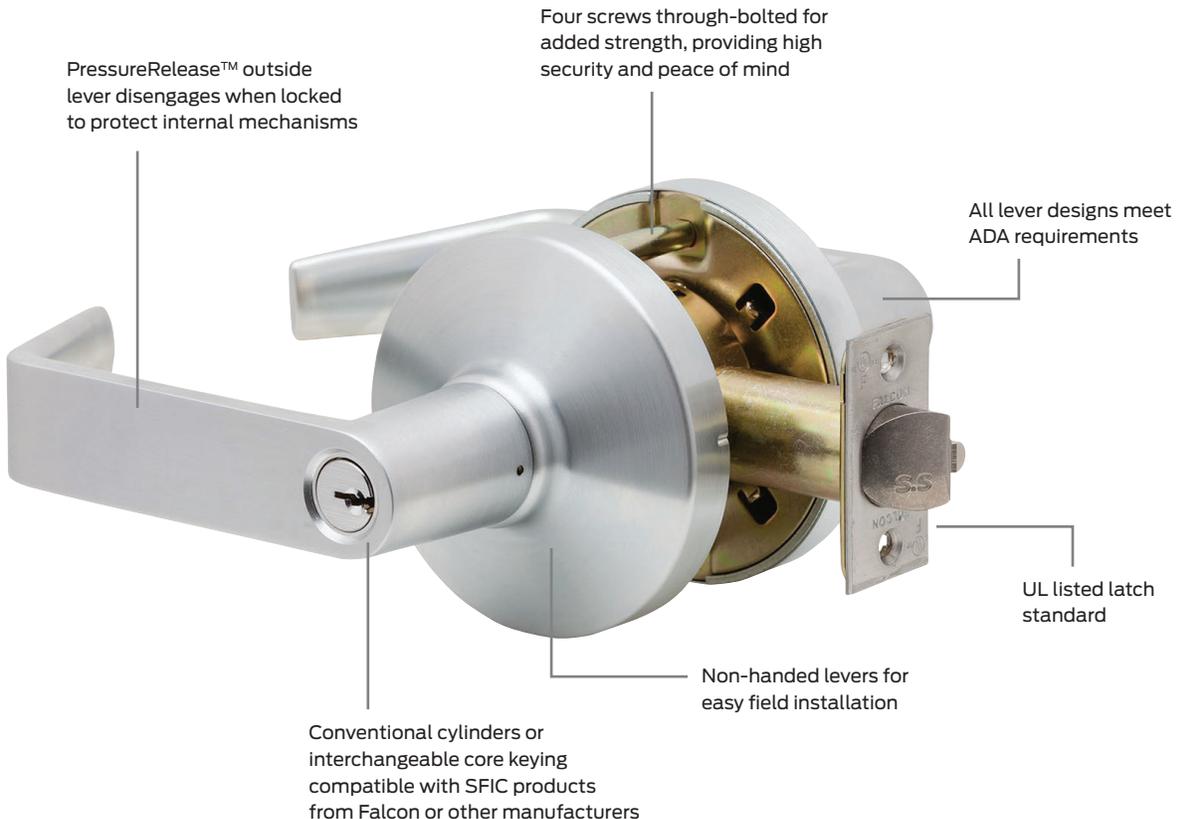
1. For ANSI prep with 7/8" lip length order 5161.

# K Series

Grade 1 cylindrical lever locks

High traffic, high abuse door openings demand a Grade 1 quality lock to keep doors secure. When quality and reliability are needed but cost is a concern, the certified ANSI/BHMA Grade 1 Falcon K Series can do the job. The Falcon K Series gets back to basics by offering the most common functions, lever styles and finishes at an affordable price. The K Series features conventional cylinders and small format interchangeable cores that are compatible with SFIC products from other manufacturers. Conventional cylinders are available in all Falcon conventional key sections, as well as Schlage C keyway, which is now master keyed across the complete Falcon product line.

## Features



## Specifications

# K Series

### Product specifications

**ANSI/BHMA:** Certified ANSI/BHMA A156.2, Series 4000, Grade 1.

**UL:** Listed for 3-hour fire door, A label.

**Functions:** 8 commercial functions available. See page 10 for details.

**Finishes:** 2 options available. See page 6 for finish color and comparative chart.

**Door thickness:** Adjustable 1 <sup>3</sup>/<sub>8</sub>" to 2 <sup>1</sup>/<sub>4</sub>". Comes set for a 1 <sup>3</sup>/<sub>4</sub>" thick door standard.

**Backset:** 2 <sup>3</sup>/<sub>4</sub>" standard. 2 <sup>3</sup>/<sub>8</sub>" optional.

**Mechanism:** Parts constructed of brass or cold formed steel, zinc plated and dichromated for rust resistance. Springs are stainless steel.

**Attachment:** Lock chassis secured to door by threaded mounting screws. Completely preassembled outer trim and inner spindle assembly are through-bolted both through and over chassis using four (4) screws to provide strength and resistance to loosening. Adding rose and lever to inner spindle assembly completes installation.

**Handing:** Locks are non-handed.

**Cylinders:** Conventional cylinder, drilled with 6-pin chambers, pinned in 5 comes standard. Pinning in 6 chambers available (at no cost) when specified. Optional 7-pin conventional and 6- or 7-pin Small Format Interchangeable Core (SFIC) cylinders. Cylinder housings and plugs machined from solid brass. Springs are phosphor bronze. Two nickel silver keys furnished standard. See SFIC cylinder information on page 8 and K Series cylinder pages for additional options.

**Keyways:** "G" keyway standard on conventional cylinders. "A" keyway standard on SFIC cylinders. Additional options: Falcon, Schlage and many Best and Arrow keyways.

**Trim:** Roses are heavy wrought brass or bronze, installed over pressure cast rose inserts which are through-bolted through door. Levers are pressure cast (solid levers—no inserts) material finished to match mating parts.

**Latches:** 2 <sup>1</sup>/<sub>4</sub>" x 1 <sup>1</sup>/<sub>8</sub>" square corner with 2 <sup>3</sup>/<sub>4</sub>" backset comes standard; 2 <sup>3</sup>/<sub>8</sub>" backset option available if specified. Radius corners for both 2 <sup>3</sup>/<sub>8</sub>" and 2 <sup>3</sup>/<sub>4</sub>" backsets available if specified. All latches are UL listed and conform to both beveled and non-beveled doors.

**Strikes:** 4 <sup>7</sup>/<sub>8</sub>" x 1 <sup>1</sup>/<sub>4</sub>" ANSI strike with curved lip to meet ANSI A115.2 door frame preparation standard.

**Screws:** Furnished with combination screws for use in wood or metal doors and frames.

### Architectural specifications

Key-in-lever cylindrical locksets shall be Falcon lock K Series or equal and meet the following requirements:

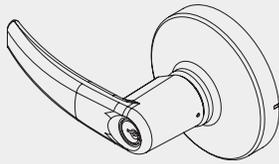
- All locks shall meet the ANSI/BHMA A156.2, Series 4000, Grade 1 for key-in-lever locksets.
- Locksets shall be UL Listed (3 hour A Label).
- Locksets shall be provided standard with a clutching lever design. When outside lever is locked, it is not rigid but will move freely without operating the latch bolt.
- Lever trim shall have individual torsion springs behind rose for lever return and to prevent lever sag. Trim shall be through bolted with four (4) screws to provide strength and resistance to loosening. Inner and outer trim shall "bottom out" to prevent door collapse. Roses shall be minimum of 3 <sup>1</sup>/<sub>2</sub>" diameter.
- All lever designs shall be solid and meet the federal ADA and state disability requirements. Inside levers shall be attached by allen-head set and lever catch to prevent tampering or vandalism.
- Locksets shall adjust to fit door thickness from 1 <sup>3</sup>/<sub>8</sub>" to 2 <sup>1</sup>/<sub>4</sub>".
- All locksets shall be non-handed and not require field disassembly for re-handing.
- Preparation for door must be non-handed.
- Cylinders to be secured by a dual retainer.
- Acceptable manufacturer: Falcon Lock

## Designs and styles

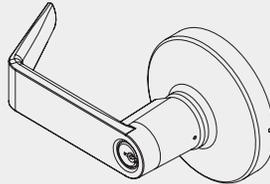
# Lever styles

Levers are solid pressure cast zinc, finished to match mating parts. Roses are wrought brass or bronze installed over steel, through-bolted rose inserts. Pressure Release™ levers are standard. Levers are secured by a spring-loaded retainer. Retainer cannot be depressed when locks have been locked.

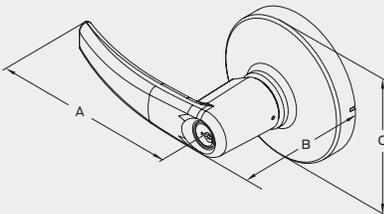
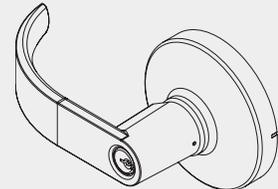
### Avalon



### Dane



### Quantum



### Lever dimensions chart

Lever	A - width	B - projection	C - rose
Avalon (A)	4 1/2"	3 1/8"	3 1/2"
Dane (D)	5"	3 1/8"	3 1/2"
Quantum (Q)	5"	3 1/8"	3 1/2"

Note: Return to door meets 1/2" requirement for Dane (D) and Quantum (Q) levers.

### Finishes

Available in BHMA 613 and 626. See page 6 for finish color and comparative chart.

## Cylinders

# K Series cylinders

### Falcon Small Format Interchangeable Core (SFIC) cylinders

Falcon offers a wide selection of keyways in SFIC cylinder formats. Master keying is available and, in most cases, Falcon can even furnish cores master keyed into existing Best or Arrow key systems. See page 8 for details.

### Conventional cylinders (Falcon keyways)

Catalog number	Description
Q330-396	Falcon cylinder, G keyway, 6 pin
Q330-397	Falcon cylinder, G keyway, 6 pin to 5 pin
Q630-310	Falcon cylinder, G keyway, 6 pin, K571
Q630-311	Falcon cylinder, G keyway, 6 pin to 5 pin, K571
Q330-391	Schlage cylinder, C keyway, 6 pin
Q630-306	Schlage cylinder, C keyway, 6 pin, K571

Note: Specify finish: 606 or 626



Conventional cylinder

### To order conventional cylinders in competitive keyways (6-pin)

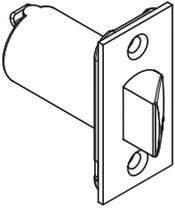
When specifying a competitive cylinder, reference How-to-order page for correct cylinder suffix and be sure to list brand plus keyway under the "Keyway" section and the correct part number below in the "Other Requirements" area of the part number order string.

Brand	Keyway	O-bit	KA	KD	Lock function
Corbin	60	Q330-166	-	Q330-166-KD	All except 751
Corbin Russwin	L4	Q330-158	-	Q330-158-KD	All except 751
Russwin	D1	Q330-210	-	Q330-210-KD	All except 751
Sargent	LA	Q330-160	-	Q330-160-KD	All except 751
Schlage	C	Q330-152	Q330-152-KA	Q330-152-KD	All except 751
Yale	8 (Para)	Q330-156	-	Q330-156-KD	All except 751

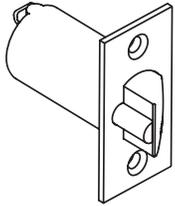
Note: Construction keying available. Reference page 9 for more information.

Options

# Latches



1/2" projection



1/2" projection

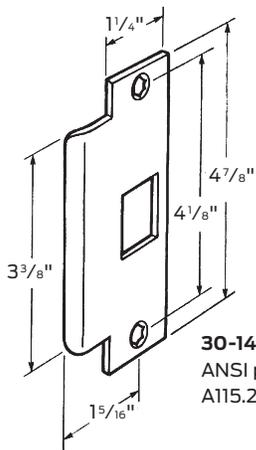
**Grade 1, UL listed**

	Specify	Backset	Function(s)	Description
Springlatch	30-271	2 3/8"	301	Square corner, 1 1/8" x 2 1/4"
	30-273	2 3/8"	301	Radius corner, 1 1/8" x 2 1/4"
	30-270	2 3/4"	301	Square corner, 1 1/8" x 2 1/4", standard
	30-272	2 3/4"	301	Radius corner, 1 1/8" x 2 1/4"
	30-267	2 3/8"	101	Square corner, 1 1/8" x 2 1/4", non-restoring
	30-269	2 3/8"	101	Radius corner, 1 1/8" x 2 1/4", non-restoring
	30-266	2 3/4"	101	Square corner, 1 1/8" x 2 1/4", non-restoring
	30-268	2 3/4"	101	Radius corner, 1 1/8" x 2 1/4", non-restoring
Deadlatch	30-386	2 3/8"	571	Square corner, 1 1/8" x 2 1/4"
	30-388	2 3/8"	571	Radius corner, 1 1/8" x 2 1/4"
	30-385	2 3/4"	571	Square corner, 1 1/8" x 2 1/4", standard
	30-387	2 3/4"	571	Radius corner, 1 1/8" x 2 1/4"
	30-301	2 3/8"	501, 511, 561, 581	Square corner, 1 1/8" x 2 1/4", non-restoring
	30-275	2 3/8"	501, 511, 561, 581	Radius corner, 1 1/8" x 2 1/4", non-restoring
	30-302	2 3/4"	501, 511, 561, 581	Square corner, 1 1/8" x 2 1/4", non-restoring
	30-274	2 3/4"	501, 511, 561, 581	Radius corner, 1 1/8" x 2 1/4", non-restoring

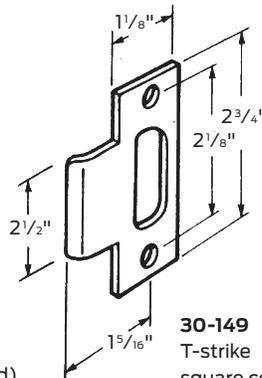
Note: Specify finish 613 or 626. All latches for K Series locks are UL listed and have a 1/2" bolt projection. They conform to both beveled and non-beveled doors.

# Strikes

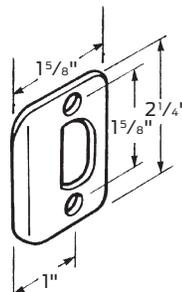
Locks furnished with a 1 1/4" x 4 7/8" ANSI Strike unless otherwise specified.



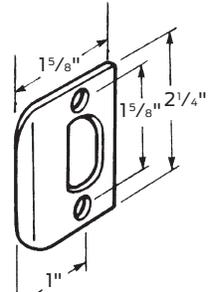
**30-148**  
ANSI prep  
A115.2 (standard)



**30-149**  
T-strike  
square corner



**30-150**  
Full lip, 1/4"  
radius corner



**30-151**  
Full lip,  
square corner

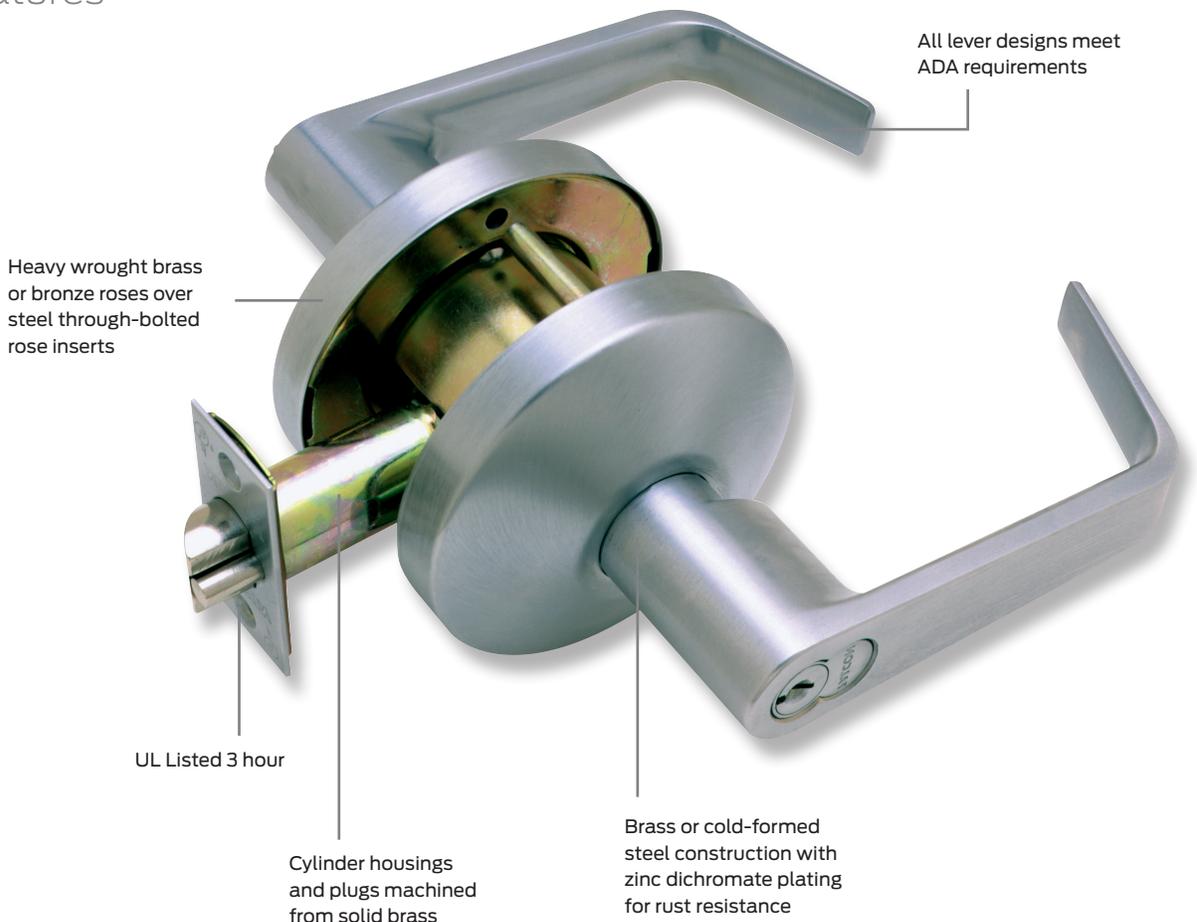
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# B Series

Grade 2, medium-duty cylindrical lever locks

When you need a tough, reliable lock at the right price point for a retail, industrial or multi-family project, you need a Falcon B Series lock. Our full line of Grade 2 locksets are a perfect replacement for existing locks, or a smart specification in new construction. With upgraded finishes, these locks deliver style as well as strength. Falcon B Series lock options include an interchangeable core that can be removed for quick, easy re-keying, and are compatible with SFIC products from other manufacturers. Most importantly, they're backed by one of the best names in the business.

## Features



## Specifications

# B Series

### Product specifications

**ANSI/BHMA:** Certified ANSI/BHMA A156.2, Series 4000, Grade 2.

**UL:** Listed for 3-hour fire door, A label.

**Functions:** 10 commercial functions available. See page 10 for details.

**Finishes:** 5 options available. See page 6 for finish color and comparative chart.

**Door thickness:** 1 <sup>3</sup>/<sub>8</sub>" to 2" standard. See price book for exceptions on communicating lock functions.

**Backset:** 2 <sup>3</sup>/<sub>4</sub>" standard. 2 <sup>3</sup>/<sub>8</sub>" and 5" also available (see price book).

**Mechanism:** Parts constructed of brass or cold formed steel, zinc plated and dichromated for rust resistance. Springs are stainless steel.

**Attachment:** Lock chassis secured to door by two screws which pass through a steel rose insert inside and thread directly into the outer rose mounting assembly.

**Handing:** Locks are non-handed.

**Cylinders:** Conventional cylinder, drilled with 6-pin chambers, pinned in 5 comes standard. Pinning in 6 chambers available (at no cost) when specified. Optional 7-pin conventional and 6- or 7-pin Small Format Interchangeable Core (SFIC) cylinders. Cylinder housings and plugs machined from solid brass. Springs are phosphor bronze. Two nickel silver keys furnished standard. See SFIC cylinder information on page 8 and B Series cylinder pages for additional options.

**Keyways:** "G" keyway standard on conventional cylinders. "A" keyway standard on SFIC cylinders. Additional options: Falcon, Schlage and many Best and Arrow keyways.

**Trim:** Roses are 3 <sup>1</sup>/<sub>2</sub>" diameter, heavy wrought brass or bronze, installed over steel rose inserts which are through-bolted through door. Levers are pressure cast zinc (solid levers no inserts) material finished to match mating parts.

**Latches:** <sup>1</sup>/<sub>2</sub>" bolt projection. UL (3-hour, A Label) listed. Latches have self-adjusting fronts to accommodate beveled or flat doors. 2 <sup>3</sup>/<sub>8</sub>" backset with 2 <sup>1</sup>/<sub>4</sub>" x 1" latchfaces, 2 <sup>3</sup>/<sub>4</sub>" backset with 2 <sup>1</sup>/<sub>4</sub>" x 1 <sup>1</sup>/<sub>8</sub>" latchfaces. Deadlocking latches have a solid round bar stock DL bar preventing latch jamming and/or lock outs.

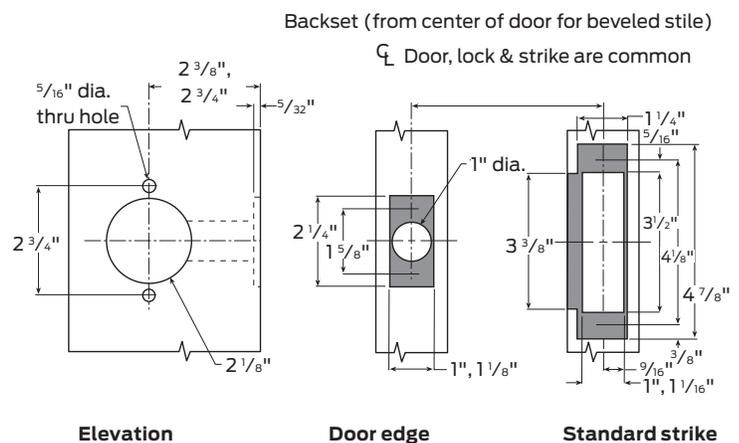
**Strikes:** 4 <sup>7</sup>/<sub>8</sub>" x 1 <sup>1</sup>/<sub>4</sub>" ANSI strike with curved lip to meet ANSI A115.2 door frame preparation standard.

**Screws:** Furnished with combination screws for use in wood or metal doors and frames.

### Architectural specifications

Key-in-lever cylindrical locksets shall be Falcon B Series or equal and meet the following requirements:

- All locks shall meet the ANSI/BHMA A156.2, Series 4000, Grade 2 test requirements for key-in-lever locksets.
- Locksets shall be UL Listed 3-hour, A Label.
- Lever trim shall have individual heavy-duty springs for lever return and to prevent lever sag. Trim shall be through-bolted with screws coated with thread sealant to provide strength and resistance to loosening.
- Roses shall be 3 <sup>1</sup>/<sub>2</sub>" diameter.
- All lever designs shall be solid (no inserts) and meet the federal ADA and state disability requirements.
- Locksets shall adjust to fit door thickness from 1 <sup>3</sup>/<sub>8</sub>" to 2".
- All locksets shall be non-handed and not require field disassembly for re-handing.
- Preparation for door must be non-handed.
- Acceptable manufacturer: Falcon lock



## Designs and styles

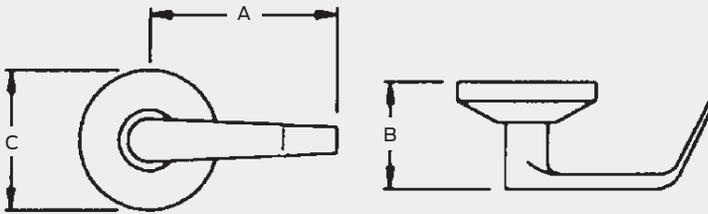
# Lever styles

Levers are solid pressure cast zinc, finished to match mating parts. Roses are wrought brass or bronze installed over steel, through-bolted rose inserts. Levers are secured by a spring-loaded retainer. Retainer in keyed lever cannot be depressed without key.

Dane (D)



Quantum (Q)



### Lever dimensions chart

Lever	A - width	B - projection	C - rose
Dane (D)	4 <sup>5</sup> / <sub>8</sub> "	2 <sup>5</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>2</sub> "
Quantum (Q)	4 <sup>5</sup> / <sub>8</sub> "	2 <sup>5</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>2</sub> "

Note: Return to door meets 1/2" requirement for Dane (D) and Quantum (Q) levers.

### Abrasive strip levers

All levers are available with an abrasive strip along the inside length of the lever to identify entrances that may be to areas hazardous to the handicapped. To order, preface the design code with a 6 (example: 6D for Dane). Not available on 613 finish as abrasive strip will not hold.

### Finishes

Available in BHMA 605, 606, 613, 625, and 626. See page 6 for finish color and comparative chart.

## Cylinders

# B Series cylinders

### Falcon Small Format Interchangeable Core (SFIC) cylinders

Falcon offers a wide selection of keyways in SFIC cylinder formats. Master keying is available and, in most cases, Falcon can even furnish cores master keyed into existing Best or Arrow key systems. See page 8 for details.

### Conventional cylinders (Falcon keyways)

Catalog number	Description	
A23155-02	5-pin	For use in all B Series except B611*
A23155-06	5-pin	For use in B611*
A23165-02	6-pin	For use in all B Series except B611*
A23165-06	6-pin	For use in B611*

Note: The "G" keyway is standard and will be supplied unless otherwise specified.  
Master keying is available for 2, 3, and 4 levels. Open keyways include E, H, K, L, and P.  
If ordering cylinders as parts, specify finish: 606, 622 or 626.



Conventional cylinder

### To order conventional cylinders in competitive keyways (6-pin)

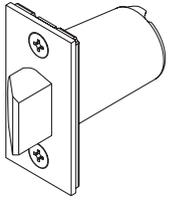
When specifying a competitive cylinder, reference How-to-order page for correct cylinder suffix and be sure to list brand plus keyway under the "Keyway" section and the correct part number below in the "Other Requirements" area of the part number order string.

Brand	Keyway	O-Bit	KA	KD	Lock function
Corbin	60	A23167-013	-	A23167-13D	All except 611
		A23167-011	-	A23167-11D	611
Corbin Russwin	L4	A23174-013	-	-	All except 611
		A23174-011	-	-	611
Russwin	D1	A23168-013	-	A23168-13D	All except 611
		A23168-011	-	A23168-11D	611
Sargent	LA	A23166-013	-	A23166-13D	All except 611
		A23166-011	-	A23166-11D	611
Schlage	C	A23160-013	A23160-13A	A23160-13D	All except 611
		A23160-011	A23160-11A	A23160-11D	611
	E	A23159-013	-	-	All except 611
		A23159-011	-	-	611
Yale	8 (Para)	A23169-013	-	A23169-13D	All except 611
		A23169-011	-	A23169-11D	611

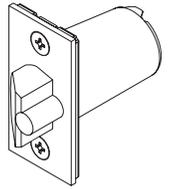
Note: Construction keying available. Reference page 9 for more information.

Options

# Latches



1/2" projection



1/2" projection

**Grade 1, UL listed**

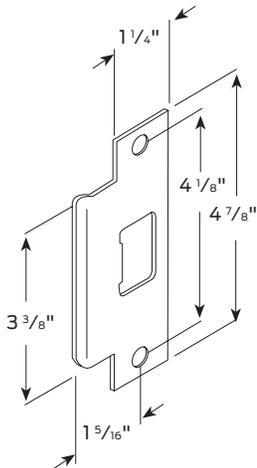
Specify	Backset	Function(s)	Description
57635	2 3/4"	301, 611	Square corner, 1 1/8" x 2 1/4", standard
57630	2 3/4"	301, 611	Square corner, 1" x 2 1/4"
57631	2 3/4"	301, 611	Radius corner (1/4"), 1" x 2 1/4"
57625	2 3/8"	301, 611	Square corner, 1 1/8" x 2 1/4"
57620	2 3/8"	301, 611	Square corner, 1" x 2 1/4"
57621	2 3/8"	301, 611	Radius corner (1/4"), 1" x 2 1/4"
57435	2 3/4"	All other	Square corner, 1 1/8" x 2 1/4"
57430	2 3/4"	All other	Square corner, 1" x 2 1/4"
57431	2 3/4"	All other	Radius corner (1/4"), 1" x 2 1/4"
57425	2 3/8"	All other	Square corner, 1 1/8" x 2 1/4"
57420	2 3/8"	All other	Square corner, 1" x 2 1/4"
57421	2 3/8"	All other	Radius corner (1/4"), 1" x 2 1/4"
A31727-005-00	5"	All functions	Backset extension link (use with 2 3/8" backset latches only)

Note: Specify finish - springlatches: 605, 613 or 630; deadlatches: 605, 612, 613 or 630. All latches for B Series locks are UL listed and have a 1/2" bolt projection.

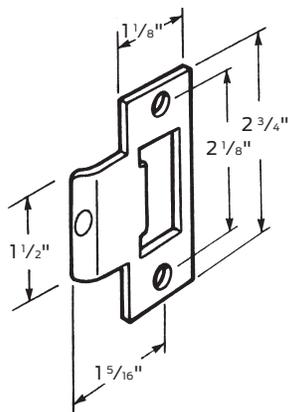
Springlatch or deadlatch

# Strikes

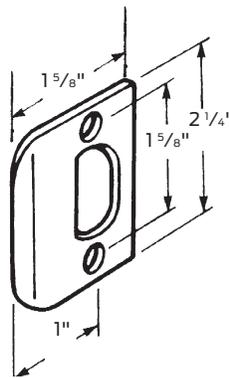
Locks furnished with a 1 1/4" x 4 7/8" ANSI Strike unless otherwise specified. Optional 1" deep ANSI steel dust box also available. Specify 005099-000-30.



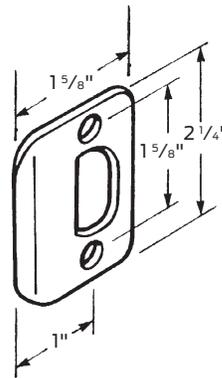
**5164**  
ANSI prep A115.2 (standard)<sup>1</sup>



**01-046**  
T-strike square corner



**01-049**  
Full lip, square corner



**01-048**  
Full lip, 1/4" radius corner

1. For ANSI prep with 7/8" lip length order 5161.

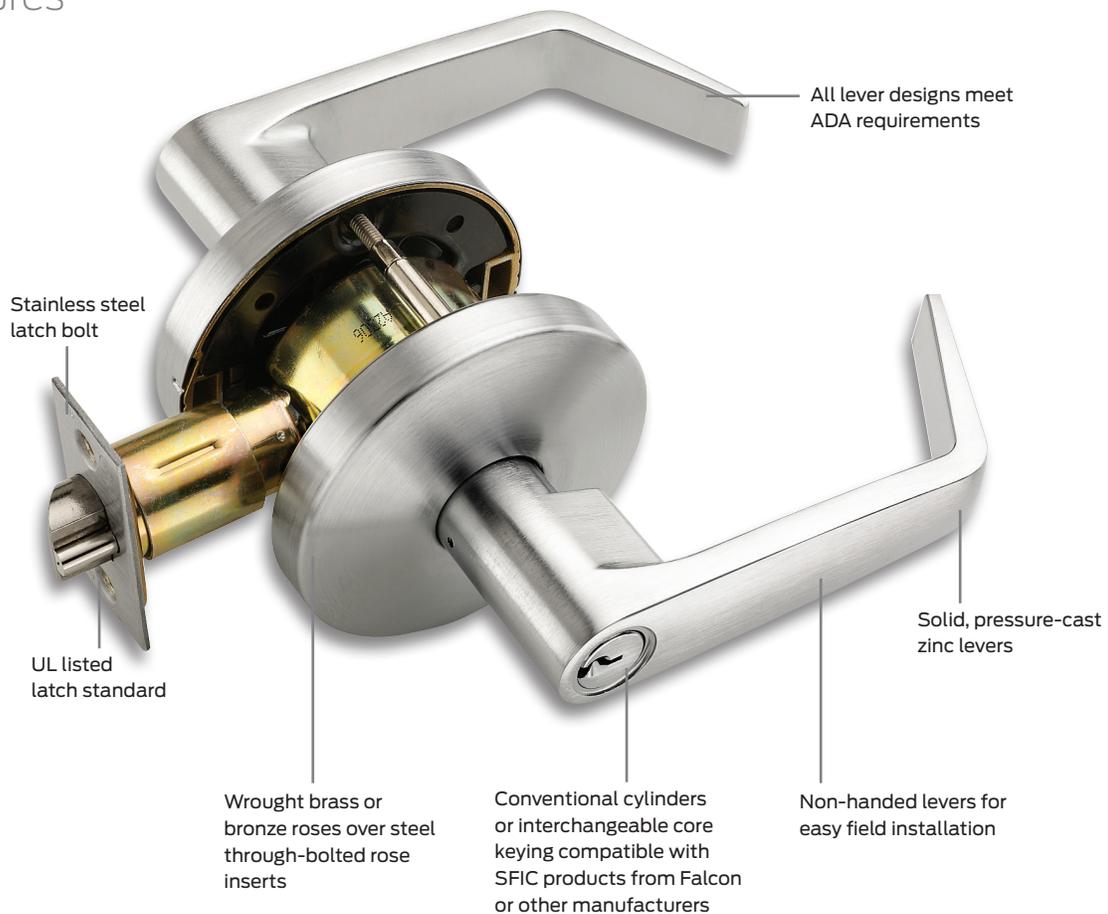
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# W Series

Grade 2, medium-duty cylindrical lever and knob locks

Designed to offer more functions and finish options than other grade 2 locks, W Series has what you need at the right price. With seven popular lever styles along with two knob styles and your choice of rose diameters (large and small), Falcon W Series can match most commercial door trim. The Falcon W Series locks feature conventional cylinders and small format interchangeable cores that are compatible with SFIC products from other manufacturers. Our conventional cylinders are available in all Falcon conventional key sections as well as Schlage C keyway, which we now masterkey across the complete Falcon product line. The Falcon W Series offers quality product at a value price, and is backed by one of the best names in the business - Allegion.

## Features



## Specifications

# W Series

### Product specifications

**ANSI/BHMA:** Certified ANSI/BHMA A156.2, Series 4000, Grade 2.

**UL:** Listed for 3-hour fire door, A label.

**Functions:** 11 commercial functions available. See page 10 for details.

**Rose size:** Standard rose diameter  $3\frac{3}{8}$ ". Small rose diameter  $2\frac{9}{16}$ ".

**Finishes:** 8 options available. See page 6 for finish color and comparative chart.

**Door thickness:**  $1\frac{3}{8}$ " to  $1\frac{3}{4}$ " standard.

**Backset:** Standard rose -  $2\frac{3}{4}$ " backset; Small rose -  $2\frac{3}{8}$ " backset.

**Mechanism:** Parts constructed of brass or cold-formed steel, zinc plated and dichromated for rust resistance. Springs are stainless steel.

**Attachment:** Lock chassis secured to door by two screws which pass through a steel rose insert inside and thread directly into the outer rose-mounting assembly, and two screws that screw into the chassis assembly.

**Handing:** Locks are non-handed.

**Cylinder:** Conventional cylinder, drilled with 6-pin chambers, pinned in 5 comes standard. Pinning in 6 chambers available (at no cost) when specified. Optional 7-pin conventional and 6- or 7-pin Small Format Interchangeable Core (SFIC) cylinders. Cylinder housings and plugs machined from solid brass. Springs are phosphor bronze. Two nickel silver keys furnished standard. See SFIC cylinder information on page 8 and W Series cylinder pages for additional options.

**Keyways:** "G" keyway standard on conventional cylinders. "A" keyway standard on SFIC cylinders. Additional options: Falcon, Schlage and many Best and Arrow keyways.

**Trim:** Roses are heavy wrought brass or bronze, installed over steel rose inserts which are through-bolted. Levers are pressure-cast zinc (solid levers-no-inserts) finished to match mating parts.

**Latches:**  $\frac{1}{2}$ " bolt projection made of stainless steel and UL listed for 3-hour door assemblies. Latches have self-adjusting fronts to accommodate beveled or flat doors. Standard rose:  $2\frac{3}{8}$ " backset with  $1$ " x  $2\frac{1}{4}$ " latch face or  $2\frac{3}{4}$ " backset with  $1\frac{1}{8}$ " x  $2\frac{1}{4}$ " latch face. Small rose:  $2\frac{3}{4}$ " backset with  $1\frac{1}{8}$ " x  $2\frac{1}{4}$ " latch face.

**Strikes:**  $4\frac{7}{8}$ " x  $1\frac{1}{4}$ " ANSI strike with curved lip to meet ANSI A115.2 door frame preparation standard. Consult Options and Accessories section for other available strikes, sizes and configurations.

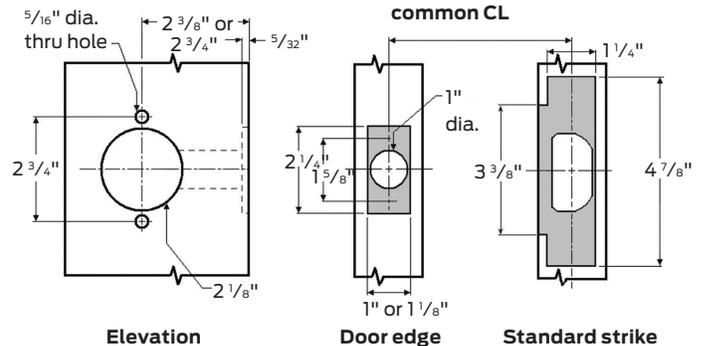
**Screws:** Furnished with combination screws for use in wood or metal doors and frames.

### Architectural specifications

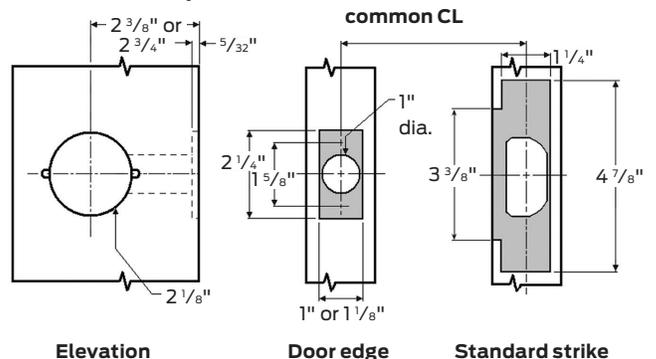
Key-in-lever cylindrical locksets shall be Falcon W Series or equal and meet the following requirements:

- All locks shall meet ANSI/BHMA A156.2, Series 4000, Grade 2 test requirements for key-in-lever locksets
- Locksets shall be UL Listed 3-hour, A Label
- Lever trim shall have individual, heavy-duty springs for lever return and to prevent lever sag; trim shall be through-bolted
- All lever designs shall be solid (no inserts) and meet the federal ADA and state disability requirements
- Locksets shall adjust to fit door thickness from  $1\frac{3}{8}$ " to  $1\frac{3}{4}$ "
- All locksets shall be non-handed and not require field disassembly for re-handing
- Preparation for door must be non-handed (Acceptable manufacturer: Falcon lock)

#### Standard rose template



#### Small rose template

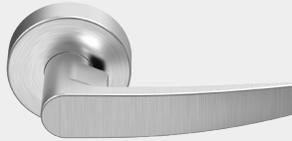


## Designs and styles

# Levers styles

Levers are solid pressure cast zinc, finished to match mating parts. Roses are wrought brass or bronze installed over steel through-bolted rose inserts. A spring-loaded retainer secures levers. Secure side retainer cannot be depressed without a key that operates the lock.

Avalon (A)



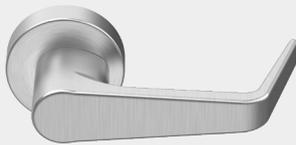
Boardwalk (BRK)



Broadway (BRW)



Dane (D)



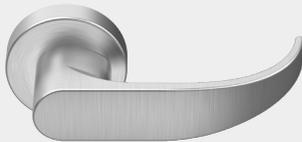
Latitude (LAT)



Longitude (LON)



Quantum (Q)

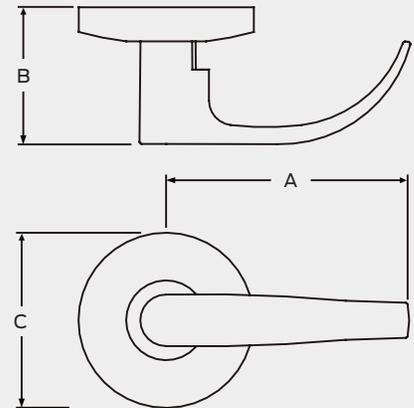
Standard rose  
Dane lever  
shownSmall rose  
Dane lever  
shown

### Lever dimensions chart

Lever	A - width	B - projection	C - rose	
			Standard	Small (SR)
Avalon (A)	4 1/2"	2 1/2"	3 3/8"	2 9/16"
Boardwalk (BRK)	5"	2 1/2"	3 3/8"	2 9/16"
Broadway (BRW)	4 1/2"	2 1/2"	3 3/8"	2 9/16"
Dane (D)	4 5/8"	2 1/2"	3 3/8"	2 9/16"
Latitude (LAT)	4 1/2"	2 3/8"	3 3/8"	2 9/16"
Longitude (LON)	5"	2 3/8"	3 3/8"	2 9/16"
Quantum (Q)	4 5/8"	2 3/8"	3 3/8"	2 9/16"

Note: Return to door meets 1/2" requirement for Dane (D), Quantum (Q), Boardwalk (BRK) and Longitude (LON) levers.

Specify lever only if standard rose is desired. When ordering small rose you must specify both rose and lever. Example: Small rose-Avalon specify as SRA; Small rose-Latitude specify as SRLA; Small rose-Quantum specify as SRQ.



### Abrasive strip levers

Dane, and Quantum levers are available with an abrasive strip along the inside length of the lever to identify entrances that may be to areas hazardous to the handicapped. To order, preface the design code with a 6 (example: 6D for Dane). Not available on 613 finish as abrasive strip will not hold.

Designs and styles

# Knob styles

Knobs are constructed of brass or cold-formed steel and are zinc-plated and dichromated for rust resistance. Springs are stainless steel. Roses are heavy-wrought brass or bronze, installed over wrought steel reinforcing plates. Knobs are brass or bronze, secured by a steel knob retainer, which cannot be depressed when lock has been locked.

Cointurn  
Elite shown



Cylinder  
Elite shown



Interchangeable core  
Elite shown



Plain  
Hana shown



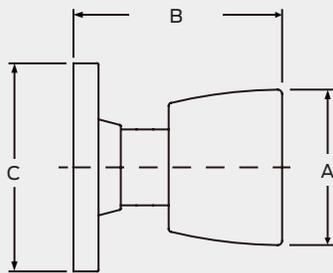
Pushbutton (interior)  
Hana shown



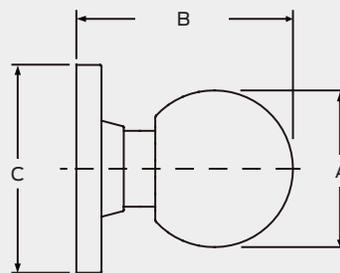
Thumbturn (interior)  
Hana shown



Elite



Hana



**Knob dimensions chart**

Knob	A - width	B - projection	C - rose
			Standard
Elite (E)	2 1/8"	2 15/32"	3 3/8"
Hana (H)	2 3/16"	2 9/16"	3 3/8"

**Finishes**

Levers: Available in BHMA 605, 606, 613, 619, 622, 625, 626 and 643e.

Knobs: Available in BHMA 605, 606, 613, 625, and 626. See page 6 for finish color and comparative chart.

## Cylinders

## W Series cylinders

**Falcon Small Format Interchangeable Core (SFIC) cylinders**

Falcon offers a wide selection of keyways in SFIC cylinder formats. Master keying is available and, in most cases, Falcon can even furnish cores master keyed into existing Best or Arrow key systems. See page 8 for details.

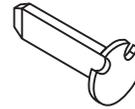
**Conventional cylinders (Falcon keyways)**

Catalog number	Description
Q330-154	Falcon (specify keyway)

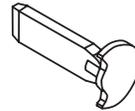
Note: The "G" keyway is standard and will be supplied unless otherwise specified. Master keying is available for 2, 3, and 4 levels. Open keyways include E, H, K, L, and P. If ordering cylinders as parts, specify finish: 606, 622 or 626.



Conventional cylinder



**Q330-164**  
Conventional cylinder tailpiece (all other functions)



**Q330-165**  
Conventional cylinder tailpiece (W561 function)

**To order conventional cylinders in competitive keyways (6-pin)**

When specifying a competitive cylinder, reference How-to-order page for correct cylinder suffix and be sure to list brand plus keyway under the "Keyway" section and the correct part number below in the "Other Requirements" area of the part number order string.

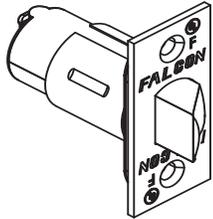
Brand	Keyway	O-Bit	KA	KD	Lock function
Corbin	60	Q330-166	-	Q330-166-KD	All except 561
		Q330-167	-	Q330-167-KD	561
Corbin Russwin	L4	Q330-158	-	Q330-158-KD	All except 561
		Q330-159	-	Q330-159-KD	561
Russwin	D1	Q330-210	-	Q330-210-KD	All except 561
		Q330-211	-	Q330-211-KD	561
Sargent	LA	Q330-160	-	Q330-160-KD	All except 561
		Q330-161	-	Q330-161-KD	561
Schlage	C	Q330-152	Q330-152-KA	Q330-152-KD	All except 561
		Q330-153	Q330-153-KA	Q330-153-KD	561
Yale	8 (Para)	Q330-156	-	Q330-156-KD	All functions

Note: Construction keying available. Reference page 9 for more information.

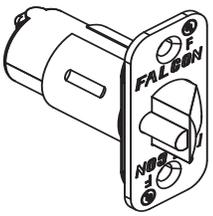
Options

# Latches

## Grade 1, UL listed



1/2" projection



1/2" projection

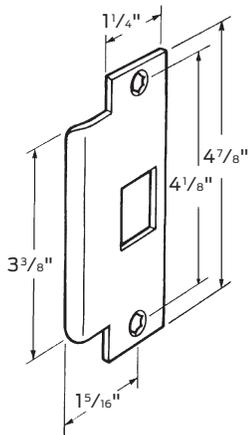
	Specify	Backset	Function(s)	Description
Springlatch	30-206 <sup>1</sup>	2 3/4"	101, 301	Square corner, 1 1/8" x 2 1/4", standard
	30-204	2 3/4"	101, 301	Square corner, 1" x 2 1/4"
	30-205	2 3/4"	101, 301	Radius corner, 1" x 2 1/4"
	30-209 <sup>1</sup>	2 3/8"	101, 301	Square corner, 1 1/8" x 2 1/4"
	30-207	2 3/8"	101, 301	Square corner, 1" x 2 1/4"
	30-208	2 3/8"	101, 301	Radius corner, 1" x 2 1/4"
Deadlatch	30-194	2 3/4"	201, 511, 571, 711	Square corner, 1 1/8" x 2 1/4"
	30-192	2 3/4"	201, 511, 571, 711	Square corner, 1" x 2 1/4"
	30-193	2 3/4"	201, 511, 571, 711	Radius corner, 1" x 2 1/4"
	30-200 <sup>1</sup>	2 3/8"	201, 511, 571, 711	Square corner, 1 1/8" x 2 1/4"
	30-198	2 3/8"	201, 511, 571, 711	Square corner, 1" x 2 1/4"
	30-199	2 3/8"	201, 511, 571, 711	Radius corner, 1" x 2 1/4"
	30-197 <sup>1</sup>	2 3/4"	161, 501, 511, 561, 581	Square corner, 1 1/8" x 2 1/4", non-restoring, standard
	30-195	2 3/4"	161, 501, 511, 561, 581	Square corner, 1" x 2 1/4, non-restoring
	30-196	2 3/4"	161, 501, 511, 561, 581	Radius corner, 1" x 2 1/4, non-restoring
	30-203 <sup>1</sup>	2 3/8"	161, 501, 511, 561, 581	Square corner, 1 1/8" x 2 1/4", non-restoring
	30-201	2 3/8"	161, 501, 511, 561, 581	Square corner, 1" x 2 1/4, non-restoring
	30-202	2 3/8"	161, 501, 511, 561, 581	Radius corner, 1" x 2 1/4, non-restoring

1. Available with small rose.

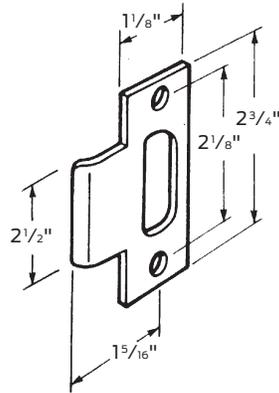
Note: Specify finish 605, 606, 613, 619, 622, 625, 626, or 643e. All latches for W Series locks are UL listed and have a 1/2" bolt projection.

# Strikes

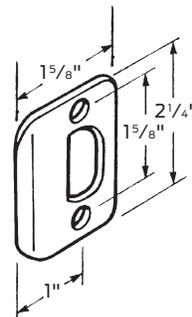
Locks furnished with a 4 7/8" ANSI Strike unless otherwise specified.



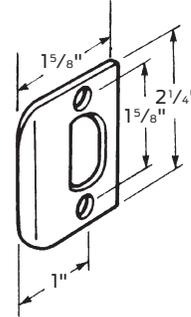
**30-148**  
ANSI prep A115.2  
(standard)



**30-149**  
T-strike square corner



**30-150**  
Full lip, 1/4" radius corner



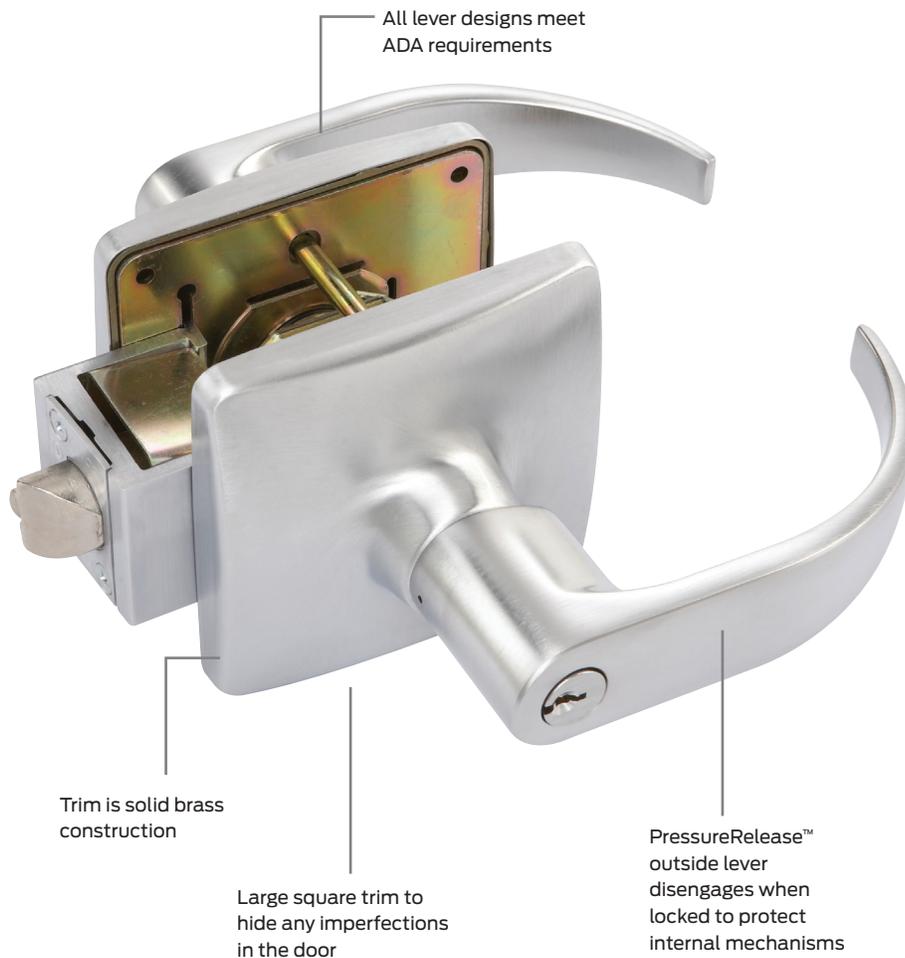
**30-151**  
Full lip, square corner

# RU Series

Extra heavy-duty preassembled unit locks

When you need to replace an existing notched-style lock and get up to code on ADA accessibility, the Falcon RU Series is a perfect fit. Designed specifically for retrofitting older and historical buildings, this unique lock combines old-fashioned styling with modern strength, security and convenience. It can retrofit existing unit locks manufactured by Falcon, Corbin Russwin and Yale, and installs with minimal rework to existing doors.

## Features



RU Series lock is also available electrified for use in a wired access control system or as an independently controlled lock with a remote access switch.

## Specifications

# RU Series

### Features

- Vandal resistant PressureRelease™ outside lever disengages when locked to prevent damage to internal mechanism
- 2 lever designs
- Complements Falcon's "family" of lever designs
- "Power Spring™" in rose trim prevents lever sag
- 12 commercial lock functions
- 2 standard finishes: 613 and 626
- No exposed mounting screws
- Solid bar stock deadlocking feature prevents latch binding and lock failure due to poor door alignment
- Meets or exceeds all ANSI A156.2 rigorous Grade 1 specifications for key-in-lever products

### Benefits

- Preserves existing facility doors and frames
- Preserves original architectural design without adapter plate or add-ons
- Easy installation with minimal door modifications
- Features a 4" square rose which covers existing mounting holes, most paint lines and required door rework
- Complies with ADA easy access requirements
- Strikes available to match existing frame preparation
- Reuse existing facility cylinders and key system
- Non-handed chassis and field reversible trim and latch bolt for easy stocking and lower inventory cost
- Key removable outside lever for easy cylinder replacement
- Outside lever secured by a spring-loaded retainer. Retainer cannot be depressed when locks have been locked. Inside lever secured by a set screw. Levers have heavy-duty steel individual return springs in order to prevent lever sag

### Product specifications

**ANSI/BHMA:** ANSI/BHMA: Certified ANSI/BHMA A156.2, Series 4000, Grade 1.

**UL:** Listed for 3-hour fire door, A label.

**Functions:** 10 mechanical and 2 electrified (24 VDC .185 Amp) commercial functions available. See page 10 for details.

**Finishes:** 2 options available. See page 6 for finish color and comparative chart.

**Door thickness:** 1<sup>3</sup>/<sub>4</sub>" to 2<sup>1</sup>/<sub>8</sub>" standard.

**Backset:** 2<sup>3</sup>/<sub>4</sub>" only.

**Attachment:** Installs with 10-32 through-bolt screws with thread sealant for extra security and resistance to vibrating loose. Interchangeable core levers are not removable with core installed.

**Handing:** Locks are non-handed.

**Cylinder:** Conventional cylinder, drilled with 6-pin chambers, pinned in 5 comes standard. Pinning in 6 chambers available (at no cost) when specified. Optional 7-pin conventional and 6- or 7-pin Small Format Interchangeable Core (SFIC) cylinders. Cylinder housings and plugs machined from solid brass. Springs are phosphor bronze. Two nickel silver keys furnished standard. See SFIC cylinder information on page 8 and RU Series cylinder pages for additional options.

**Keyways:** "G" keyway standard in conventional cylinders. "A" keyway standard in SFIC cylinders. Additional options: Falcon, Schlage and many Best and Arrow keyways.

**Strike:** 4 <sup>7</sup>/<sub>8</sub>" x 1 <sup>1</sup>/<sub>4</sub>" ANSI strike with curved lip to meet ANSI A115.2 door frame preparation standard.

## Designs and styles

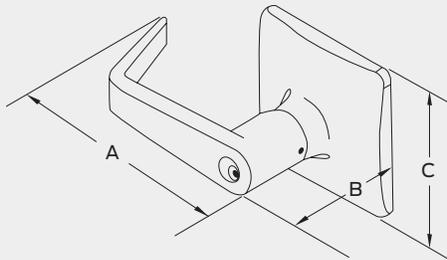
# Lever styles

Levers are solid pressure cast zinc, finished to match mating parts. Roses are wrought brass or bronze, and are installed over pressure cast through-bolted rose inserts. Levers are secured by a spring-loaded retainer. Retainer cannot be depressed when locks have been locked.

Dane (D)



Quantum (Q)



### Lever dimensions chart

Lever	A - width	B - projection	C - rose
Dane (D)	5"	3 1/4"	4"
Quantum (Q)	5"	3 1/4"	4"

Note: Return to door meets 1/2" requirement for Dane (D) and Quantum (Q) levers.

### Abrasive strip levers

Levers are available with an abrasive strip along the inside length of the lever to identify entrances that may be to areas hazardous to the handicapped. To order, preface the design code with a 6 (example: 6D for Dane). Not available on 613 finish as abrasive strip will not hold.

### Finishes

Available in BHMA 613 (Dane lever style only) and 626. See page 6 for finish color and comparative chart.

## Cylinders

# RU Series cylinders

### Falcon Small Format Interchangeable Core (SFIC) cylinders

Falcon offers a wide selection of keyways in SFIC cylinder formats. Master keying is available and, in most cases, Falcon can even furnish cores master keyed into existing Best or Arrow key systems. See page 8 for details.

### To order conventional cylinders in competitive keyways (6-pin)

When specifying a competitive cylinder, reference How-to-order page for correct cylinder suffix and be sure to list brand plus keyway under the "Keyway" section and the correct part number below in the "Other Requirements" area of the part number order string.

Brand	Keyway	O-Bit	KA	KD	Lock function
Arrow		A23170-000	A23170-0KA	A23170-0KD	All except 571 and 381(I/S)
		A23170-011	A23170-11A	A23170-11D	381(I/S)
		A23170-012	A23170-12A	A23170-12D	571
Corbin	60	A23167-000	-	A23167-0KD	All except 571 and 381(I/S)
		A23167-011	-	A23167-11D	381(I/S)
		A23167-012	-	A23167-12D	571
Corbin Russwin	L4	A23174-000	-	-	All except 571 and 381(I/S)
		A23174-011	-	-	381(I/S)
		A23174-012	-	-	571
Russwin	D1	A23168-000	-	A23168-0KD	All except 571 and 381(I/S)
		A23168-011	-	A23168-11D	381(I/S)
		A23168-012	-	A23168-12D	571
Sargent	LA	A23166-000	-	A23166-0KD	All except 571 and 381(I/S)
		A23166-011	-	A23166-11D	381(I/S)
		A23166-012	-	A23166-12D	571
Schlage	C	A23160-000	A23160-0KA	A23160-0KD	All except 571 and 381(I/S)
		A23160-011	A23160-11A	A23160-11D	381(I/S)
		A23160-012	A23160-12A	A23160-12D	571
	E	A23159-000	-	-	All except 571 and 381(I/S)
		A23159-011	-	-	381(I/S)
		A23159-012	-	-	571
Yale	8 (Para)	A23169-000	-	A23169-0KD	All except 571 and 381(I/S)
		A23169-011	-	A23169-11D	381(I/S)
		A23169-012	-	A23169-12D	571
	GA	A23158-000	-	-	All except 571 and 381(I/S)
		A23158-011	-	-	381(I/S)
		A23158-012	-	-	571

### Reference chart for locks ordered less cylinder

Falcon offers many "less cylinder" options for when you need a quality lock to fit into an existing key system. For levers prepared to fit competitive key systems, please reference the list below. A proper tailpiece is supplied with the lock unless otherwise noted.

Conventional cylinders	Full Size IC	Unit/Mono locks
Assa 65611 and 65661, 6-pin <sup>1</sup>	Assa 70600IC and V70600IC, 6-pin	Corbin Russwin, 2000-052 (master ring not available)
Corbin Russwin 2000-034 and CL3400, 6-pin (master ring not available) <sup>1</sup>	Corbin Russwin 8000, 6-pin and 8000-7, 7-pin	Falcon conventional, 6-pin (R Series old small plug)
Medeco 20W200V3, 6-pin (Falcon/Schlage style) <sup>1</sup>	Medeco 31 Series, 6-pin and 32 Series, 7-pin	Medeco 20W5005 retrofit cylinder for Corbin Russwin unit lock
Peaks (Kaba), 6-pin <sup>1</sup>	Peaks (Kaba), 6- and 7-pin	Medeco 20W0500 retrofit cylinder for Yale 6200 unit lock
Sargent 6, 7, and 10 Line, 6-pin (Keso not available)	Sargent 6300, 6-pin	Yale 1801 mono lock and later models
Schlage Classic and Primus, 6-pin <sup>1</sup>	Schlage Classic and Primus, 6-pin	
Yale 1810, 6-pin (Bicentric not available)	Yale 1210, 6-pin	

1. Tailpiece not supplied.

## Options

## Latches

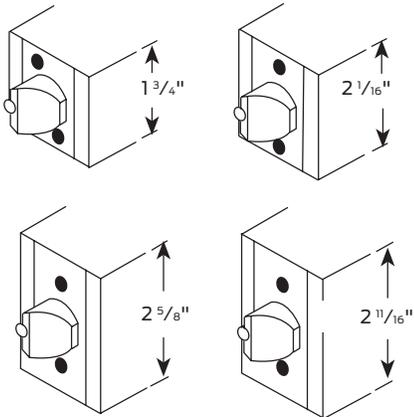
Options for configured locks.

**Grade 1, UL listed is standard for all 1/2" projection latchbolts and optional for 3/4"**

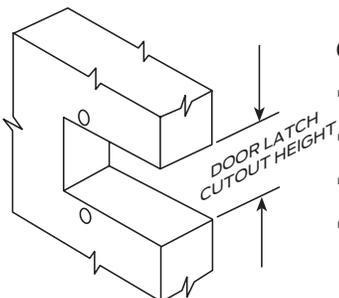
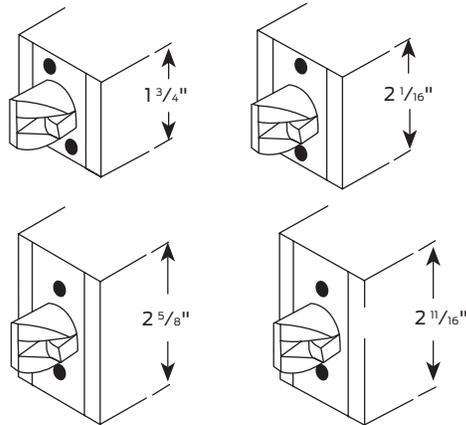
	Specify	Backset	Latch height	Door thickness
Springlatch or deadlatch 1/2" projection	314691	2 3/4"	1 3/4"	1 3/4", standard
	314692	2 3/4"	2 1/16"	1 3/4"
	314693	2 3/4"	2 5/8"	1 3/4"
	314694	2 3/4"	2 11/16"	1 3/4"
Deadlatch 3/4" projection	315691	2 3/4"	1 3/4"	1 3/4"
	315692	2 3/4"	2 1/16"	1 3/4"
	315693	2 3/4"	2 5/8"	1 3/4"
	315694	2 3/4"	2 11/16"	1 3/4"
Springlatch 1/2" projection	316231	2 3/4"	1 3/4"	2", standard
	316232	2 3/4"	2 1/16"	2"
	316233	2 3/4"	2 5/8"	2"
	316234	2 3/4"	2 11/16"	2"
	316241	2 3/4"	1 3/4"	2 1/4", standard
	316242	2 3/4"	2 1/16"	2 1/4"
	316243	2 3/4"	2 5/8"	2 1/4"
	316244	2 3/4"	2 11/16"	2 1/4"

Note: Specify finish 613 or 626 and door thickness. Also note latch height in the "Other requirements" area of the part number order string.

## 1/2" projection, standard, UL listed



## 3/4" projection, optional, UL listed



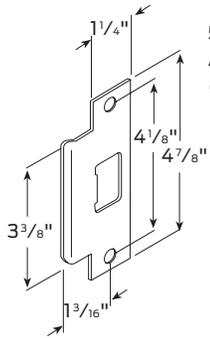
## Competitive lock cutout heights

- 1 3/4" most Corbin & Russwin sold 1949 through current; Yale 6300
- 2 1/16" Corbin, Falcon
- 2 5/8" Corbin (O)2400 Series sold 1913-1953
- 2 11/16" Russwin 2100 and 2800 Series sold 1904-1968

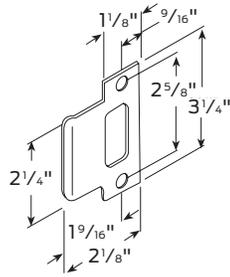
Options and accessories

# Strikes

Locks furnished with a 1 1/4" x 4 7/8" ANSI strike unless otherwise specified.  
 Optional dustboxes: 1" deep ANSI steel dust box specify 005099-000-30.  
 3/4" deep dust box for 3 1/4" high strike specify 031453-000-30.

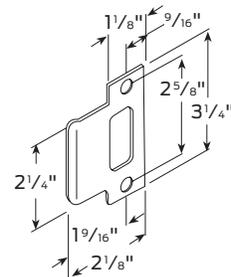


**5164\***  
ANSI Prep A115.2  
(standard)



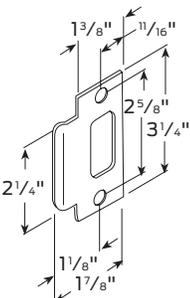
**31471\***  
Early Corbin Russwin  
single door

Note: Strike, door and lock same center line

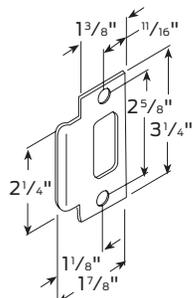


**31471S\***  
Early Corbin Russwin  
single door

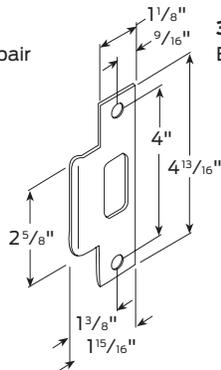
Note: Strike center line is not the same as door and lock



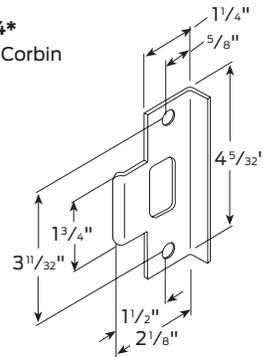
**31472\***  
Early Corbin  
Russwin pair  
of doors



**31473\***  
Yale mono pair  
of doors



**31474\***  
Early Corbin



**31477\***  
Early Russwin  
unit lock

\* Specify finish: 613, 626 or 630.

# MA Series

Grade 1 mortise lever  
and knob locks

The Falcon MA Series delivers the heavy-duty performance of a Grade 1 mortise lock at an affordable price for your office, hospital, education, or other commercial project. MA, as one of Falcon's toughest and most dependable locks, is designed to handle high-traffic, high-abuse applications. And, with generous trim and finish styles, the MA Series makes it easy to match existing or new design choices. Cylinders offered include the Small Format Interchangeable Core cylinders that can be removed quickly for easy, fast re-keying in high turnover environments.

## Features



\*Excludes MA551

## Specifications

# MA Series

### Product specifications

**ANSI/BHMA:** Certified ANSI/BHMA 156.13, Series 1000, Grade 1.

**UL:** Listed 3-hour fire door, A label.

**Functions:** 26 mechanical and 2 electrified (12 or 24 VDC) commercial functions available. See page 46 for details.

**Finishes:** 9 options available. See page 6 for finish color and comparative chart.

**Door thickness:** Standard offering only accepts door thicknesses of 1<sup>3</sup>/<sub>4</sub>" - 1<sup>7</sup>/<sub>8</sub>". If door thickness is between 1<sup>7</sup>/<sub>8</sub>" and 2<sup>1</sup>/<sub>2</sub>" customer must specify thickness.

**Backset:** 2<sup>3</sup>/<sub>4</sub>" only.

**Case:** Cold formed steel, zinc dichromate plated, .090" thick. Optional lead wrapping available.

**Hubs:** Hardened steel.

**Handing:** Right hand is standard; left hand optional. Reversible in the field.

**Cylinders:** Conventional cylinder, drilled with 6-pin chambers, pinned in 5 comes standard. Pinning in 6 chambers available (at no cost) when specified. Optional 7-pin conventional and 6- or 7-pin Small Format Interchangeable Core (SFIC) cylinders. Mortise and cylinder housings and plugs machined from solid brass. Springs are phosphor bronze. Two nickel silver keys furnished standard. Hotel function cylinders available. For details, see price book. SFIC cylinder information on page 8.

**Keyways:** "G" keyway standard on conventional cylinders. "A" keyway standard on SFIC cylinders. Additional options: Falcon, Schlage and many Best and Arrow keyways.

**Bind resistant trim:** Heavy-duty through-bolted inserts clamp the trim on the door assuring proper alignment. Provided with 8-32 screws for strength and thread sealant to prevent loosening.

**Latch bolt:** Two-piece stainless steel, mechanical anti-friction bolt. <sup>3</sup>/<sub>4</sub>" projection.

**Dead bolt:** 1" throw, stainless steel with two <sup>3</sup>/<sub>16</sub>" diameter hardened steel, free-turning, saw-resistant roller.

**Faceplates:** (armored front) 1<sup>1</sup>/<sub>4</sub>" x 8" brass or stainless steel adjustable for door bevel. Reinforced by heavy gauge steel with stabilizing ribs.

**Strike:** Brass or stainless steel. Meets ANSI A115.1 for frame preparation. Strike is non-handed.

**Indicator options:** Occupied/Vacant or Locked/Unlocked.

### Architectural specifications

- Provide mortise locksets that comply with ANSI A156.13, Series 1000, Operational Grade 1 and Security Grade 1 with all standard trims and conventional mortise cylinders.
- Locksets comply with UL10B - neutral pressure and UL10C/UBC 7-2 –positive pressure testing requirements. All locks shall be UL listed for 3 hour fire door.
- Lock case shall be non-handed, reversible without opening the lock case, and shall be manufactured of zinc dichromate plated steel. Lock case shall be interchangeable for knob or lever applications without modifying the chassis, and shall be constructed with a screw configuration that limits access to operating parts.
- Latchbolt shall be 2-piece anti-friction type manufactured from stainless steel, with a standard 2<sup>3</sup>/<sub>4</sub>" backset, a full <sup>3</sup>/<sub>4</sub>" throw and be field reversible. Deadbolt shall have 1" throw and shall be constructed of stainless steel, incorporating two <sup>3</sup>/<sub>16</sub>" diameter security roller pins. All lever designs shall meet the federal ADA and state disability requirements.
- All trim shall be cast, forged, or wrought and through bolted with thread patch coated screws. Lever trim to have individual heavy duty springs for lever return, and independent rotation in both directions. Return to door style levers meets the <sup>1</sup>/<sub>2</sub>" California State Fire Marshall requirement.
- Spindles to be independent, designed to 'break-away' at a maximum of 480 in./lbs. to prevent damage to the lock chassis.
- Provide standard non-handed curved lip strikes.
- Cylinders to be secured by a dual retainer.
- Acceptable manufacturer: Falcon Lock

## Designs and styles

# Lever/knob styles

Cast or forged levers (Avalon, Dane, Quantum, Boardwalk, Broadway, Latitude and Longitude) and wrought brass or stainless levers/knobs (Sutro and Hana), wrought rose and forged or wrought escutcheons are standard. Specify lever/knob style and rose/escutcheon style when ordering.

Avalon (AG/AN)



Boardwalk<sup>1</sup> (BOG/BON)



Broadway<sup>1</sup> (BRG/BRN)



Dane (DG/DN)



Latitude<sup>1</sup> (LTG/LTN)



Longitude<sup>1</sup> (LGG/LGN)



Quantum (QG/QN)



Sutro<sup>2</sup> (SG/SN)



Hana (HG/HN)



1. 630 finish not available with these lever designs.
2. Sutro lever not available in 619, 622 or 643e finishes.

### Abrasive strip levers

Avalon, Dane, Quantum, and Sutro levers are available with an abrasive strip along the inside length of the lever to identify entrances that may be to areas hazardous to the handicapped. To order, preface the design code with a 6 (example: 6DG for Dane Gala). Not available on 613 finish as abrasive strip will not hold. Knurling option is also available for these same levers using an 8 prefix.

### Finishes

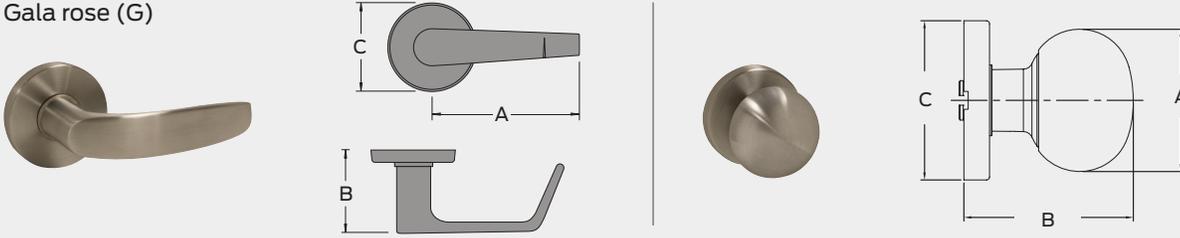
**Levers:** available in BHMA 605, 606, 613, 619, 622, 625, 626, 630, and 643e.

**Knobs:** available in BHMA 619, 622, and 643e. See page 6 for finish color and comparative chart.

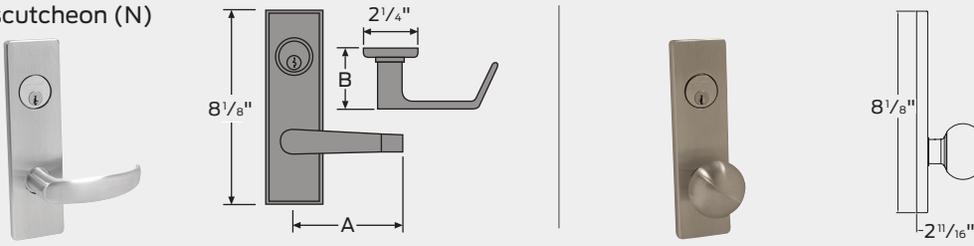
**Mortise and rim cylinder housings:** available in 605, 606, 613, 619, 622, 626, 629, 630, and 643e.

# Trim styles

Gala rose (G)



Napa escutcheon (N)



## Lever dimensions chart

Lever	A - width	B - projection	C - rose		Escutcheon
			Gala (G)	Napa (N)	
Avalon (A)	4 1/2"	2 5/8"	2 9/16"		8 1/8"H x 2 1/4"W
Boardwalk (BO)	5 1/16"	2 3/4"	2 9/16"		
Broadway (BR)	5 1/16"	2 3/4"	2 9/16"		
Dane (D)	4 9/16"	2 1/2"	2 9/16"		
Latitude (LT)	4 13/16"	2 11/16"	2 9/16"		
Longitude (LG)	4 13/16"	2 11/16"	2 9/16"		
Quantum (Q)	4 5/8"	2 11/16"	2 9/16"		
Sutro (S)	4 7/8"	2 7/8"	2 9/16"		

Note: Return to door meets 1/2" requirement for Dane, Quantum, Boardwalk and Longitude and Sutro levers.  
Specify both lever and rose or escutcheon when ordering. Example: Avalon-Gala specify as AG; Latitude-Napa specify as LTN; Sutro-Gala specify as SG.

## Knob dimensions chart

Knob	A - width	B - projection	C - rose		Escutcheon
			Gala (G)	Napa (N)	
Hana (H)	2 1/4"	2 11/16"	2 9/16"		8 1/8"H x 2 1/4"W

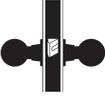
Note: Specify both knob and rose or escutcheon when ordering.  
Example: Hana-Gala specify as HG; Hana-Napa specify as HN.

## Functions

To order Falcon MA Series locksets, please consult page 7 for ordering information and assistance.

 Indicates interchangeable core available.

 Indicates indicator trim available.

Catalog number	ANSI	Function outside/inside	Name	Description
MA101	F 01		Passage/closet latchset	Latch bolt operated by knob/lever from either side at all times. Inside knob/lever always free for immediate egress.
MA161	F 31		Connecting room/exit lock	Latch bolt operated by knob/lever from inside. No trim outside. Auxiliary dead latch.
MA301	F 02		Privacy lock	Latch bolt operated by knob/lever from either side. Dead bolt operated by turn from inside and by emergency release from outside.
MA311	F 19		Privacy, bedroom or bath lock with inside lever release	Latch bolt operated by knob/lever from either side. Dead bolt operated by turn from inside and emergency release from outside. Operating inside knob/lever retracts both bolts. Inside knob/lever always free for immediate egress.
MA321	F 22		Privacy lock with no entry lockout	Latch bolt operated by knob/lever from either side except when outside knob/lever is locked by inside turn. Operating inside knob/lever, closing door or operating outside emergency release unlocks outside knob/lever. Inside knob/lever always free for immediate egress.
MA371*	F 14		Store door lock	Latch bolt operated by knob/lever from either side. Dead bolt operated by key from either side.
MA381	F 09		Apartment exit lock	Latch bolt operated by knob/lever from either side, except when outside knob/lever is locked by key from inside. When outside knob/lever is locked, latch bolt is retracted by key from outside or by operating inside lever. Auxiliary dead latch. Inside knob/lever always free for immediate egress.
MA411*	F 30		Asylum lock	Latch bolt operated by key from either side. Both knobs/levers always inoperative. Auxiliary dead latch.
MA431	F 34		Security lock with deadbolt	Latch bolt operated by knob/lever from either side except when outside knob/lever is locked from inside or outside by key. Dead bolt retracted by key from inside or outside. Operating inside knob/lever retracts both bolts and unlocks outside. Latch bolt dead locked when dead bolt is thrown. Inside knob/lever always free for immediate egress.

\*Caution: Double cylinder locks on residences and any door, in any structure, which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

## Functions

To order Falcon MA Series locksets, please consult page 7 for ordering information and assistance.

 Indicates interchangeable core available.

 Indicates indicator trim available.

Catalog number	ANSI	Function outside/inside	Name	Description
MA441	F 32		Classroom security lock	Latch bolt operated by knob/lever from either side except when outside knob/lever is locked from inside or outside by key. When outside knob/lever is locked, latch bolt is retracted by key from inside or outside or by operating inside knob/lever. Auxiliary dead latch. Inside knob/lever always free for immediate egress.
MA451	F 15		Hotel guest lock	Latch bolt operated by key from outside or by operating inside knob/lever. Outside knob/lever is always inoperative. Dead bolt projected by turn from inside and all keys except emergency key are shut out. Operating inside knob/lever retracts both bolts. Auxiliary dead latch. Inside knob/lever always free for immediate egress.
MA521	F 04		Entry/office lock with button lockout	Latch bolt operated by knob/lever from either side except when outside knob/lever is made inoperative by buttons in face. When outside knob/lever is locked, latch bolt is retracted by key from outside or by operating inside knob/lever. Auxiliary dead latch. Outside knob/lever is unlocked by button on face. Inside knob/lever always free for immediate egress.
MA531	F 12/ F 20		Apartment corridor lock	Latch bolt operated by knob/lever from either side, except when outside knob/lever is made inoperative by buttons in face. Dead bolt operated by key outside or turn inside. Key outside operates both bolts. Operating inside knob/lever retracts both bolts and outside remains locked. Latch bolt is deadlocked when outside knob/lever is made inoperative or when the dead bolt is projected. When dead bolt is retracted, knob/lever is unlocked by buttons in face. Inside knob/lever always free for immediate egress.
MA541*	F 21		Entry or office lock	Latch bolt operated by knob/lever from either side. Dead bolt operated by key from outside or turn from inside.
MA551	F 06		Holdback lock	Latch bolt operated by lever from either side except when outside lever is locked from outside by key. Latch bolt can be locked in a retracted position by key. When outside lever is locked, latch bolt is retracted by key from outside or by operating inside lever unless latch bolt has been locked in a retracted position. Auxiliary dead latch. To activate the Holdback Function – from the unlocked position rotate the outside lever/knob to retract the latchbolt. Rotate key 360°. Release lever/knob. To release Holdback Function, rotate key 360° clockwise. Inside knob/lever always free for immediate egress.  Note: Chassis is handed.
MA561	F 05		Classroom lock	Latch bolt operated by knob/lever from either side except when outside knob/lever is locked from outside by key. When outside knob/lever is locked, latch bolt is retracted by key from outside, or by operating inside knob/lever. Auxiliary dead latch deadlocks latchbolt when door is closed. Inside knob/lever always free for immediate exit.
MA571	F 13		Dormitory or exit lock	Latch bolt operated by knob/lever from either side. Dead bolt projected by key from outside and turn from inside. Operating inside knob/lever retracts both bolts and unlocks outside. Inside knob/lever always free for immediate egress.
MA581	F 07		Storeroom lock	Latch bolt operated by key from outside or by operating inside knob/lever. Outside knob/lever is always inoperative. Auxiliary dead latch. Inside knob/lever always free for immediate egress.

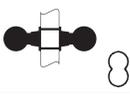
\*Caution: Double cylinder locks on residences and any door, in any structure, which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

## Functions

To order Falcon MA Series locksets, please consult page 7 for ordering information and assistance.

 Indicates interchangeable core available.

 Indicates indicator trim available.

Catalog number	ANSI	Function outside/inside	Name	Description
MA621	F 08/ F 10		Apartment corridor lock with button lockout	Latch bolt is operated by knob/lever from either side, except when outside knob/lever is made inoperative by buttons in face. Dead bolt is operated by turn inside. Key outside operates both bolts. Outside knob/lever is unlocked by button on face. Inside knob/lever always free for immediate egress.
MA641	NA		Dormitory lock	Latch bolt by knob/lever inside and key outside. Inside knob/lever free. Outside knob/lever rigid. Deadbolt by key outside or T-turn inside. Rotating inside knob/lever retracts both bolts. Deadlocking latch. Inside knob/lever always free for immediate egress.
MA851	NA		Storeroom-fail safe (EL - 12 or 24V DC) (RX option - request to exit)	Latch bolt operated by knob/lever from either side except when outer knob/lever is electrically locked. When outer knob/lever is locked, latch bolt retracted by key in cylinder outside. Deadlocking latch. Inside knob/lever always free for immediate egress.  Note: Specify 12V or 24V DC.
MA881	NA		Storeroom-fail secure (EU - 12 or 24V DC) (RX option- request to exit)	Latch bolt operated by knob/lever from inside except when outer knob/lever is electrically unlocked, then latch bolt from either side. When locked, key in cylinder outside retracts latch bolt. Deadlocking latch. Inside knob/lever always free for immediate egress.  Note: Specify 12V or 24V DC.
MA911	F 29		Classroom dead lock	Key from outside operates dead bolt. Turn from inside retracts but does not project dead bolt.
MA921	F 18		Outside only deadlock	Dead bolt operated by key from outside only.
MA931*	F 16		Two sided deadlock	Dead bolt operated by key from either side.
MA941	F 17		Deadlock with inside turn	Dead bolt operated by key from outside and by turn from inside.
MA12	NA		Single dummy	Single dummy trim
MA18	NA		Double dummy	Double dummy trim

\*Caution: Double cylinder locks on residences and any door, in any structure, which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Options and accessories

# Trim packages

Both knob and lever trim packages are available to allow complete replacement of inner and outer trim on any lock function. Packages include inside and outside trim, spindle and mounting screws. Please see current price book for more details.

### Trim options



#### Abrasive coated knobs and levers<sup>1</sup>

Knobs and levers are available with abrasive coating to identify entrances to hazardous areas to the handicapped.

#### Knurled levers<sup>1</sup>

Levers are available knurled to identify entrances to hazardous areas to the handicapped.

#### Lead wrapping<sup>1</sup>

MA Series locksets and latchsets are available with lead-wrapping for use on X-ray room doors (or similar situations).

### Strikes

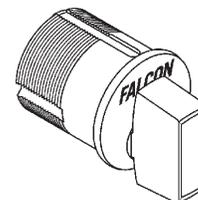
Manufactured from heavy gauge brass or stainless steel. Meets ANSI Standard A115.1 for frame preparation. Strikes are available with various lip lengths.



### Thumb turn/threaded cylinders

(sold separately)

Standard thumb turn threaded cylinders for deadbolt operation of MA Series locks may be used in lieu of surface mounted thumb turns. Furnished with A09894-1 cam. Available in length indicated and all MA Series finishes.



Catalog number	Length
973	1 1/8" RH (turns counter-clockwise)
974	1 1/8" LH (turns clockwise)

### Indicators

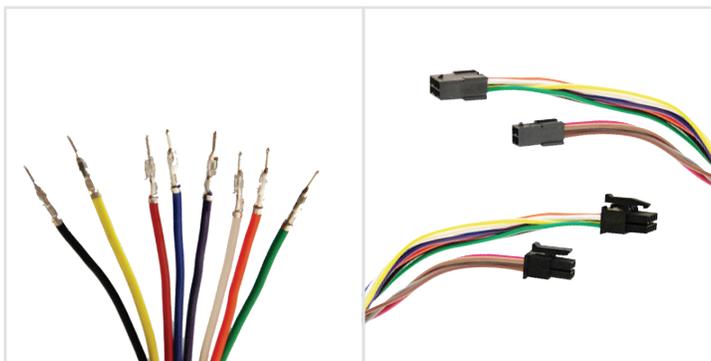
(Available in Gala Rose and Napa Escutcheon)

Two different variations are available to communicate the status of the door on the outside: Occupied/Vacant or Locked/Unlocked. Available in sectional or escutcheon (shown) styles. Please consult the price book for additional details.



### Allegion Connect

Cross-category solution using common interconnect components for electrified options. Available on the MA851 and MA881 functions including all voltage (12 or 24) and RX options.



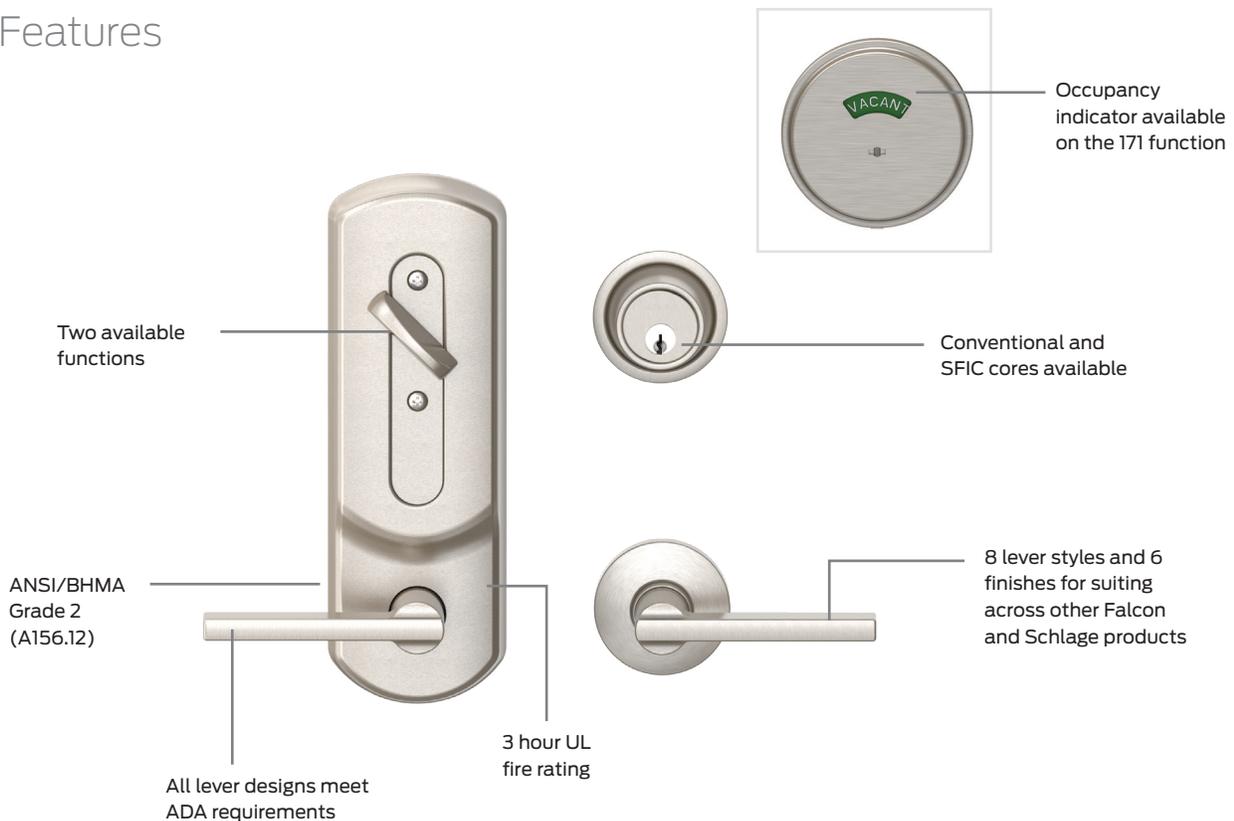
1. Abrasive, knurling and lead wrap options not available on Latitude, Longitude, Broadway and Boardwalk levers.

# H2 Series

Grade 2 interconnected lever lock

Falcon is committed to delivering a solid product at a solid price. The H2 Series is designed for multi-family entry doors and public restroom applications requiring a durable, robust commercial interconnect lock. These interconnected locks feature single motion egress to meet the latest Life and Safety code requirements. The H2 Series is BHMA Grade 2 certified and is available in multiple finishes and lever styles for cohesive styling/ pairing with other Falcon and Schlage products.

## Features



## Specifications

# H2 Series

### Product specifications

**ANSI/BHMA:** Certified ANSI/BHMA A156.12-2013, Grade 2.

**UL:** Listed 3-hour fire door, A label.

**Functions:** 2 commercial functions available.

**Finishes:** 6 options available. See page 6 for finish color and comparative chart.

**Door thickness:** 1 3/4" - 2" door range standard; 1 3/8" available (must be specified).

**Backset:** Adjustable backset fits 2 3/8" or 2 3/4".

**Mechanism:** Cold formed steel, zinc plated and dichromated for rust resistance.

**Attachment:** Outer trims secured to the door by thru-bolts through a steel plate on the inside of the door. Inside escutcheon conceals mounting screws.

**Handing:** Specify hand of door when ordering. Field reversible.

**Cylinders:** Conventional cylinder, drilled with 6-pin chambers, pinned in 5 comes standard. Pinning in 6 chambers available (at no cost) when specified. Optional 7-pin conventional and 6- or 7-pin Small Format Interchangeable Core (SFIC) cylinders. Cylinder housings and plugs machined from solid brass. Springs are phosphor bronze. Two nickel silver keys furnished standard. See SFIC cylinder information on page 8 and H2 Series cylinder pages for additional options.

**Keyways:** "G" keyway standard on conventional cylinders. "A" keyway standard on SFIC cylinders. Additional options: Falcon, Schlage and many Best and Arrow keyways.

**Trim:** Roses are wrought brass, installed over wrought steel reinforcing plates. Levers and escutcheons are zinc.

**Latches:** 1" x 2 1/4" dual option faceplate (square corner standard, round corner included in package). 1" edge bore required. Deadbolt has 1" projection. Adjustable backset fits 2 3/8" or 2 3/4".

**Strikes:** (1) 2 3/4" x 1 1/8" T-strike and (1) 2 3/4" x 1 1/8" lipless strike.

**Center to Center:** Fits 4" or 5 1/2" (field adjustable) center to center door preps

Catalog number	ANSI	Function outside/inside	Name	Description
H2101	F94		Entry single locking	Deadbolt operated by key from outside or by turn from inside. Bolt automatically deadlocks when fully thrown. Latch retracted by lever from either side. Turning inside lever retracts deadbolt and latch simultaneously for immediate exit.
H2171			Public restroom w/occupancy indicator	Deadlocking latch bolt operated by emergency key outside or rotating inside lever. Outside lever rigid. Rotating turn from inside extends dead bolt and changes visual message on outside from vacant to occupied. Both dead bolt and deadlocking latch bolt retract by rotating inside lever.

Designs and styles

# Lever styles

Most levers can be suited with other Falcon locks and exit device trim. Levers also suite with Schlage residential lever designs, making the Falcon H2 Series perfect for multi-family applications.

Avalon (AVA)



Boardwalk (BRK)



Broadway (BRW)



Dane (DAN)



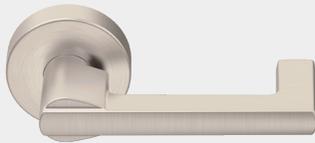
Flair (FLA)



Latitude (LAT)



Longitude (LON)



Quantum (QUA)

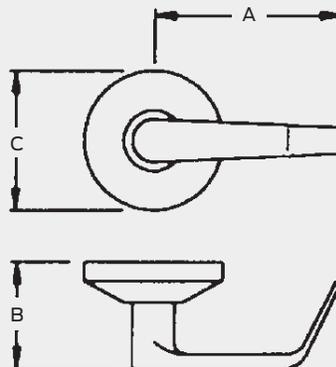


**Finishes**

Available in BHMA 605, 619, 622, 625, 626, and 643e. See page 6 for finish color and comparative chart.

**Lever dimensions chart**

Lever	A - width	B - projection	C - rose
Avalon (A)	4 1/2"	2 5/8"	10"H x 3 3/8"W
Boardwalk (BRK)	5 1/16"	2 3/4"	10"H x 3 3/8"W
Broadway (BRW)	5 1/16"	2 3/4"	10"H x 3 3/8"W
Dane (D)	4 9/16"	2 1/2"	10"H x 3 3/8"W
Flair (FLA)	4 7/16"	2 1/4"	10"H x 3 3/8"W
Latitude (LAT)	4 13/16"	2 11/16"	10"H x 3 3/8"W
Longitude (LON)	4 13/16"	2 11/16"	10"H x 3 3/8"W
Quantum (Q)	4 5/8"	2 11/16"	10"H x 3 3/8"W



Note: Return to door meets 1/2" requirement for Dane (D) and Quantum (Q) levers.

## Options

## H2 Series cylinders

**Falcon Small Format Interchangeable Core (SFIC) cylinders**

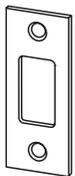
Falcon offers a wide selection of keyways in SFIC cylinder formats. Master keying is available and, in most cases, Falcon can even furnish cores master keyed into existing Best or Arrow key systems. See page 8 for details.

**To order conventional cylinders in competitive keyways (6-pin)**

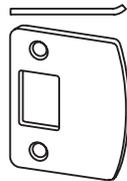
When specifying a competitive cylinder, reference How-to-order page for correct cylinder suffix and be sure to list brand plus keyway under the "Keyway" section and the correct part number below in the "Other requirements" area of the part number order string.

Brand	Keyway	Cylinder 6-Pin			Function
		O-Bit	KA	KD	
Schlage	C	Q100-108	Q100-108-KA	Q100-108-KD	H2101

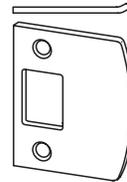
## Strikes

**Deadbolt strikes**

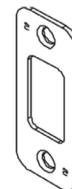
**10-094**  
1 1/8" x 2 3/4"  
Square corner  
(standard)



**10-092**  
1 5/8" x 2 1/4"  
1/4" radius corner  
full lip



**10-095**  
1 5/8" x 2 1/4"  
Square corner  
full lip



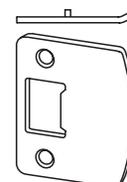
**10-116**  
1 1/8" x 2 3/4"  
Round corner

**Deadlatch strikes**

**10-001**  
1 1/8" x 2 3/4"  
Square corner  
(standard)



**10-026**  
1 5/8" x 2 1/4"  
Square corner  
full lip



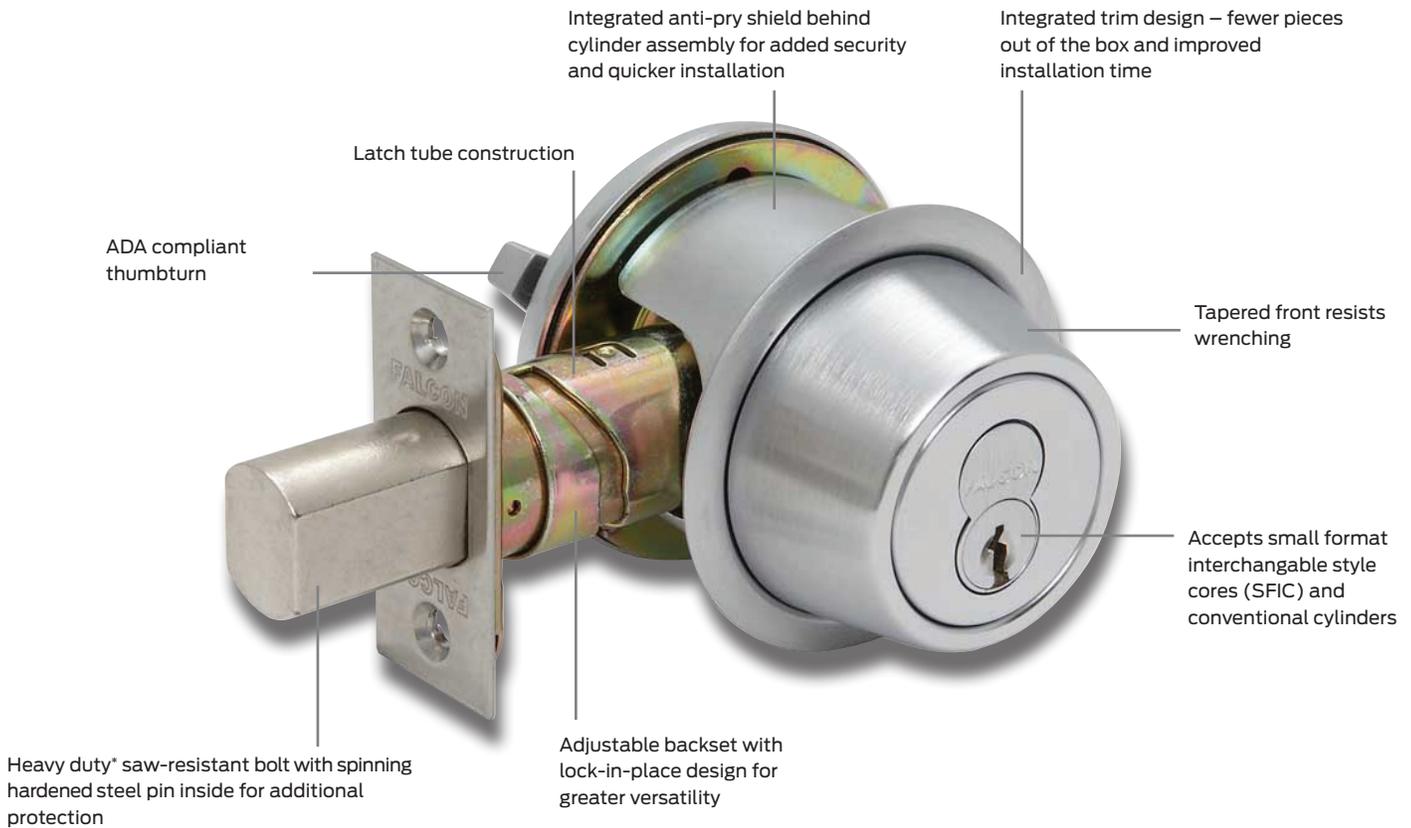
**10-027**  
1 5/8" x 2 1/4"  
1/4" radius corner  
full lip

# D Series

Grade 1 and Grade 2 deadbolts

Deadbolt locks provide an extra measure of protection against break-in when used as a supplement to an existing lockset. In applications ranging from military and government projects to multi-family housing, retail and restaurants, Falcon deadbolts deliver superior performance and the flexibility of multiple keying systems. Our full line of Grade 1 and 2 auxiliary locks feature interchangeable cores that are compatible with SFIC products from other manufacturers. Plus they're backed by Allegion, the best name in the business.

## Features



\*Grade 1 - High strength steel - powdered  
Grade 2 - Zinc

## Ordering information

# How to order

For correct ordering and to help ensure no delays in the shipment of your product, follow the information sequence below. Additional information for each category can be found on other pages of this catalog and in the Falcon price book. Cylindrical, mortise and interconnected lock ordering information can be found on page 7.

### Examples: FAL-D211P6-625-619-Schlage C-Q033-069-KD

Brand		Product number			Finish		Door detail			Keyway	Other requirements	
1	2	3	4	5	6	7	8	9	10	11	12	13
	Series	Func	Cylinder suffix	Fire rated	Outside	Inside	Deadbolt part #	Strike part #	Door thickness <sup>1</sup>	Extension	Keyway	Examples <sup>2</sup>
FAL	- D	211	P6		625	- 619					Schlage C	- Q033-069-KD
FAL	- D	141	P6	F	625	-	30-259	10-064			Russwin D1	- Q033-072-KD

Defaults to factory standard if not specified.

1. Enter door thickness if non-standard. Examples: 2 1/2" = 212; 2 1/4" = 214.

2. Examples include: Competitive keyway cylinder part number, master keying requirements, Blockokey.

### Detail

1	<b>Brand:</b> Falcon=FAL																				
2	<b>Series:</b> Lock series = D																				
3	<b>Function:</b> Choose from function lists (pages 57 and 59).																				
4	<b>Cylinder suffix:</b> Choose cylinder type <table border="0"> <tr> <td><b>B</b></td> <td>Less SFIC</td> <td><b>L</b></td> <td>Less 6-pin conventional cylinder</td> </tr> <tr> <td><b>BB</b></td> <td>SFIC, Best style</td> <td><b>P</b></td> <td>6-pin conventional cylinder (pinned to 5)</td> </tr> <tr> <td><b>BDC</b></td> <td>SFIC disposable construction core</td> <td><b>P6</b></td> <td>6-pin conventional cylinder (pinned to 6)</td> </tr> <tr> <td><b>G<sup>1</sup></b></td> <td>SFIC, Falcon style<sup>1</sup></td> <td><b>P7</b></td> <td>7-pin conventional cylinder (pinned to 7)</td> </tr> <tr> <td><b>H</b></td> <td>SFIC refundable construction core</td> <td><b>CP6</b></td> <td>6-pin conventional cylinder, Schlage C</td> </tr> </table>	<b>B</b>	Less SFIC	<b>L</b>	Less 6-pin conventional cylinder	<b>BB</b>	SFIC, Best style	<b>P</b>	6-pin conventional cylinder (pinned to 5)	<b>BDC</b>	SFIC disposable construction core	<b>P6</b>	6-pin conventional cylinder (pinned to 6)	<b>G<sup>1</sup></b>	SFIC, Falcon style <sup>1</sup>	<b>P7</b>	7-pin conventional cylinder (pinned to 7)	<b>H</b>	SFIC refundable construction core	<b>CP6</b>	6-pin conventional cylinder, Schlage C
<b>B</b>	Less SFIC	<b>L</b>	Less 6-pin conventional cylinder																		
<b>BB</b>	SFIC, Best style	<b>P</b>	6-pin conventional cylinder (pinned to 5)																		
<b>BDC</b>	SFIC disposable construction core	<b>P6</b>	6-pin conventional cylinder (pinned to 6)																		
<b>G<sup>1</sup></b>	SFIC, Falcon style <sup>1</sup>	<b>P7</b>	7-pin conventional cylinder (pinned to 7)																		
<b>H</b>	SFIC refundable construction core	<b>CP6</b>	6-pin conventional cylinder, Schlage C																		
5	<b>Fire rated:</b> Indicate with an "F" if fire rated deadbolt is desired and specify part number under section 8. See page 60 for deadbolt options.																				
6	<b>Outside finish:</b> Choose outside finish from available options.																				
7	<b>Inside finish:</b> Fill in inside finish only if different from outside.																				
8	<b>Deadbolt part number:</b> See page 60 for options. Specify only if non-standard deadbolt is required. Specify LLL for less deadbolt.																				
9	<b>Strike part number:</b> See page 60 for options. Specify only if non-standard strike is required. Specify LLL for less strike.																				
10	<b>Door thickness:</b> 1 7/8" standard for conventional cylinder and thumbturn. 1 5/8" to 2 1/4" standard for SFIC cylinder. Specify only if non-standard door thickness is required.																				
11	<b>Extension:</b> Enter one of the following when door specified is 2" or greater. (EI or EO assumes the latch will be centered on a 1 3/4" door to which material has been added.) <table border="0"> <tr> <td><b>EE</b></td> <td>Extended Equally</td> <td><b>EI</b></td> <td>Extended Inside</td> </tr> <tr> <td><b>EO</b></td> <td>Extended Outside</td> <td><b>ED</b></td> <td>Extended Differently</td> </tr> </table>	<b>EE</b>	Extended Equally	<b>EI</b>	Extended Inside	<b>EO</b>	Extended Outside	<b>ED</b>	Extended Differently												
<b>EE</b>	Extended Equally	<b>EI</b>	Extended Inside																		
<b>EO</b>	Extended Outside	<b>ED</b>	Extended Differently																		
12	<b>Keyway:</b> G keyway (KD) is standard when ordering P, P6 or P7 conventional cylinders; A keyway (KD) is standard when ordering BB, BDC, G or H SFIC cylinders. Other keyways available.																				
13	<b>Additional requirements:</b> <ul style="list-style-type: none"> <li>▪ Competitive keyway cylinders: Specify part number<sup>2</sup></li> <li>▪ Keying detail: Blockokey or additional keys (with quantity) requests, large bow keys, master keying (Example: Grand Master keyed, Master keyed, change key, etc.)</li> </ul>																				

1. 6-pin standard, specify G7 if 7-pin is desired.

2. Specify P6 and list the cylinder part number under "Other requirements" if a 6-pin competitive keyway cylinder is desired (see page 60 for options).

## Specifications

# D100 Series

## Grade 1, heavy-duty deadbolts

### Product specifications

**ANSI/BHMA Standard:** A156.5, 2001, Grade 1.

**UL:** UL listed for 3-hour fire door

**Functions:** 5 commercial functions available.

**Finishes:** 5 options available. See page 6 for finish color and comparative chart.

**Door thickness:** 1 <sup>7</sup>/<sub>8</sub>" standard conventional cylinder and thumbturn only. 1 <sup>5</sup>/<sub>8</sub>" to 2 <sup>1</sup>/<sub>4</sub>" SFIC cylinder.

**Backsets:** 2 <sup>3</sup>/<sub>8</sub>" - 2 <sup>3</sup>/<sub>4</sub>" adjustable deadbolt.

**Attachment:** Locks are solidly attached to the door by <sup>1</sup>/<sub>4</sub>" heat-treated steel bolts. These bolts pass through a steel plate (D111, D121 and D141) or the inner cylinder housing (D131) and thread directly into the back of the outer cylinder housing. A permanent cap is inserted over the inside cylinder (D131) making the bolts nearly impossible to remove.

**Handing:** Locks are non-handed.

**Cylinders:** Conventional cylinder, drilled with 6-pin chambers, pinned in 5 comes standard. Pinning in 6 chambers available (at no cost) when specified. Optional 7-pin conventional and 6- or 7-pin Small Format Interchangeable Core (SFIC) cylinders. Cylinder housings and plugs machined from solid brass. Springs are phosphor bronze. Two nickel silver keys furnished standard. See SFIC cylinder information on page 8 and D Series cylinder pages for additional options.

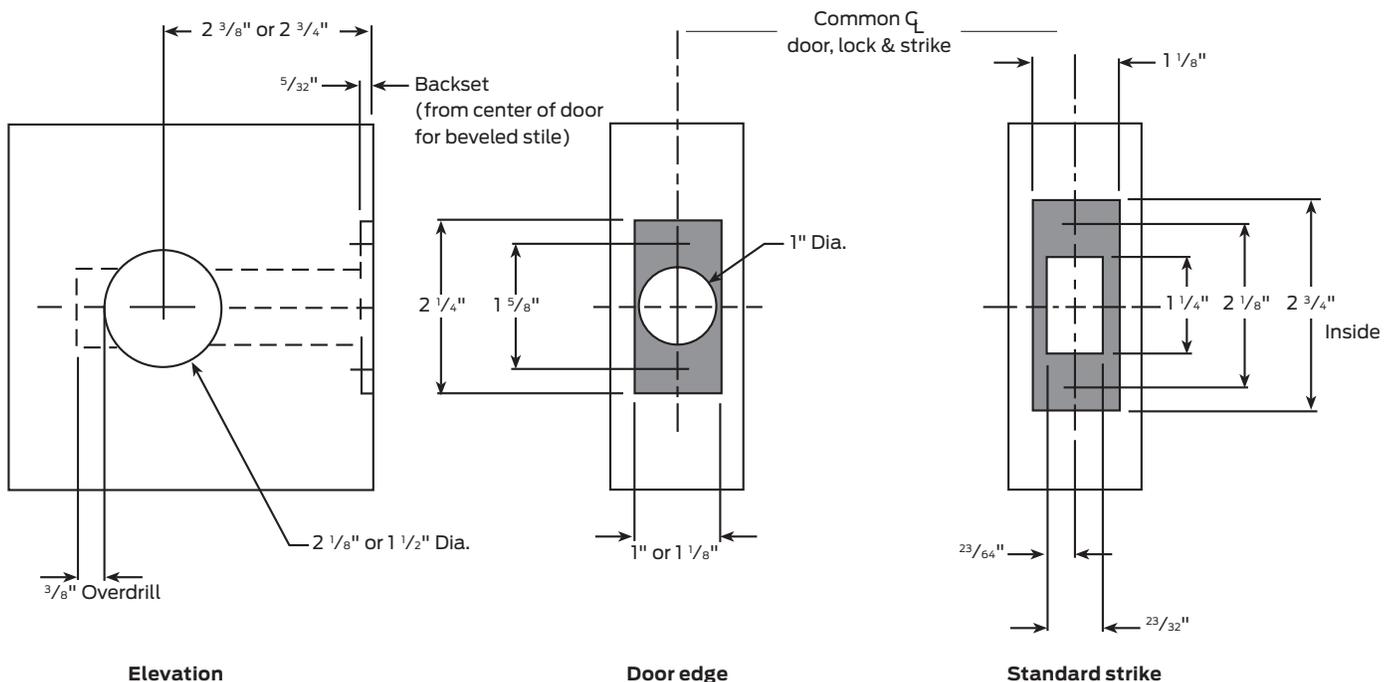
**Keyways:** "G" keyway standard in conventional cylinders. "A" keyway standard in SFIC cylinders. Additional options: Falcon, Schlage and many Best and Arrow keyways.

**Exposed trim:** Wrought brass or bronze reinforced with steel insert.

**Deadbolts:** Deadbolt locks are furnished with deadbolts which have a full 1" projection. Housed within the deadbolt is a free-turning, <sup>1</sup>/<sub>4</sub>" thick, hardened steel, saw-resistant roller. Furnished standard with 2 <sup>3</sup>/<sub>8</sub>" - 2 <sup>3</sup>/<sub>4</sub>" adjustable backset and 1 <sup>1</sup>/<sub>8</sub>" x 2 <sup>1</sup>/<sub>4</sub>" faceplate. Optional 1" x 2 <sup>1</sup>/<sub>4</sub>" faceplate. Consult Options and Accessories section for other optional faceplates. D100 bolt is high strength steel.

**Strikes:** 2 <sup>3</sup>/<sub>4</sub>" x 1 <sup>1</sup>/<sub>8</sub>" lipless strike standard. ANSI 4 <sup>7</sup>/<sub>8</sub>" x 1 <sup>1</sup>/<sub>4</sub>" lipless, 2 <sup>1</sup>/<sub>4</sub>" full lip strikes, a 2 <sup>3</sup>/<sub>4</sub>" x 1 <sup>1</sup>/<sub>8</sub>" T-strike or a security strike are available. Consult options and accessories section.

**Screws:** Furnished with wood/machine screws for use on wood or metal doors or frames.



## Functions

# D100 Series styles

### D111: Classroom function

Deadbolt thrown or retracted by key from outside. Inside turn will only retract bolt. Bolt automatically deadlocks when fully thrown.

ANSI/BHMA E0171



### D121: Single cylinder

Deadbolt thrown or retracted by key only. Blank plate inside. Bolt automatically deadlocks when fully thrown.

ANSI/BHMA E0161



### D131: Double cylinder

Deadbolt thrown or retracted by key from either side. Bolt automatically deadlocks when fully thrown.

ANSI/BHMA E0141



### D141: Single cylinder x thumbturn

Deadbolt thrown or retracted by key or by turn. Bolt automatically deadlocks when fully thrown.

ANSI/BHMA E0151



### D151: Double thumbturn

Deadbolt thrown or retracted by turn unit from either side. Bolt automatically deadlocks when fully thrown. Application for shelters.

#### Finishes

Available in BHMA 605, 606, 613, 625, and 626. See page 6 for finish color and comparative chart.

## Specifications

# D200 Series

## Grade 2, medium-duty deadbolts

### Product specifications

**ANSI/BHMA:** A156.5, 2001, Grade 2.

**Functions:** 8 commercial functions available.

**Finishes:** 5 options available. See page 6 for finish color and comparative chart.

**Door thickness:** 1 <sup>3</sup>/<sub>8</sub>" to 2 <sup>1</sup>/<sub>4</sub>" standard conventional cylinder. 1 <sup>5</sup>/<sub>8</sub>" to 2" SFIC cylinder.

**Backsets:** 2 <sup>3</sup>/<sub>8</sub>"- 2 <sup>3</sup>/<sub>4</sub>" adjustable deadbolt.

**Attachment:** Locks are solidly attached to the door by <sup>1</sup>/<sub>4</sub>" heat-treated steel bolts. These bolts pass through a steel plate (D211, D221 and D241) or the inner cylinder housing (D231) and thread directly into the back of the outer cylinder housing.

**Handing:** Non-handed. May be used in right hand or left hand doors swinging in or out.

**Cylinders:** Conventional cylinder, drilled with 6-pin chambers, pinned in 5 comes standard. Pinning in 6 chambers available (at no cost) when specified. Optional 7-pin conventional and 6- or 7-pin Small Format Interchangeable Core (SFIC) cylinders. Cylinder housings and plugs machined from solid brass. Springs are phosphor bronze. Two nickel silver keys furnished standard. See SFIC cylinder information on page 8 and D Series cylinder pages for additional options.

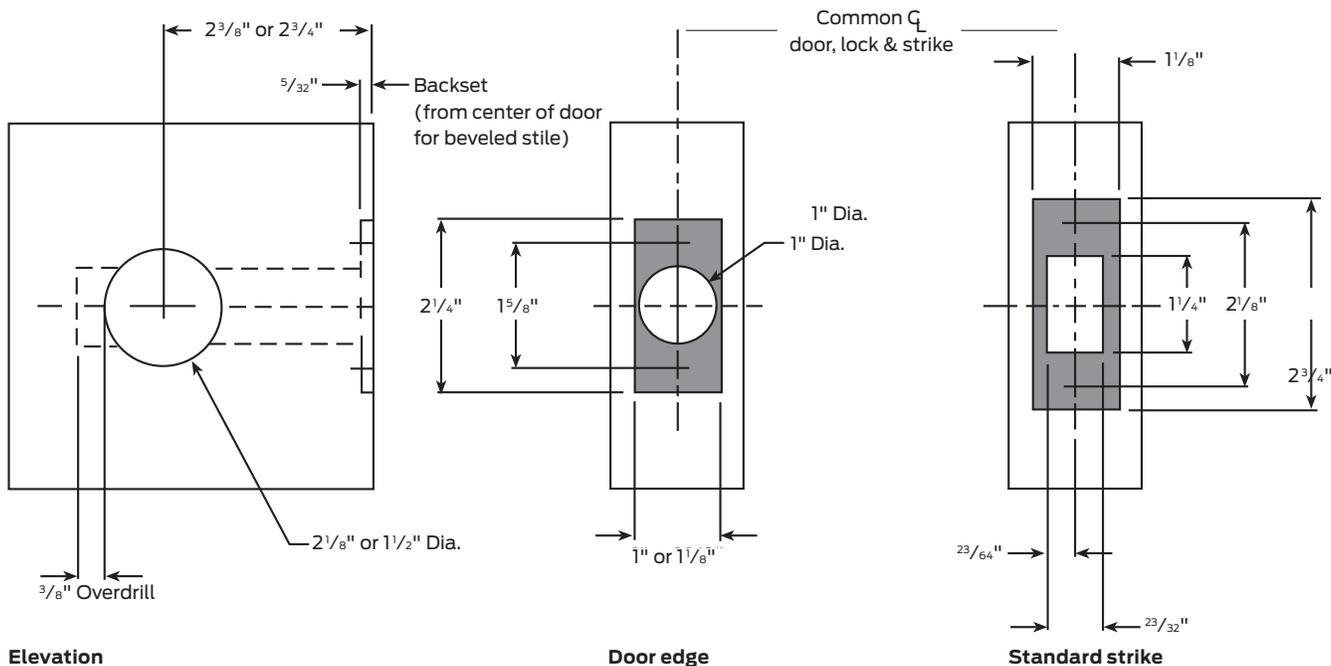
**Keyways:** "G" keyway standard in conventional cylinders. "A" keyway standard in SFIC cylinders. Additional options: Falcon, Schlage and many Best and Arrow keyways.

**Exposed trim:** Wrought brass or bronze reinforced with steel insert.

**Deadbolts:** Deadbolt locks are furnished with deadbolts which have a full 1" projection. Housed within the deadbolt is a free-turning, <sup>1</sup>/<sub>4</sub>" thick, hardened steel, saw-resistant roller. Furnished standard with 2 <sup>3</sup>/<sub>8</sub>"- 2 <sup>3</sup>/<sub>4</sub>" adjustable backset and <sup>1</sup>/<sub>8</sub>" x 2 <sup>1</sup>/<sub>4</sub>" faceplate. Optional 1" x 2 <sup>1</sup>/<sub>4</sub>" faceplate. Consult Options and Accessories section for other optional faceplates. D200 bolt is cast zinc.

**Strikes:** 2 <sup>3</sup>/<sub>4</sub>" x <sup>1</sup>/<sub>8</sub>" lipless standard. ANSI 4 <sup>7</sup>/<sub>8</sub>" x <sup>1</sup>/<sub>4</sub>" lipless, 2 <sup>1</sup>/<sub>4</sub>" full lip strikes, a 2 <sup>3</sup>/<sub>4</sub>" x <sup>1</sup>/<sub>8</sub>" T-strike or a security strike are available. Consult Options and Accessories section.

**Screws:** Furnished with wood/machine screws for use on wood or metal doors or frames.



## Functions

# D200 Series styles

### D211: Classroom function

Deadbolt thrown or retracted by key from outside. Inside turn will only retract bolt. Bolt automatically deadlocks when fully thrown.

ANSI/BHMA E0172



### D221: Single cylinder

Deadbolt thrown or retracted by key only. Blank plate inside. Bolt automatically deadlocks when fully thrown.

ANSI/BHMA E016



### D231: Double cylinder

Deadbolt thrown or retracted by key from either side. Bolt automatically deadlocks when fully thrown.

ANSI/BHMA E0142



### D241: Single cylinder with thumbturn

Deadbolt thrown or retracted by key or by turn. Bolt automatically deadlocks when fully thrown.

ANSI/BHMA E0152



### D251: Double thumbturn

Deadbolt thrown or retracted by turn unit from either side. Bolt automatically deadlocks when fully thrown. Application for shelters.

### D261: Thumbturn (inside only) ANSI/BHMA E0192

### D261M: Thumbturn with rose ANSI/BHMA E01112

Deadbolt thrown or retracted by turn unit only. No outside trim (D261), or outside blank rose (D261M). Bolt automatically deadlocks when fully thrown.



### D271: Thumbturn (Inside with occupancy indicator)

Deadbolt thrown or retracted by turn unit only. Occupancy indicator on outside (reads either in use or vacant with color coding). Bolt automatically deadlocks when fully thrown. Emergency key supplied.



#### Finishes

Available in BHMA 605, 606, 613, 625, and 626. See page 6 for finish color and comparative chart.

## Options

## D Series cylinders

**Falcon Small Format Interchangeable Core (SFIC) cylinders**

Falcon offers a wide selection of keyways in SFIC cylinder formats. Master keying is available and, in most cases, Falcon can even furnish cores master keyed into existing Best or Arrow key systems. See page 8 for details.

**To order conventional cylinders in competitive keyways (6-pin)**

When specifying a competitive cylinder, reference How-to-order page for correct cylinder suffix and be sure to list brand plus keyway under the "Keyway" section and the correct part number below in the "Other requirements" area of the part number order string.

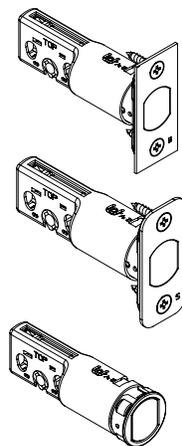
Brand	Keyway	O-Bit	KA	KD	Lock function
Corbin	60	Q033-077		Q033-077-KD	D141/241
Corbin	L4	Q033-079			D121/221
Russwin		Q033-078			
Russwin	D1	Q033-074		Q033-074-KD	D121/221
		Q033-073		Q033-073-KD	D131/231
		Q033-072		Q033-072-KD	D141/241
		Q033-065			D111
Schlage	C 5-pin	Q500-065			D111
		Q500-071			D131
	C 6-pin	Q033-071		Q033-071-KD	D121/221
		Q033-070	Q033-070-KA	Q033-070-KD	D131/231
	E 6-pin	Q033-069	Q033-069-KA	Q033-069-KD	D111/211
		Q033-066			D121/221
Yale	8 (Para)	Q033-067			D131/231
		Q033-068			D121/221
				Q033-076-KD	D121/221
				Q033-075-KD	D141/241
					D111/211

## Deadbolts

Options for configured locks.

	D100	D200	Adjustable backset	Description
Non-fire rated	30-256	30-253	2 3/8" or 2 3/4"	Square corner, 1 1/8" x 2 1/4", standard
	30-176	30-175	2 3/8" or 2 3/4"	Square corner, 1" x 2 1/4"
	30-178	30-177	2 3/8" or 2 3/4"	Radius corner (1/4"), 1" x 2 1/4"
	30-257	30-254	2 3/8" or 2 3/4"	Circular drive-in bolt (626 finish only)
UL listed	30-174	30-173	2 3/8" or 2 3/4"	Square corner, 1 1/8" x 2 1/4", standard
	30-172	30-171	2 3/8" or 2 3/4"	Square corner, 1" x 2 1/4"
	30-259	30-258	2 3/8" or 2 3/4"	Circular drive-in bolt (626 finish only)

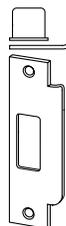
Note: Specify finish 605, 606, 613, 625, or 626.



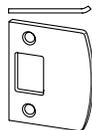
## Strikes



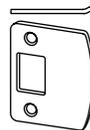
**10-094**  
Square corner with metal dustbox (standard)



**10-087**  
ANSI prep with dustbox



**10-095**  
Full lip, square corner



**10-092**  
Full lip, 1/4" radius corner



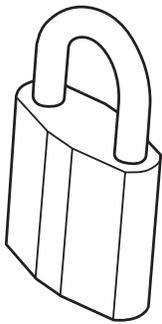
**10-064**  
Drive-in thimble

**10-095**  
Full lip, square corner

# K900 Series

## Padlocks

A pin tumbler padlock manufactured from solid bar stock brass, with chrome-plated, case-hardened steel shackle. The entire cylinder assembly is removable for easier rekeying or quick cylinder change. Note: Key is removable in locked position. Padlocks with longer shackles (2" or 6") available when specified. 1" shackle is standard.

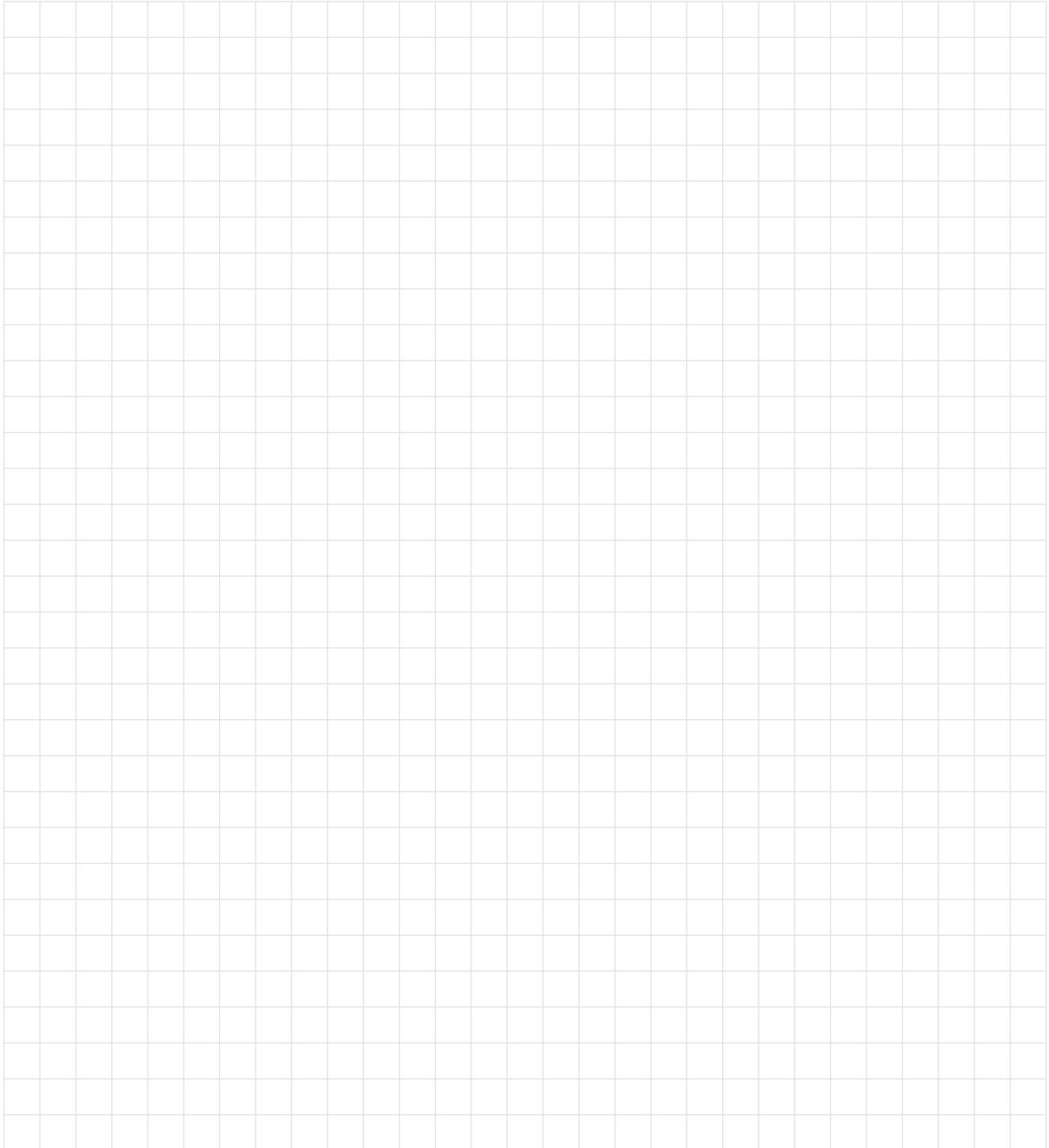


955 Deadlocking type padlock

**Cylinders:** Furnished with solid brass plug and housing, drilled with 6-pin chambers, pinned in 5 unless otherwise specified. Also available with 7-pin cylinder. Furnished with two (2) nickel silver keys standard.

**Keyways:** "G" keyway standard on standard cylinders. Interchangeable core (SFIC) padlocks, branded Schlage, are also available. See pricebook for details.

# Notes



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## About Allegion

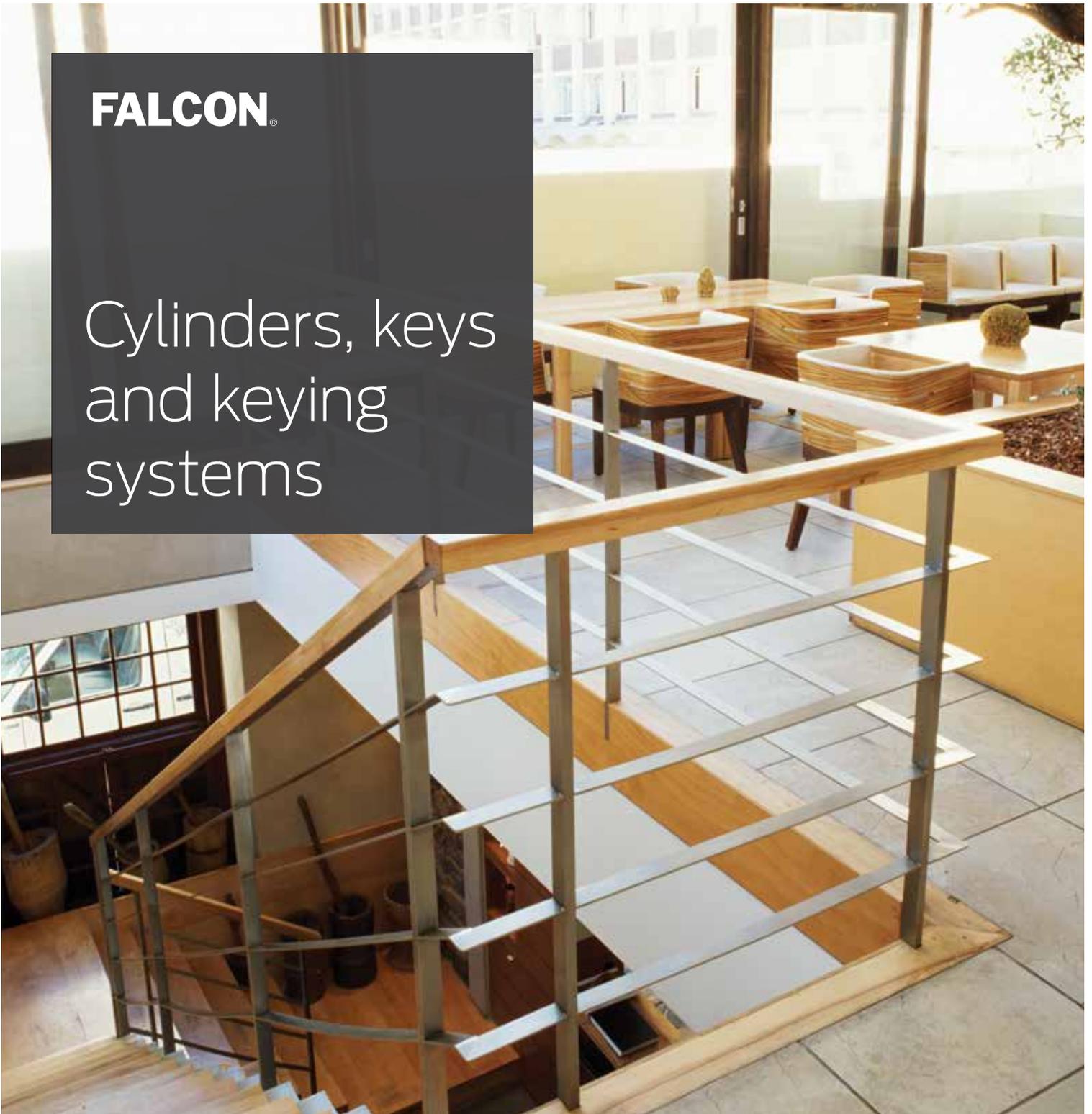
Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries.

For more, visit [www.allegion.com](http://www.allegion.com)

KRYPTONITE ■ LCN ■  ■ STEELCRAFT ■ VON DUPRIN

**FALCON®**

Cylinders, keys  
and keying  
systems



## Contents

- 4 Key and cylinder marking
- 5-7 How to specify master keying
- 8 Keyways and construction keying
- 9 Standard cylinders - Conventional and auxiliary cylinders
- 10-12 Standard cylinders - Competitor keyways
- 13 Standard cylinders - Key blanks and keys
- 14-15 Standard cylinders - Tailpieces and accessories
- 16-17 Interchangeable core
- 18 Interchangeable core - Keys and keyblanks
- 19-20 Interchangeable core - Tailpieces, construction keying and accessories
- 21 Mortise cylinders - Mortise, rim and cam lock cylinders
- 22 Mortise cylinders - Mortise, rim and cam lock housing
- 23-24 Mortise cylinders - Cams
- 25-26 Mortise cylinders - Cylinder collars

## The Falcon difference

### Safety, security and uncompromising value

At Falcon, we know that every product you sell not only has to meet local building codes, but also your expectations for performance and quality. We take your expectations seriously, and that's why we build our locks to deliver durability, convenience and unmatched value. After all, we've built our reputation on the same standards that you have – providing quality products at a reasonable price delivered on time. It's the way we do business and it's what makes Falcon locks a powerful choice, no matter what your project.

# Cylinders, keys and keying systems

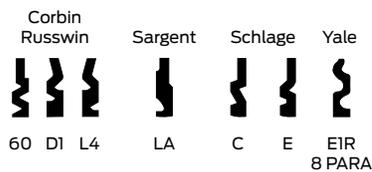
Keys and key control are integral parts of maintaining building security, whether it's during construction or changes in occupancy or use. Falcon offers some of the most versatile and easy to use cylinders and keying systems in the industry. Our interchangeable cores can be removed for quick, easy re-keying and are compatible with SFIC products from other manufacturers. Our multi-level master key program ensures safe, accurate key control. And our full line of mortise cylinders ensures maximum durability, performance and security no matter what the application. Most important, every cylinder, key and keying system we make is backed by one of the best names in the business.

# Keyways and construction keying

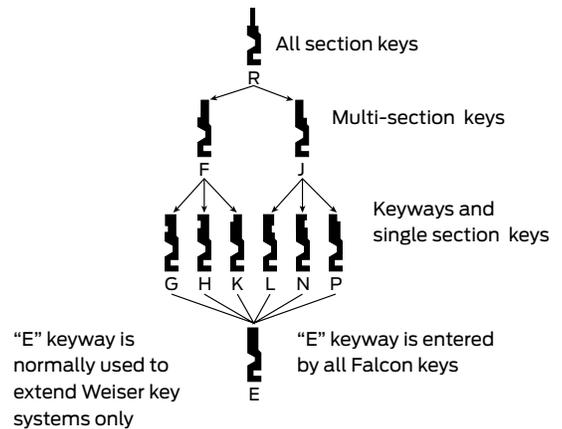
## Keyways

“G” keyway is standard for all Falcon conventional (non-I/C) cylinders and will be supplied unless otherwise specified. The multiple keyway structure shown to the right is used to expand keying systems which require more than one keyway.

Falcon bored locksets are also available with the most common competitors’ keyways shown below. Falcon does not offer master keying of their keyways. D Series deadlocks are limited to “D1”, “L4”, “C”, “E” and “E1R” keyways.



## Falcon multiplex key family



## Construction master keying

Construction master keying is an option for conventional (non-I/C) cylinders and locksets. Cylinders are prepared with a special construction pin at the factory so that the construction master key (CMK) operates all cylinders while the building is under construction.

When construction is complete, turn the top master key in each cylinder. This process moves the special construction pin into a pocket of the cylinder plug, thereby eliminating subsequent operation of the CMK.

To order, specify “(CMK)” after the line item.  
Example: 72 each D441 626 1AA - 72AA (CMK)

### Blockokey® system

Falcon’s Blockokey® system is used for extensive master key systems using conventional (non-I/C) cylinders and locksets. Locks are shipped from the factory with a plastic “key block” in the back of every cylinder’s keyway. A shorter 4-pin “Project Key” operates all cylinders while the building is under construction.

When construction is complete, use the special KB536 extractor key (removal tool) to remove the key block from each cylinder, thereby voiding operation of the project key. Blockokey construction keying is available on select keyways. Consult the Falcon master key team for availability.

To order, specify “Blockokey” after the line item.  
Example: 72 each D441 626 1AA - 72AA Blockokey

### SKD security caution

Unless otherwise specified, SKD sets will not be construction master keyed. Doing so significantly limits the system’s expansion and decreases the security of the SKD locks.

When construction master keying is required for SKD sets, Falcon recommends issuing the SKDs on a different keyway with their own (separate) CMK. All orders which include SKD sets should specify how the construction keying should be handled.

Orders must include the name and address of the person to whom the construction keys and permanent master and change keys should be sent.

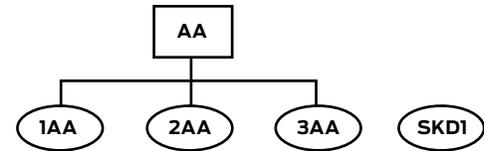
# How to specify master keying

## 2- and 3-Level master keying systems

### To specify a simple master key system (2 levels of keying)

The master key symbol consists of TWO letters, such as AA.  
The change key numbers are added to the master key letters.  
The numbers come first: 1AA, 2AA, 3AA, etc.

When locks are required which are not operated by the master key or other change keys in the system, they are referred to as “single keyed” and given symbols SKD1, SKD2, etc. When all higher levels of master keys are to be disallowed, suffix (NMK) to the symbol of the key which is to operate. This means “not master keyed.” Cylinder 1AA(NMK) is operated by 1AA only. The AA master is blocked from operation.



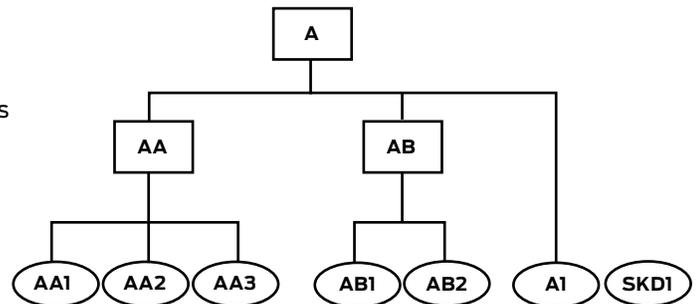
### To specify a grand master key system (3 levels of keying)

The grand master is assigned any ONE letter, such as A. The master keys under this grand are assigned TWO letters, the first of which must be the same as the grand: AA, AB, AC, etc. are all masters under grand A. Masters BA, BB, BC, etc. are all under grand B. Caution: Do not use the letters I or O because of possible confusion with the numerals 1 and 0, respectively. Also, do not use master key symbols CK, KD or KA. Change key numbers come after the letters.

For master keys beyond AZ, insert a number between the letters to designate which pass through the alphabet they represent. A2A through A2Z represents the second pass of masters under grand A. A3A through A3Z would be the third. Change keys under these masters have the numbers suffixed in the usual way: A2A1, A2A50, etc.

If the cylinder is to be operated by its change key and nothing lower than the single lettered GMK, the change number is added to the GMK symbol. This is illustrated by the example A1 in the schematic shown. When locks are required which are not operated by ANY master keys or other change keys in the system, they are referred to as “single keyed” and given symbols SKD1, SKD2, etc.

When all higher levels of master keys are to be disallowed, suffix (NMK) to the symbol of the key which is to operate. This means “not master keyed” and can be applied to any level in the system. Cylinder AA1 (NMK) is operated by AA1 only. The AA master and A grand are blocked from operation. Cylinder AA (NMK) would be operated by the AA master only. Grand A does not operate.



# How to specify master keying

(continued)

## 4-Level master keying systems

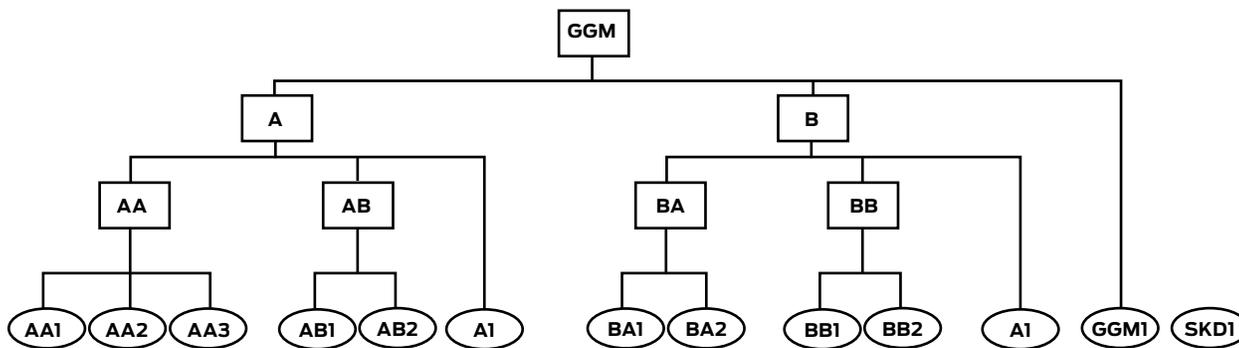
### To specify a great grand master key system (4 levels of keying)

The great grand master key is assigned the symbol GGM. The rest of the symbols are the same as those in 3-level systems. The GMKs are assigned single letters, e.g. A, B, C, D, etc. Caution: Never use X for a grand master key due to the confusion which will result with cross keying symbols presented on the next page.

Masters under each GMK are assigned two letters, the first of which is the same as its respective grand master key. Change key numbers come after the letters. Changes under the grand (A1, B1, etc.) and masters beyond AZ are handled exactly as in the 3 level system already described. Changes directly under a grand are also handled as illustrated in the 3-level system. For changes directly under the GGM with no

intermediate level masters, the change number is added directly to GGM as shown by the example GGM1 in the schematic. When locks are required which are not operated by ANY master keys or other change keys in the system, they are referred to as "single keyed" and given symbols SKD1, SKD2, etc.

When all higher levels of master keys are to be disallowed, suffix (NMK) to the symbol of the key which is to operate. This means "not master keyed" and can be applied to any level in the system. Cylinder AA1(NMK) is operated by AA1 only. The AA master, A grand and GGM are all blocked from operation. Cylinder AA(NMK) is operated by the AA master only. Grand A and the GGM do not operate. Cylinder A(NMK) would be operated by the A grand only, without the GGM.



### Selective master keys

It is often useful in large keying systems to issue a high level master key to maintenance personnel which allows access across all master and grand master key boundaries of a keying system. A selective master key is usually very close to the system's top master key, both physically and through its realm of access. Nevertheless, it must be blocked from operating in many areas.

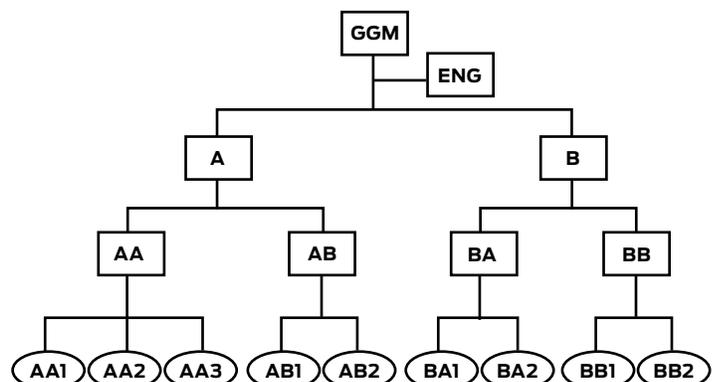
To designate that a lock be operated by a selective master key, suffix the symbol in parentheses to the standard symbol. Example: AA1 (ENG). This must be added every time the selective key is to operate and left off whenever the selective key is NOT to operate. For instance, you may lay out a system in which key AA1 is to operate two different offices. Inside one of them is an electrical cabinet which must be accessible to maintenance personnel carrying the ENG key. That lock must be specified as AA1 (ENG) while the lock for the other office must be specified as AA1. Change keys directly under the selective key, such as ENG1, are operated by all higher level keys, such as GGM.

Like cross keying, a selective master key is a convenience feature which decreases the security of the cylinders it operates and limits the expansion and flexibility of the overall keying system.

### The most common names and symbols for selective master keys

ENG=Engineer's key  
JAN=Janitor's key  
GRD=Guard's key

ATT=Attendant's key  
HKP=Housekeeper's key  
MAIN=Maintenance key



# How to specify master keying

(continued)

## Cross keying

### Convenience may reduce cylinder security and hinder system expansion

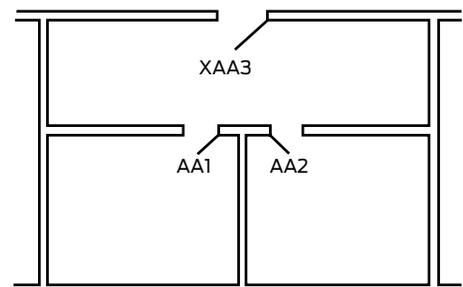
Whenever two or more different keys such as AA1 and AA2 are both required to operate the same cylinder, the cylinder's security is reduced. This is called cross keying. When the cross keying occurs under all the same higher level keys, such as AA1 and AA2, it is known as controlled cross keying. When it combines keys under different higher level keys, such as AA1 and AB1, it is known as uncontrolled cross keying.

In addition to reducing the security of the cylinder, cross keying usually imposes limits on the flexibility and expansion of the overall keying system. This is especially true of uncontrolled cross keying. For these reasons, it is strongly recommended to allow personnel to carry more than one key. Cross keying should be discouraged whenever possible. However, when cross keying is required, it is specified as follows, and should be summarized at the beginning of each order.

### Case #1

Cylinder requires its own change key. The illustration depicts part of a small medical building where two doctors share a common reception area. The receptionist gets the AA3 key. Each doctor carries a key which operates only one office, but is also cross keyed into the entrance from the corridor.

Determine the symbol of the change key (example: AA3). Then prefix the letter X (example: XAA3). Then list all keys which are to operate in an "operated by..." phrase. Example. "XAA3 operated by AA1, AA2, AA and A". Note that X is a cylinder specification only. The keys for cylinder XAA3 are designated AA3.

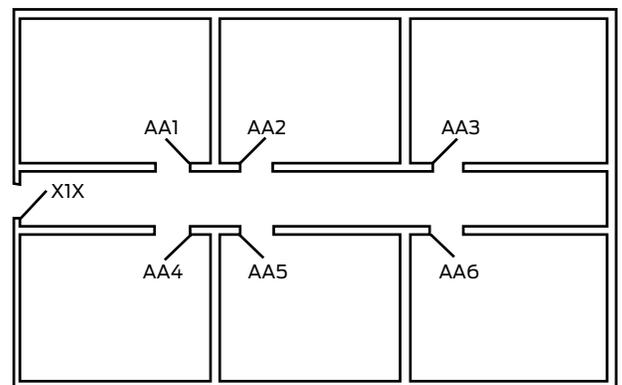


XAA3 Operated by AA1, AA2, AA and A

### Case #2

A cylinder does NOT require its own change key. This illustration depicts a section of a floor in a dormitory. Each student's bedroom key operates the hall door lock. There is no need to construct a key which operates only the hall door.

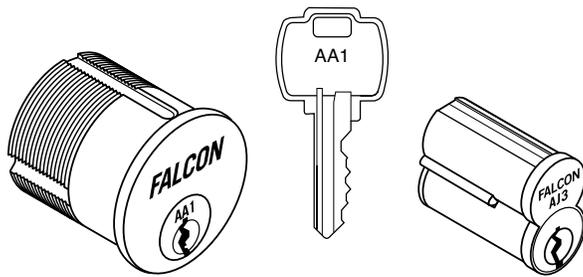
In this case, place an X at both the beginning and end of the symbol and a number between them. Example: X1X, X2X, etc. Again, always include the "operated by..." phrase with a complete listing of key symbols to operate.



X1X Operated by AA1 through AA6, AA and A

# Key and cylinder marking

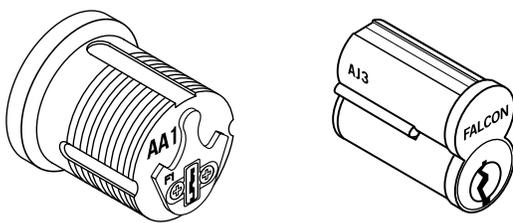
With these options, keys and/or cylinders are stamped with the key symbol (code). This tells how the cylinder is keyed, eliminating trial and error. Lock mix-ups during installation or key mix-ups afterward are less likely to happen - and easier to straighten out if they do. For example, the symbol AA1 shown in the illustration identifies the lock to be operated by grand master key A, master key AA and change key AA1. Upon written authorization from the building owner to an authorized Falcon distributor, a bitting list can be furnished for each job to translate the symbols into key bittings. If a key is lost, a replacement key can be ordered by number from the Falcon distributor.



## Visual key control (VKC)

### For greater convenience

The key symbol is stamped on the plug face or other visible portion of the front of the cylinder. This makes identification fast and convenient. The disadvantage is that stolen or lost keys can be easily matched to the locks they operate. Also, restamping cylinders when they are rekeyed results in damage to the finish.



## Concealed key control (CKC)

### For greater security

For greater security, specify CKC on the cylinders. The key symbol is stamped in a concealed location, such as the rear of the cylinder or the side of an interchangeable core. It is not visible to the general occupants of the building but can be accessed by authorized personnel upon removal of the cylinder or core.

# Standard cylinders

## Conventional and auxiliary cylinders

### Key-in-knob and lever cylinders

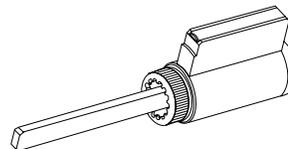
Regular function knobs and levers lockset	Pins	Cylinder
B except 611 function	5-pin	A23155-02
B except 611 function	6-pin	A23165-02
B611	5-pin	A23151-06
B611	6-pin	A23161-06
T381 Inside	5-pin	A23151-06
T381 Inside	6-pin	A23161-06
T381 Inside	7-pin	A23171-06
T571	5-pin	A23151-07
T571	6-pin	A23161-07
T571	7-pin	A23171-07
T all other functions	5-pin	A23151-05
T all other functions	6-pin	A23161-05
T all other functions	7-pin	A23171-05
W except 561 function (lever)	6-pin	Q330-154
W561 (lever)	6-pin	Q330-155
W except 561 function knob	6-pin	Q330-238
W561 (knob)	6-pin	Q330-246
X 561 -E and T designs	5-pin	A23151-00
X 561 -E and T designs	6-pin	A23161-00
X 411, 501, 511, 521, 581-E and T designs	5-pin	A23152-00
X 411, 501, 511, 521, 581-E and T designs	6-pin	A23162-00
X 411, 501, 511, 521, 581-H designs	5-pin	A23152-02
X 411, 501, 511, 521, 581-H designs	6-pin	A23162-02
X 411, 501, 511, 521, 581-H designs	7-pin	A23172-02
X 561-H designs	5-pin	A23151-02
X 561-H designs	6-pin	A23161-02
X 571-E and T designs	5-pin	A23151-02
X 571-E and T designs	6-pin	A23161-02
X 571-H designs	5-pin	A23151-03
X 571-H designs	6-pin	A23161-03
X 571-H designs	7-pin	A23171-02
X561-H designs	7-pin	A23171-01
Y all functions	5-pin	A23155-00
Y all functions	6-pin	A23165-00

### Auxiliary lock cylinders

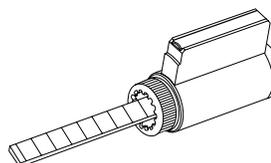
Deadlock lazy tailpieces lockset	Pins	Cylinder
D111, D141	5-pin	Q500-064
D121	5-pin	Q500-066
D131	5-pin	Q500-070
D111, D141	6-pin	Q500-021
D121	6-pin	Q500-058
D131	6-pin	Q500-054
D111, D141	7-pin	Q500-046
D121	7-pin	Q500-059
D211, D241	5-pin	Q500-067
D221	5-pin	Q500-069
D231	5-pin	Q500-072
D211, D241	6-pin	Q500-010
D221	6-pin	Q500-056
D231	6-pin	Q500-012
D211, D241	7-pin	Q500-014
D221	7-pin	Q500-057
Padlock	5-pin	A23151-01
Padlock	6-pin	A23161-01
Padlock	7-pin	A23171-00

### "H" Series cylinder

Function	Pins	Cylinder
H 511 knobs	5-pin	A30040-00
H 511 knobs	6-pin	A30040-01
H all other functions and designs	5-pin	A30028-00
H all other functions and designs	6-pin	A30028-01



Specify keyway.  
Specify finishes: 606, 626



**Sliding door cylinder**  
For use in Adams Rite 4024 and 4026 cylinder pulls typically used in patio doors.

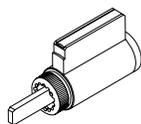
**950:** Specify 5, 6, or 7-pin

Note: Specify finish: 606, 626

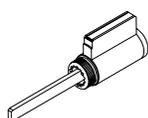
# Standard cylinders

## Competitor keyways

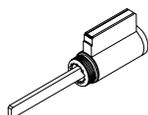
T Series	Cylinders
Corbin 60 O-bitted	A23167-011
Corbin 60 KD	A23167-11D
Corbin Russwin L4 O-bitted	A23174-011
Corbin Russwin L4 KA4	A23174-11A
Russwin D1 O-bitted	A23168-011
Russwin D1 KD	A23168-11D
Sargent LA O-bitted	A23166-011
Sargent LA KD	A23166-11D
Schlage C O-bitted	A23160-011
Schlage C KA4	A23160-11A
Schlage C KD	A23160-11D
Schlage E O-bitted	A23159-011
Yale EIR (8) Para O-bitted	A23169-011
Yale EIR (8) Para KD	A23169-11D
Corbin 60 O-bitted	A23167-012
Corbin 60 KD	A23167-12D
Corbin Russwin L4 O-bitted	A23174-012
Russwin D1 O-bitted	A23168-012
Russwin D1 KD	A23168-12D
Sargent LA O-bitted	A23166-012
Sargent LA KD	A23166-12D
Schlage C O-bitted	A23160-012
Schlage C KA4	A23160-12A
Schlage C KD	A23160-12D
Schlage E O-bitted	A23159-012
Yale EIR (8) Para O-bitted	A23169-012
Yale EIR (8) Para KD	A23169-12D
Corbin 60 O-bitted	A23167-000
Corbin 60 KD	A23167-0KD
Corbin Russwin L4 O-bitted	A23174-000
Russwin D1 O-bitted	A23168-000
Russwin D1 KD	A23168-0KD
Sargent LA O-bitted	A23166-000
Sargent LA KD	A23166-0KD
Schlage C O-bitted	A23160-000
Schlage C KA4	A23160-0KA
Schlage C KD	A23160-0KD
Schlage E O-bitted	A23159-000
Yale EIR (8) Para O-bitted	A23169-000
Yale EIR (8) Para KD	A23169-0KD



**T381 Inside**

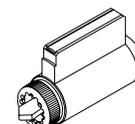


**T571**

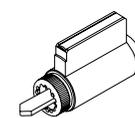


**T Series**  
All other functions

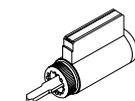
X Series	Cylinders
Corbin 60 O-bitted	A23167-001
Corbin 60 KD	A23167-1KD
Corbin Russwin L4 O-bitted	A23174-001
Russwin D1 O-bitted	A23168-001
Russwin D1 KD	A23168-1KD
Sargent LA O-bitted	A23166-001
Sargent LA KD	A23166-1KD
Schlage C O-bitted	A23160-001
Schlage C KA4	A23160-1KA
Schlage C KD	A23160-1KD
Schlage E O-bitted	A23159-001
Yale EIR (8) Para O-bitted	A23169-001
Yale EIR (8) Para KD	A23169-1KD
Corbin 60 O-bitted	A23167-005
Corbin 60 KD	A23167-5KD
Corbin Russwin L4 O-bitted	A23174-005
Russwin D1 O-bitted	A23168-005
Russwin D1 KD	A23168-5KD
Sargent LA O-bitted	A23166-005
Sargent LA KD	A23166-5KD
Schlage C O-bitted	A23160-005
Schlage C KA4	A23160-5KA
Schlage C KD	A23160-5KD
Schlage E O-bitted	A23159-005
Yale EIR (8) Para O-bitted	A23169-005
Yale EIR (8) Para KD	A23169-5KD
Corbin 60 O-bitted	A23167-006
Corbin 60 KD	A23167-6KD
Corbin Russwin L4 O-bitted	A23174-006
Russwin D1 O-bitted	A23168-006
Russwin D1 KD	A23168-6KD
Sargent LA O-bitted	A23166-006
Sargent LA KD	A23166-6KD
Schlage C O-bitted	A23160-006
Schlage C KA4	A23160-6KA
Schlage C KD	A23160-6KD
Schlage E O-bitted	A23159-006
Yale EIR (8) Para O-bitted	A23169-006
Yale EIR (8) Para KD	A23169-6KD
Corbin 60 O-bitted	A23167-003
Corbin 60 KD	A23167-3KD
Corbin Russwin L4 O-bitted	A23174-003
Russwin D1 O-bitted	A23168-003



**561**  
Elite and Troy

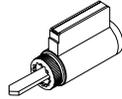


**411, 501, 511, 521, 581**  
Elite and Troy



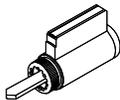
**X411, 501, 511, 521, 581**  
Hana

<b>X Series (continued)</b>	<b>Cylinders</b>
Russwin D1 KD	A23168-3KD
Sargent LA O-bitted	A23166-003
Sargent LA KD	A23166-3KD
Schlage C O-bitted	A23160-003
Schlage C KA4	A23160-3KA
Schlage C KD	A23160-3KD
Schlage E O-bitted	A23159-003
Yale E1R (8) Para O-bitted	A23169-003
Yale E1R (8) Para KD	A23169-3KD
Corbin 60 O-bitted	A23167-004
Corbin 60 KD	A23167-4KD
Corbin Russwin L4 O-bitted	A23174-004
Russwin D1 O-bitted	A23168-004
Russwin D1 KD	A23168-4KD
Sargent LA O-bitted	A23166-004
Sargent LA KD	A23166-4KD
Schlage C O-bitted	A23160-004
Schlage C KA4	A23160-4KA
Schlage C KD	A23160-4KD
Schlage E O-bitted	A23159-004
Yale E1R (8) Para O-bitted	A23169-004
Yale E1R (8) Para KD	A23169-4KD



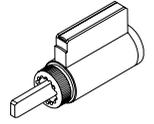
**X571**  
Elite and Troy

**X561**  
Hana

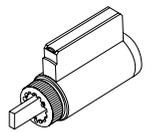


**X571**  
Hana

<b>B Series</b>	<b>Cylinders</b>
Corbin 60 O-bitted	A23167-011
Corbin 60 KD	A23167-11D
Corbin Russwin L4 O-bitted	A23174-011
Russwin D1 O-bitted	A23168-011
Russwin D1 KD	A23168-11D
Sargent LA O-bitted	A23166-011
Sargent LA KD	A23166-11D
Schlage C O-bitted	A23160-011
Schlage C KA4	A23160-11A
Schlage C KD	A23160-11D
Schlage E O-bitted	A23159-011
Yale E1R (8) Para O-bitted	A23169-011
Yale E1R (8) Para KD	A23169-11D
Corbin 60 O-bitted	A23167-013
Corbin 60 KD	A23167-13D
Corbin Russwin L4 O-bitted	A23174-013
Russwin D1 O-bitted	A23168-013
Russwin D1 KD	A23168-13D
Sargent LA O-bitted	A23166-013
Sargent LA KD	A23166-13D
Schlage C O-bitted	A23160-013
Schlage C KA4	A23160-13A
Schlage C KD	A23160-13D
Schlage E O-bitted	A23159-013
Yale E1R (8) Para O-bitted	A23169-013
Yale E1R (8) Para KD	A23169-13D



**B611**



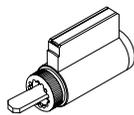
**B Series**  
All other functions

Specify cylinder number, keyway and finish when ordering.

# Standard cylinders

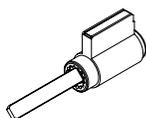
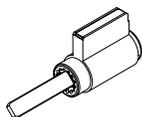
## Competitor keyways (continued)

Y Series	Cylinders
Corbin 60 O-bitted	A23167-008
Corbin 60 KD	A23167-8KD
Corbin Russwin L4 O-bitted	A23174-008
Russwin D1 O-bitted	A23168-008
Russwin D1 KD	A23168-8KD
Sargent LA O-bitted	A23166-008
Sargent LA KD	A23166-8KD
Schlage C O-bitted	A23160-008
Schlage C KA4	A23160-8KA
Schlage C KD	A23160-8KD
Schlage E O-bitted	A23159-008
Yale E1R (8) Para O-bitted	A23169-008
Yale E1R (8) Para KD	A23169-8KD

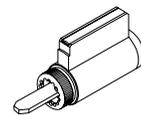


**Y Series**  
All functions  
and designs

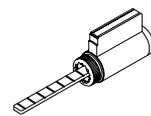
D Series	Cylinders
Corbin Russwin L4 O-bitted	Q033-079
Russwin D1 O-Bitted	Q033-074
Russwin D1 KD	Q033-074
Schlage C O-bitted	Q033-071
Schlage C KA4	Q033-071
Schlage C KD	Q033-071
Schlage E O-bitted	Q033-068
Yale E1R (8) Para KD	Q033-076
Corbin Russwin L4 O-bitted	Q033-078
Russwin D1 O-bitted	Q033-073
Russwin D1 KD	Q033-073
Schlage E O-bitted	Q033-067
Corbin 60 O-bitted	Q033-077
Corbin 60 KD	Q033-077
Russwin D1 O-bitted	Q033-072
Russwin D1 KD	Q033-072
Schlage C O-bitted	Q033-070
Schlage C KA4	Q033-070
Schlage C KD	Q033-070
Schlage C O-bitted	Q033-069
Schlage C KA4	Q033-069
Schlage C KD	Q033-069
Yale E1R (8) Para KD	Q033-075



H Series	Cylinders
Corbin 60 O-bitted	A23167-007
Corbin 60 KD	A23167-7KD
Corbin Russwin L4 O-bitted	A23174-007
Russwin D1 O-bitted	A23168-007
Russwin D1 KD	A23168-7KD
Sargent LA O-bitted	A23166-007
Sargent LA KD	A23166-7KD
Schlage C O-bitted	A23160-007
Schlage C KA4	A23160-7KA
Schlage C KD	A23160-7KD
Schlage E O-bitted	A23159-007
Yale E1R (8) Para O-bitted	A23169-007
Yale E1R (8) Para KD	A23169-7KD
Corbin 60 O-bitted	A23167-010
Corbin 60 KD	A23167-10D
Corbin Russwin L4 O-bitted	A23174-010
Russwin D1 O-bitted	A23168-010
Russwin D1 KD	A23168-10D
Sargent LA O-bitted	A23166-010
Sargent LA KD	A23166-10D
Schlage C O-bitted	A23160-010
Schlage C KA4	A23160-10A
Schlage C KD	A23160-10D
Schlage E O-bitted	A23159-010
Yale E1R (8) Para O-bitted	A23169-010
Yale E1R (8) Para KD	A23169-10D

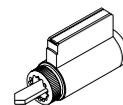


**H 511**  
All knobs



**H Series**  
deadbolt

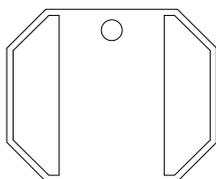
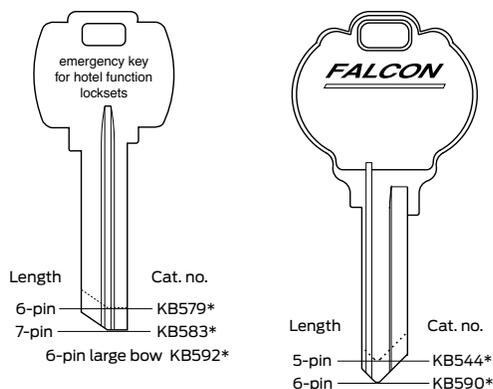
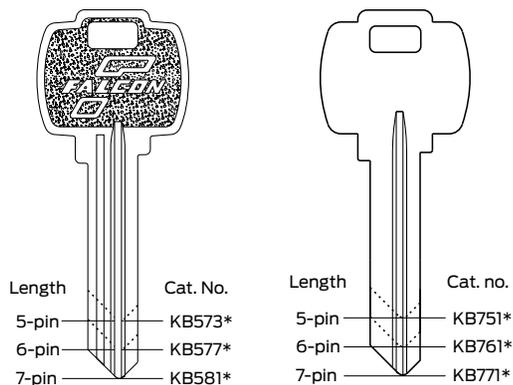
Padlocks	Cylinders
Corbin 60 O-bitted	A23167-002
Corbin 60 KD	A23167-2KD
Corbin Russwin L4 O-bitted	A23174-002
Russwin D1 O-bitted	A23168-002
Russwin D1 KD	A23168-2KD
Sargent LA O-bitted	A23166-002
Sargent LA KD	A23166-2KD
Schlage C O-bitted	A23160-002
Schlage C KA4	A23160-2KA
Schlage C KD	A23160-2KD
Schlage E O-bitted	A23159-002
Yale E1R (8) Yale Para O-bitted	A23169-002
Yale E1R (8) Yale Para KD	A23169-2KD



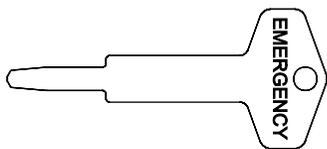
Padlocks

# Standard cylinders

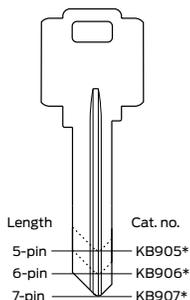
## Key blanks and keys



**Access bow**  
2" access bow is made of blue plastic and meets requirements of Title 24 of the California Code for Handicapped.



**Emergency tool**  
012727-000-30 for Mortise privacy locks M301, M311, M321



**Access key blank**  
After cutting, press into blue plastic bow shown above. Order blanks and bows separately.

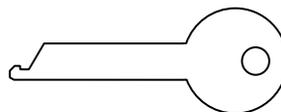
### Key blanks (multiples of 50 except where noted)

Description	Standard	Plain both sides
5-pin standard	KB573*	KB751*
6-pin standard	KB577*	KB761*
7-pin standard	KB581*	KB771*
5-pin large bow (25/box)	KB544*	—
6-pin large bow (25/box)	KB590*	—
6-pin emergency MK	KB579*	—
7-pin emergency MK	KB583*	—
6-pin EMK, large bow (25/box)	KB592*	—
5-pin blade for access bow	KB573-1*	—
6-pin blade for access bow	KB577-1*	—
7-pin blade for access bow	KB581-1*	—
6-pin Schlage C blank	Q330-215	—
Plastic access bow only	001911-001-70	—
Blockokey® construction key	KB525	—

\* Suffix key section to catalog number. Example: KB573G

### Cut keys

Description	Standard	Plain both sides
5-pin	KB574	KB794
6-pin	KB578	KB797
7-pin	KB582	KB799
Large bow 5-pin	KB545	—
Large bow 6-pin	KB591	—
5-pin construction MK	KB565	—
6-pin construction MK	KB566	—
7-pin construction MK	KB567	—
6-pin emergency MK	KB580	—
7-pin emergency MK	KB584	—
6-pin EMK, large bow	KB593	—
Handicap bow 5-pin	KB905	—
Handicap bow 6-pin	KB906	—
Handicap bow 7-pin	KB907	—
6-pin Schlage C	330055	—
6-pin Schlage split key	Q330-276	—
Blockokey® construction key	KB531	—



**KB536**  
Removal tool for Blockokey construction keying key block.

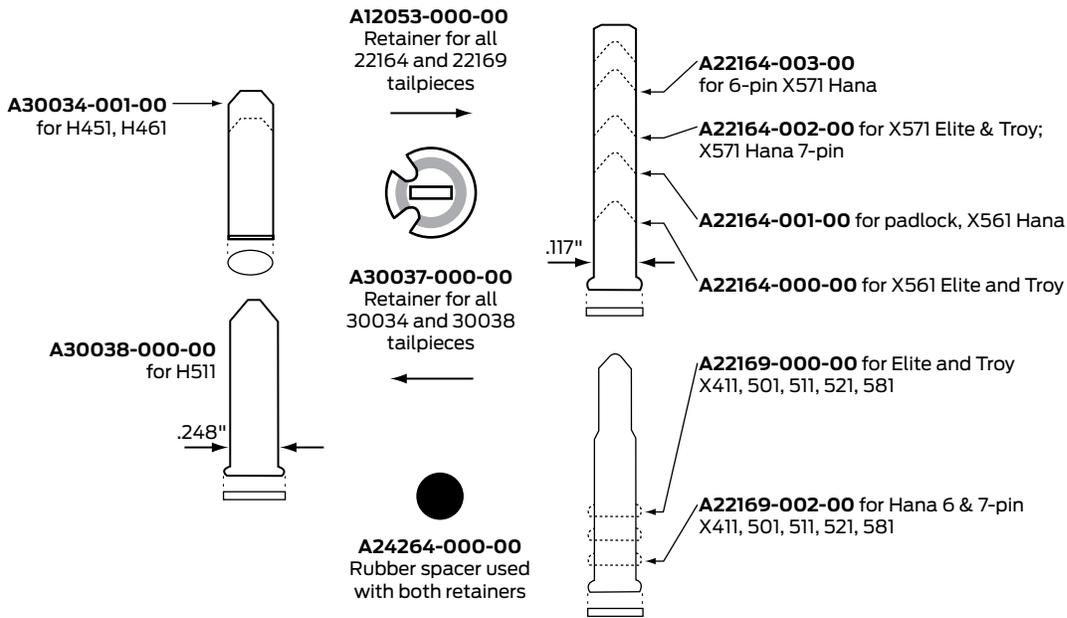
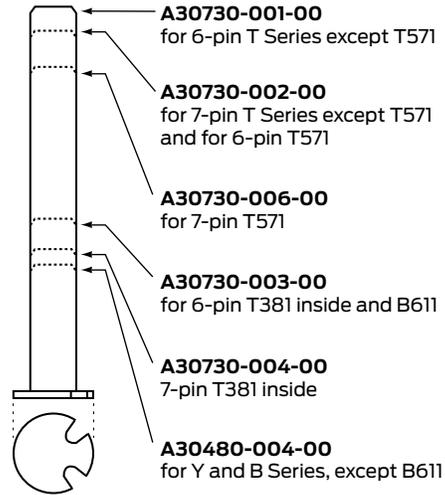
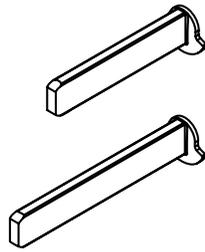
# Standard cylinders

## Tailpieces



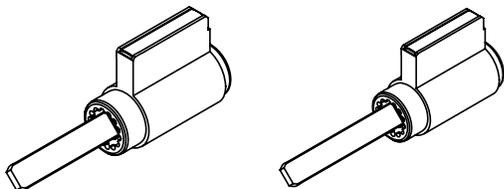
### Kit 1389

Contains cap tool and most parts on this page, except hotel function and 7-pin tailpieces



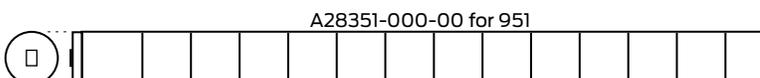
## D Series lazy tailpiece, standard cylinder

For 7-pin applications, break tailpiece to next shorter length.



## Rim cylinder tailpieces

With 008355 Retainer



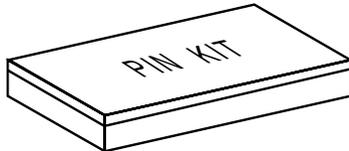
# Standard cylinders

## Accessories

### Service equipment and supplies

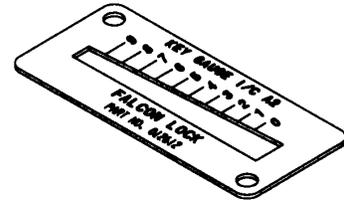
#### Pin kits

- 1418 Standard  
(includes key gauge, follower and cylinder cap tool)
- 1417 Restricted keyways  
(includes key gauge, follower and cylinder cap tool)



#### Key gauge

- 030113-000-60 Standard keyways  
.018" increment
- 042613-000-60 Restricted keyways  
.025" increment



### Kit refills: pins and springs

- A08553-00-00 Bottom pins for standard keyways\*
- A08580-00-00 Master pins for standard keyways\*
- A08552-000-00 Top pins, 100-pack
- A08554-000-00 Tumbler springs, 100-pack

\*sizes 2 thru 9, 100-pack

### Miscellaneous cylinder parts

- A02750-000-00 Cam screw 100-pack
- 031100-000-30 Hex nut for cam lock and mortise cylinders
- 012162-000-10 Cylinder cap for Falcon keyway cylinders only.
- A12165-000-00 Cap retaining pin for Falcon keyway cylinders only, 10-pack
- A12166-000-00 Spring for retaining pin for Falcon keyway cylinders only, 100-pack

### Other service equipment

- 1416 Cylinder cap tool - steel
- 1421 Plug follower

# Interchangeable core

## Advantages

Interchangeable core (I/C) offers maximum flexibility to the building owner. Whenever a key is lost or stolen, locks can be rekeyed quickly by non-locksmith personnel. All it takes is the special "control" key. This key is used to remove and install all cores in the system. Just go to the door, remove the old core and install the new one with the control key. Security is regained in seconds!

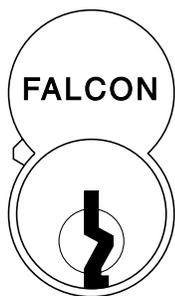
Falcon's interchangeable cores and I/C locksets are compatible with other small format interchangeable core (SFIC) products, such as Best and Arrow. Use our locks with their cores and vice versa. In most cases Falcon can even furnish cores master keyed into your existing Best or Arrow key system. Just include a copy of your existing bitting list with the order.



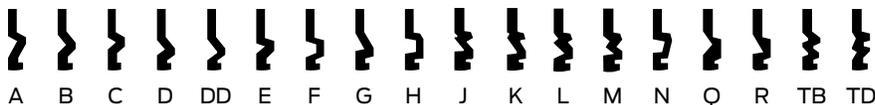
### Construction cores

Interchangeable core jobs requiring construction keying are furnished with temporary cores which are keyed alike to a combination unrelated to the permanent system's master key. When the building is turned over to the owner, the permanent cores are installed and the construction cores are returned to Falcon Lock for credit. Orders must include the name and address of the person to whom the construction keys and permanent master and change keys should be sent.

## Interchangeable core keyways



The "A" keyway is standard for I/C products and will be supplied unless otherwise specified. Falcon keyways shown here are equivalent to Best and Arrow I/C keyways of the same names.



Consult factory for restricted keyways not listed here.

When ordering locks or cores master keyed into existing Best, Arrow or other compatible I/C systems, a copy of the bitting list for the existing system is required with the order.

## A2, A3 and A4 Systems

Falcon master keying uses the A2 System (depths 0-9) standard. We can provide cores into competitors' A4 (depths 0-5) key systems but we generate new A4 systems solely at the discretion of our Key Systems Department. We do not support the A3 System (Depths 0-6). However, any Falcon core can be combined to A3 specs in the field.

# Interchangeable core

(continued)

## Cores

**Description:** Uncombined cores are supplied without pins, springs or keys. May be keyed into A2, A3 and A4 Systems in the field. Combined cores are keyed and ready to install, and are furnished with two change keys each. A2 System standard, A4 special. See page 20 for details.

**Packaging:** Uncombined cores are packed 20 per box.

**Finishes:** Standard: 606 and 626.

**Special Order:** 605, 613 and 625.

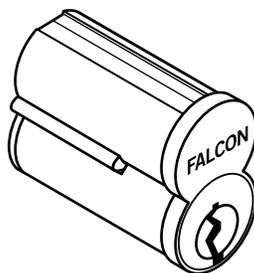
**Logo:** Standard - Cores and keys are supplied with the Falcon logo.

**Optional:** Combined cores ordered without logo are furnished with plain (non-embossed) keys.

### Interchangeable core

Available with Falcon style spring cover (shown) or Best® style individual pin chamber caps. See table for product numbers.

Standard cores use a single spring cover to seal pin chambers.



With Best® style capping, each pin chamber is sealed with its own individual cap.



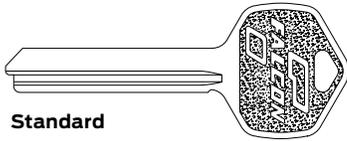
### Regular core (suffix keyway to number)

	Uncombined		Combined	
	6-pin	7-pin	6-pin	7-pin
Standard	C646	C647	C606	C607
Best® style capping	CB846	CB847	CB806	CB807
No logo	C648	C649	C608	C609
No logo, Best® capping	CB848	CB849	CB808	CB809

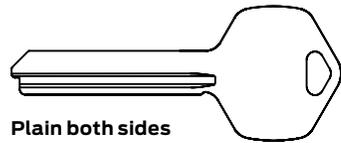
Note: Specify core number, keyway and finish when ordering.

# Interchangeable core

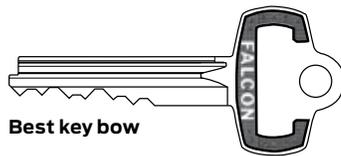
## Keys and key blanks



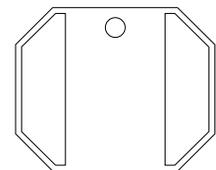
**Standard**



**Plain both sides**  
(non-embossed)



**Best key bow**



**Access bow**

2" access bow is made of blue plastic and meets requirements of Title 24 of The California Code for Handicapped.

### Key Blanks (suffix key section)

Description	Standard	Plain both sides
Standard	KB628*	KB718*
Best style	KB800	KB801
Stamped CONTROL	KB608*	KB744*
MA Series EMERGENCY	KB737*	KB748*
Best style MA Series EMERGENCY	KB804	KB805
Blade for 2" access bow	KB633*	n/a
Plastic access bow only	001911-001-70	n/a

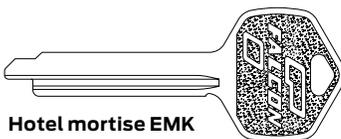
### Cut key (suffix keyway)

Description	Standard		Plain both sides	
	6-pin	7-pin	6-pin	7-pin
Standard	KB632-1	KB632-2	KB673-1	KB673-2
Best Style	KB807-1	KB807-2	KB809-1	KB809-2
CONTROL	KB609-1	KB609-2	KB778-1	KB778-2
Best Style CONTROL	KB811-1	KB811-2	KB813-1	KB813-2
MA Series EMERGENCY	KB738-1	KB738-2	KB779-1	KB779-2
Best Style MA Series EMERGENCY	KB814-1	KB814-2	KB817-1	KB817-2
2" access bow	KB916	KB916-1	n/a	n/a

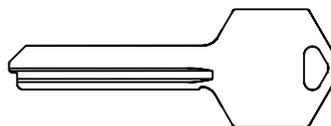
\* Extensive key systems sometimes require more than one keyway. Double, triple, quadruple and quintuple-milled keys must then be furnished for top master and control keys. Only certain milling combinations are practical. Common multi-section keys include AB, AE, DE, EF, FG, AEG, DEF, EFG, DEFG, JKLM, ADEFG.

## Emergency key blanks

For C262 and C265 hotel function mortise cylinders.

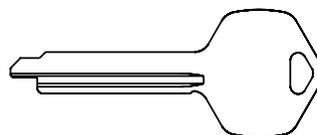


**Hotel mortise EMK**



**Access key blank**

After cutting, press into blue plastic bow shown above. Order blanks and bows separately.



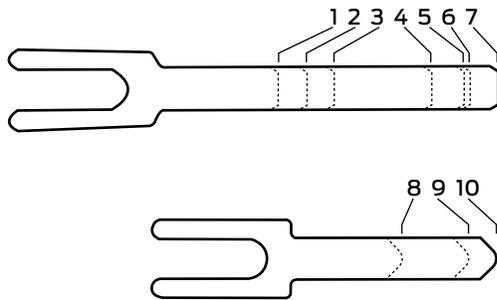
**Plain both sides**  
(non-embossed)

# Interchangeable core

## Tailpieces and construction keying

### Cylindrical lock tailpieces

Throw members shown actual size.

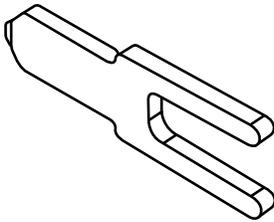


#### B, RU, T, W and X Series

Ref.	Length	Part number	Application
1	1.40"	022175-000-30	X Series, except X571
2	1.53"	030739-003-30	RU, T381 inside only, 7-pin, B611
3	1.69"	030739-002-30	RU, T381 inside only, 6-pin, B611
4	2.22"	030739-005-30	RU, T571 7-pin
5	2.37"	030739-004-30	RU, T571 6-pin
6	2.41"	030739-001-30	RU, T Series 7-pin except T381 inside and T571
7	2.56"	030739-000-30	RU, T Series 6-pin except T381 inside and T571
8	1.32"	031731-000-30	B Series 6 and 7-pin, except B611
9	1.66"	022175-002-30	X571 7-pin, B611 7-pin
10	1.81"	022175-001-30	X571 6-pin
11	X.XX"	Q330-164	W Series 501, 511, 581, 711 functions
12	X.XX"	Q330-165	W Series 561 function

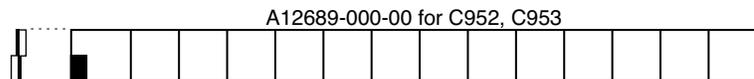
### Y Series

Q001-055



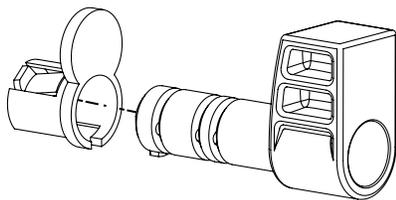
### Rim cylinder tailpiece

With 012698 retainer



### “Disposable construction” core

1408 Disposable small format  
Interchangeable construction core



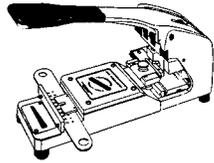
For more options and information on construction keying, please consult page 16 of this catalog.

# Interchangeable core

## Accessories

### Key biting punch

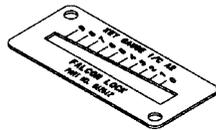
1208 A2 system



### Key gauge

012612-000-60 A2 system

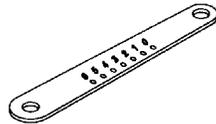
030425-000-60 A4 system



### Depth bars for key machine

031033-000-30 A3 system

031034-000-30 A4 system



### Miscellaneous I/C parts

A12663-001-00 Drive pins, package of ten (10)

A12664-010-00 Drive washer, package of ten (10)

### Kit Refills: Pins, springs, etc. (100-pack except where noted)

A12635-0xx-00 A2 top pins, sizes 2 thru 19: replace "xx" with size

A12636-00x-00 A2 bottom pins, sizes 0 thru 9: replace "x" with size

A30375-0xx-00 A4 top pins, sizes 1 thru 11: replace "xx" with size

A30376-00x-00 A4 bottom pins, sizes 0 thru 5: replace "x" with size

A12637-000-00 Tumbler spring

A12637-500-00 Tumbler spring, 500-pack

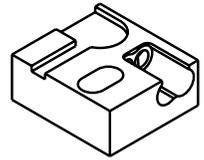
A12638-000-00 21C caps for Best® style cores, 500-pack

A12639-001-00 Spring cover, 6-Pin

A12639-002-00 Spring cover, 7-Pin

### Stamping fixture

1398 Holds one key and one core for face or side marking



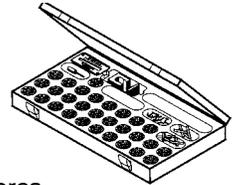
### Pin kit

1404 A2 System, Falcon spring cover cores (standard)

1391 A2 System, Best® style capping

1403 A4 System, Falcon spring cover cores

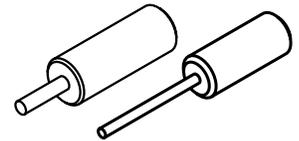
1390 A4 System, Best® style capping



### Capping pin and ejector pin

1392 Capping pin, Best® style

1405 Ejector tool



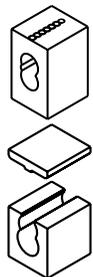
### Capping blocks

1411 Set, Falcon spring cover cores

1414 Block only, Falcon spring cover cores

1415 Tapping plate - new style (dovetail)

1393 Capping block, Best® style capping



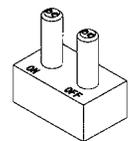
### Mortise accessories

#### Mortise cam changing tools

1400 Tool set with staking punch

1401 Tool only

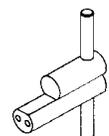
1402 Cam staking punch only



#### Mortise cylinder wrench

1407 Verifies cam operation and preserves cylinder finish during installation

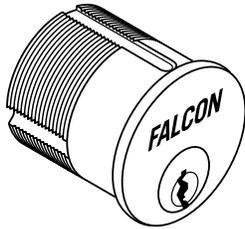
002807-000-30 Mortise I/C cylinder security screw



# Mortise cylinders

Mortise, rim and cam lock cylinders

Mortise, rim and cam lock for standard cylinders



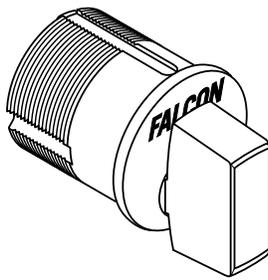
Note: Specify finish - 605, 606, 613, 626, 629, 630

### Mortise cylinder

900 Series cylinders are furnished with 5622-STD and 250 Series with 5622-STD unless otherwise specified.

See table for product numbers.

See pages 24-25 for optional cams and 26-27 for collars.



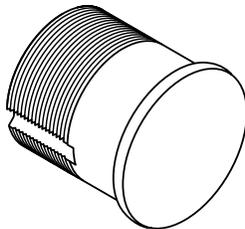
Note: Specify finish - 605, 606, 613, 626, 629, 630

### Thumbturn cylinder

Furnished with 5622-STD except 970 Series furnished with 5622-STD unless otherwise specified.

See table for product numbers.

See pages 24-25 for optional cams and 26-27 for collars.



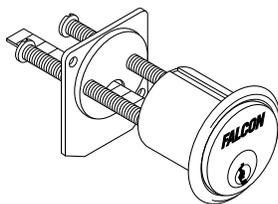
Note: Specify finish - 605, 606, 613, 625, 626

### Dummy cylinder

Used to plug hole in door where lock remains but cylinder operation is no longer needed.

**984D** 1"

**985D** 1 1/8"



Note: Specify finish - 605, 606, 613, 626, 629, 630

### Rim cylinder

Horizontal tailpiece standard. May be changed to vertical orientation in the field. Furnished with collar, back plate and 12-24 break off screws.

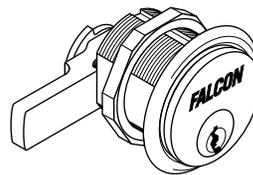
**951** Specify 5, 6 or 7-pin

### Keyed mortise cylinders

Catalog number	Length	Pins	Application
985	1 1/8"	5 or 6	Generic
986	1 1/4"	5 or 6	Generic
987	1 3/8"	6 or 7	Generic
988	1 1/2"	6 or 7	Generic
990	1 3/4"	6 or 7	Generic
992	2"	6 or 7	Generic
250	1 1/8"	6	MA451 hotel function
251	1 1/4"	6	MA451 hotel function
252	1 3/8"	6	MA451 hotel function
253	1 3/8"	7	MA451 hotel function

### Thumbturn mortise cylinders

Catalog number	Length	Pins	Application
985T	1 1/8"	—	Generic
986T	1 1/4"	—	Generic
973	1 1/8"	—	M911 Classroom thumbturn, RH (CCW)
974	1 1/8"	—	M911 Classroom thumbturn, LH (CW)

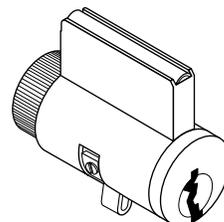


Note: Specify finish - 605, 606, 613, 626, 629, 630

### Cam lock - heavy cam

Includes stop washers for rigid and lazy cam operation. Field reversible for RH or LH doors by positioning of stop screw on back of housing. Requires 1 3/8" cylinder hole and fits doors up to 1 1/8" thick.

**945** Specify 5 or 6-pin



Note: Specify finish - 606, 626

### Mailbox cylinder

U.S. Postal regulations prohibit master keying of mailbox locks. Mailboxes must be ordered specifically for Falcon cylinders from the mailbox manufacturer.

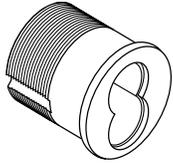
**954** Specify 5, 6 or 7-pin

Specify cylinder number, keyway and finish when ordering.

# Mortise cylinders

Mortise, rim and cam lock housing

## Mortise, rim and cam lock for standard cylinders



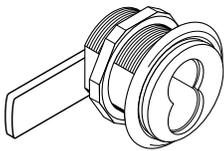
Note: Specify finishes - 605, 606, 613, 626, 629, 630

### Mortise cylinder housing

Standard housings furnished with 5622-IC and hotel function housings furnished with 5622-IC. See table for product numbers.

See pages 24-25 for optional cams and pages 26-27 for collars.

Catalog number	Length	Pins	Application
C987	1 3/8"	6 or 7	Generic
C988	1 1/2"	6 or 7	Generic
C990	1 3/4"	6 or 7	Generic
C992	2"	6 or 7	Generic
C997	1 3/8"	6 or 7	Unassembled, less cam
C262	1 5/8"	6 or 7	MA451 Hotel function RH
C265	1 5/8"	6 or 7	MA451 Hotel function LH

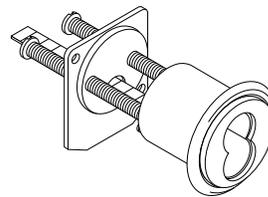


Note: Specify finishes - 605, 606, 613, 626, 629, 630

### Cam lock

Key removable in locked position only. Cam rotates 360° and can be installed for right or left hand operation. Requires 1 3/16" cylinder hole and fits doors up to 1 3/8" thick.

**C943** Specify 6 or 7-pin

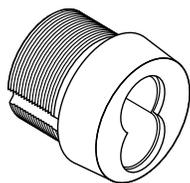


Note: Specify finishes - 605, 606, 613, 626, 629, 630

### Rim cylinder housing

Horizontal tailpiece standard. May be changed to vertical orientation in the field. Furnished with collar, back plate and 12-24 break-off screws.

**C953** Specify 6 or 7-pin

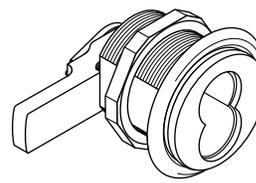


Note: Specify finishes - 605, 606, 613, 625, 626

### Adams rite tapered head mortise cylinder housing

Designed for proper fit without collars on narrow stile aluminum doors. Furnished with #8 Adams Rite cam.

**C977** Specify 6 or 7-pin



Note: Specify finishes - 605, 606, 613, 626, 629, 630

### Cam lock - heavy cam

Includes stop washers for rigid and lazy cam operation. Field reversible for RH or LH doors by positioning of stop screw on back of housing. Requires 1 3/16" cylinder hole and fits doors up to 1 1/8" thick.

**C945** Specify 6 or 7-pin

## How to order

### Less core

Specify catalog number and finish. Example: C987 626

### Complete with core

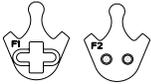
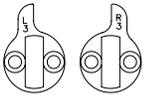
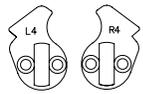
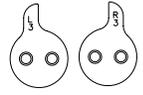
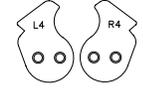
Add keyway, "WIC" and keying instructions. Example: C987 WIC A\* 626 AA12

\* "A" keyway standard. Falcon reserves the right to assign the keyway for new key systems.

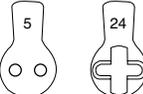
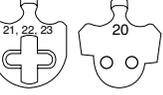
# Mortise cylinders

## Cams

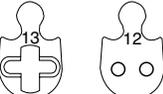
### Falcon

Diagram	Lock	Reference number	Part number	For cylinder
	Falcon MA Series	F1 F2	5622-STD 5622-IC	Conventional I/C
	Falcon MA Series	L3 R3	5620-STD	Conventional, MA381 inside function
	Falcon MA Series	L4 R4	5621-STD	Conventional, MA381 outside function
	Falcon MA Series	L3 R3	5620-IC	I/C, MA381 inside function
	Falcon MA Series	L4 R4	5621-IC	I/C, MA381 outside function

### Falcon exit devices

Diagram	Lock	Reference number	Part number	For cylinder
	Dogging cylinder Install cam upside down.	24 5	A09897-024-00 A12667-003-00	Conventional I/C
	Delta trim for 17C concealed vertical rod for 718 Series trim manufactured prior to July 2011	21 22 23 20	A09894-021-00 A09894-022-00 A09894-023-00 A12667-020-00	Falcon, Ilco, Lori, Schlage Arrow, Sargent & Yale Corbin Russwin I/C

### Schlage

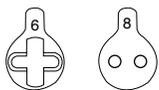
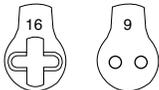
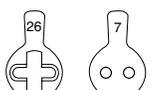
Diagram	Lock	Reference number	Part number	For cylinder
	Schlage L Series	13 12	A09888-000-00 A12667-008-00	Conventional I/C

Note: Each part number indicates a package of 10 cams

# Mortise cylinders

## Cams (continued)

### Other manufacturers

Diagram	Lock	Reference number	Part number	For cylinder
	Adams Rite MS, 4500 and 4700 Series	6 8	A09899-000-00 A12667-001-00*	Conventional I/C
	Adams Rite 4070 deadlock	16 9	A09898-000-00 A12667-002-00	Conventional I/C
	Arrow, Corbin Russwin ML2200 except ML2255 and ML2242 inside	- 11	A20069-000-00 A12667-011-00	Conventional I/C
	Corbin Russwin DL4000 Series	27	A12677-013-00	I/C
	Corbin Russwin master ring black cast iron locks only. Requires brushing A09890-000-00	25	A12667-006-00	Conventional I/C Most exit devices
	Sargent & Yale	26 7	A08867-000-00 A12667-000-00	Conventional I/C
	Sargent 7737	-	A12667-03A-00*	I/C

\* Thick cams require throw pin A12663-003-00

Note: Each part number indicates a package of 10 cams

## Cam assortment kits

### 1396 Standard cylinders

Contains ten each #1, 4 and 13; fifteen #6 and five each #2, 3 and 14 cams, plus 50 cam screws and a plug follower.

### 1397 I/C Mortise cylinders

Contains ten each #5, 7, 10, 11 and 12; twenty #8 and five #15 cams, a supply of throw member pins and plates, and one #1402 staking punch.



# Mortise cylinders

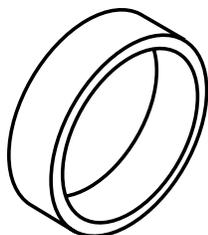
## Cylinder collars

### Standard collars for cylinders ordered separately

Length	Cylinder	Non-AR Cams	AR Cam
1"	984D	A08794-000	—
1 1/8"	250, 965, 966, 973, 974, 985 Series	A08794-000	008876-002
1 1/4"	251, 986 Series	A08794-001	008876-003
1 3/8"	252, 253, 987, C987, C997	A08794-002	008876-004
Longer	C260 Series, (C)988, (C)990, (C)992	A08794-000	008876-000

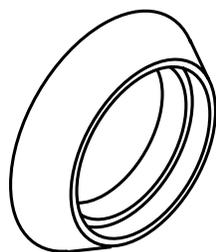
### Escutcheon trim ring

Door thickness	Function	985 1 1/8"	986 1 1/4"	(C)987 1 3/8"	(C)988 1 1/2"
1 1/2"	Single cylinder	—	A08790-000	A08790-001	A08790-002
1 1/2"	Double cylinder	A08790-000	—	—	—
1 3/4"	Single cylinder	—	—	A08790-000	A08790-001
1 3/4"	Double cylinder	—	A08790-000	A08790-001	A08790-002
2"	Single cylinder	—	—	A08790-000	A08790-001
2"	Double cylinder	—	—	A08790-000	A08790-001
2 1/4"	Single cylinder	—	—	—	A08790-000
2 1/4"	Double cylinder	—	—	—	—
2 1/2"	Single cylinder	—	—	—	—
2 1/2"	Double cylinder	—	—	—	—



### Sectional trim ring

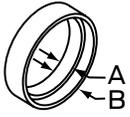
Door thickness	Function	985 1 1/8"	986 1 1/4"	(C)987 1 3/8"	(C)988 1 1/2"
1 1/2"	Single cylinder	A08794-001	A08794-002	—	—
1 1/2"	Double cylinder	A08794-002	A08794-003	—	—
1 3/4"	Single cylinder	A08794-000	A08794-001	A08794-002	—
1 3/4"	Double cylinder	A08794-001	A08794-002	A08794-003	—
2"	Single cylinder	—	A08794-000	A08794-001	A08794-002
2"	Double cylinder	A08794-000	A08794-001	A08794-002	A08794-003
2 1/4"	Single cylinder	—	—	A08794-000	A08794-001
2 1/4"	Double cylinder	—	A08794-000	A08794-001	A08794-002
2 1/2"	Single cylinder	—	—	—	A08794-000
2 1/2"	Double cylinder	—	—	A08794-000	A08794-001

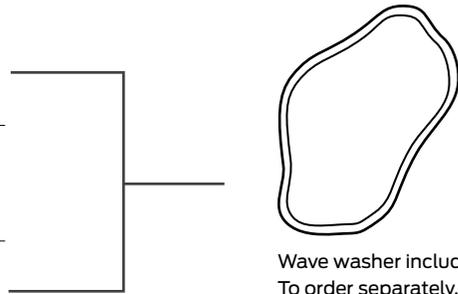


Note: Specify part number and finish when ordering.  
(e.g. A08790-000-626)

# Mortise cylinders

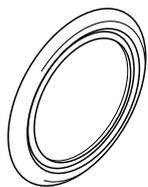
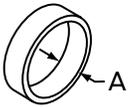
## Cylinder collars (continued)

	Dim. A	Dim. B	Part No.
	3/32"	9/32"	A08790-000
	7/32"	13/32"	A08790-001
	11/32"	17/32"	A08790-002
	15/32"	21/32"	A08790-003
	43/64"	55/64"	A08790-004
	3/32"	9/32"	A08794-000
	7/32"	13/32"	A08794-001
	11/32"	17/32"	A08794-002
	15/32"	21/32"	A08794-003
	1/8"	—	008876-000
	3/16"	—	008876-005
	1/4"	—	008876-001
	3/8"	—	008876-002
	1/2"	—	008876-003
	5/8"	—	008876-004



Wave washer included.  
To order separately, specify  
008789-001-60

Note: Specify part number and finish when ordering.  
(e.g. A08790-000-626)



008862-000

For all rim cylinders and cam locks.

Note: Specify finishes: 605, 606, 612, 613, 625, 626



## About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries.

For more, visit [www.allegion.com](http://www.allegion.com)

*aptiQ* ■ LCN ■ **SCHLAGE** ■ STEELCRAFT ■ VON DUPRIN