

RIXSON[®]
ASSA ABLOY

ASSA ABLOY, the global leader
in door opening solutions



CHECKMATE[®] STOPS & HOLDERS

Absolute Door Control and Entire
Opening Protection

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INTRODUCTION



Checkmate® overhead stops and holders are used to extend the life of the door, frame and any door closing devices. They are ideal for installations prone to strong winds, high traffic or abuse, and when used with a floor closer, they provide absolute control at the top and bottom of the door.

Offered in a variety of architectural finishes for surface and concealed mounting, models are available to fit many different door widths.

Model	Concealed	Surface	Low Profile	Adjustable
#1 Heavy-Duty Concealed	•			
#1 ADJ Heavy-Duty Concealed Adjustable	•			•
#2 Standard-Duty Concealed Adjustable	•			•
#5 Standard-Duty Concealed	•			
#6 Low Profile Concealed	•		•	
#6 ADJ Low Profile Concealed Adjustable	•		•	•
#7 Surface Cantilever Holder		•		
#8 HD Extra Heavy-Duty Double Lever		•		
#9 Heavy-Duty Surface		•		
#9 ADJ Heavy-Duty Surface Adjustable		•		•
#10 Standard-Duty Surface Adjustable		•		•
#55 Standard-Duty Surface		•		

TABLE OF CONTENTS

General Information..... 3

How to Select Product 4

Specifications 5

#1 Heavy-Duty Concealed..... 6

#1ADJ Heavy-Duty Concealed Adjustable..... 7

#2 Standard-Duty Concealed Adjustable 8

#5 Standard-Duty Concealed..... 9

#6 Low Profile Concealed..... 10

#6ADJ Low Profile Concealed Adjustable..... 11

#7 Surface Cantilever Holder 12

#8HD Extra Heavy-Duty Double Lever 13

#9 Heavy-Duty Surface..... 14

#9ADJ Heavy-Duty Surface Adjustable 15

#10 Standard-Duty Surface Adjustable 16

#55 Standard-Duty Surface..... 17

Parts Drawings..... 18

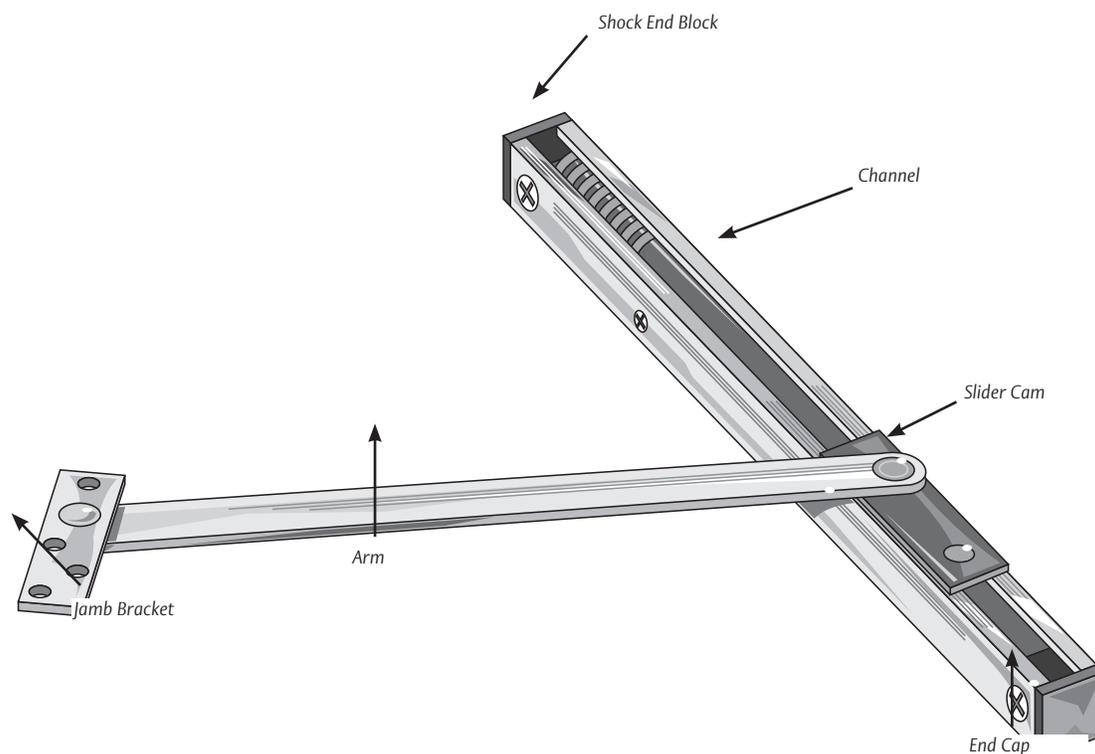
How to Order 19



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Checkmate® overhead stops and holders are used to extend the life of the door, frame and any door closing devices. They may be necessary if there are strong winds, high traffic or abuse.

- When used in conjunction with a floor closer, you have absolute door control, top and bottom
- Provides positive deadstop at selected degree
- There are three functions, four ways to order:
 - Friction Stay – used on doors without closers to keep doors open
 - Hold Open – door remains held open near deadstop location
 - Stops – door deadstops at a particular degree of opening
 - Multi Function – adaptable as hold open and/or stops
- Available for surface or concealed mounting
- Standard mount on push side of door (see model descriptions for pull side installations)
- Thru bolts are furnished with all surface models and must be used for installation



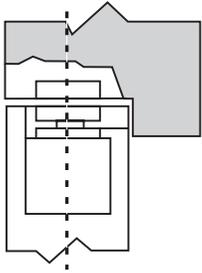
SPECIFICATIONS

- All overhead stops and holders shall be from a single manufacturer.
- Standard-duty models used for interior or low to moderate traffic doors.
- Heavy-duty models used for exterior or high traffic doors or doors subject to abuse.
- For extremely abusive areas or high winds use double lever arm type.
- Coordinate deadstop and/or hold open location with concealed floor closers.
- Checkmate products provide hold open and/or deadstop.

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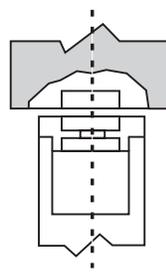
CONCEALED MOUNTING



Method A – Standard Installation, Single Acting Nos. 1, 1ADJ, 2, 5, 6, 6ADJ Series

For single acting doors, the jamb bracket is mortised into the frame and the channel mortised into the top of the door. Both the bracket and channel are secured with wood or machine screws.

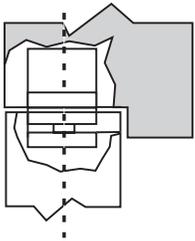
A cutout for the arm is required on the stop side of the door only. A hole must be drilled for the control knob of the No. 1 Series holder only.



Method B – Standard Installation, Double Acting Nos. 1, 1ADJ, 2, 5, 6, 6ADJ Series

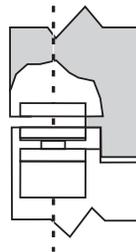
For double acting center hung floor closer or pivot applications.

Mounting is similar to Method A, with the exception that the cutout for the arm is required on both sides of the door.



Method C - Inverted Installation, Single Acting Nos. 2, 5 Series

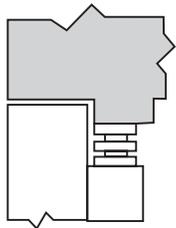
Recommended for doors with minimum top rail depth. The arm and jamb bracket are mortised into the door, and the channel is installed in the header with wood or machine screws. The cutout for the arm is required on the stop side of the door only.



Method D - Rabbeted Door Installation, Single Acting No. 2, 5 Series

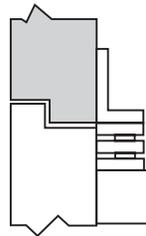
This method is designed for 1-3/4" doors with 1/2" maximum rabbet. The jamb bracket is mortised into the header and the arm and channel are mortised into the door. Wood or machine screws are used for fastening. The cutout for the arm is required on the stop side of the door only.

SURFACE MOUNTING



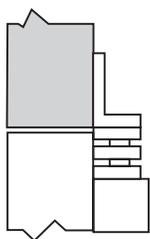
Method No. 1 – Standard Installation (Push side of door) Nos. 8HD, 9, 9ADJ, 10, 55 Series

The jamb bracket mounts on the soffit with wood or machine screws. The channel mounts to the door with sex bolts.



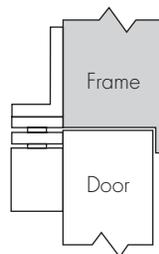
Method No. 2 – Rabbeted Door Installation (Push side of door) Nos. 8HD, 9, 9ADJ, 10, 55 Series

A special angle jamb bracket adapter mounts on the header with wood or machine screws. The jamb bracket attaches to the adapter with machine screws. The channel fastens to the door with sex bolts. **(Same bracket as used with Method 3 and 5. See catalog for bracket number for each model.)**



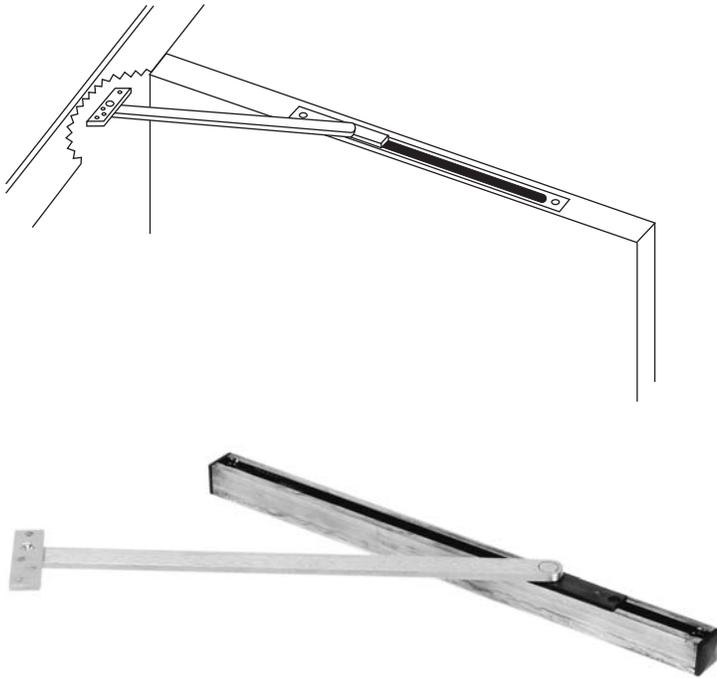
Method No. 3 - Flush Door Installation (Push side of door) Nos. 8HD, 9, 9ADJ, 10, 55 Series

This method of installation is identical to Method No. 2 for Rabbeted Doors. **(Same bracket as used with Method 2 and 5. See catalog for bracket number for each model.)**



Method No. 5 - Reverse Installation (Pull side of door) Nos. 9, 9ADJ, 10 and 55 Series

The jamb bracket adapter is secured to the header with wood or machine screws. The jamb bracket fastens to the adapter with machine screws and the channel mounts on the door with sex bolts. **(Same bracket as used with Method 2 and 3. See catalog for bracket number.)**



Application

- Interior or exterior doors
- Single or double acting
- Non-handed
- Recommended for high traffic, heavy abuse installations

Features

- Heavy-duty
- Slide track design
- Stop, friction stay or hold open functions
- 1-3/4" minimum door thickness. For thicker doors, specify when ordering
- 110° maximum opening
- Heavy shock absorber spring provides 5-7° compression before dead stop
- LS option omits spring for special applications
- Durable slider cam and shock block
- Surface on/off knob on hold open models
- 1-3/16" square channel
- Complete screw packet for installation in wood and machine screws for door and frame.
- For security areas, Torx® screws available for exposed fasteners
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory
- Standard architectural finishes

Compliance

- Stop function UL listed for fire door assemblies

DOOR OPENING CHART (IN INCHES)

Butts Offset Pivots	Center Hung Pivots	Model Number		
		Friction	H.O.	Stop
*24 - 28	—	1-116	1-126	1-136
28-1/16 - 33	30 - 36	1-216	1-226	1-236
33-1/16 - 38	36-1/16 - 41	1-316	1-326	1-336
38-1/16 - 43	41-1/16 - 46	1-416	1-426	1-436
43-1/16 - 48	46-1/16 - 50	1-516	1-526	1-536

*Butt hung only on this size door. No swing clear hinges.



Application

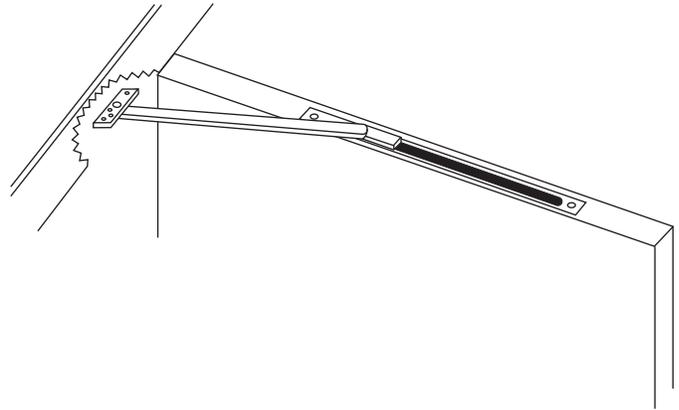
- Interior or exterior doors
- Single or double acting
- Non-handed
- Recommended for high traffic, heavy abuse situations

Features

- Heavy-duty, adjustable
- Slide track design
- Order specifically as a stop or hold open
- 1-3/4" minimum door thickness, for thicker doors consult factory
- 110° maximum opening (except 1ADJ for center hung 30-36" door which is 105°)
- Degree of opening is fully adjustable and can be adapted to changing needs
- Heavy shock absorber spring provides 5-7° compression before dead stop
- 1-3/16" square channel
- Complete screw packet kit for installation in wood or metal door and frame
- For security areas, Torx® screws available for exposed fasteners
- Durable slider cam and shock block
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.
- Standard architectural finishes

Compliance

- Stop function UL listed for fire door assemblies



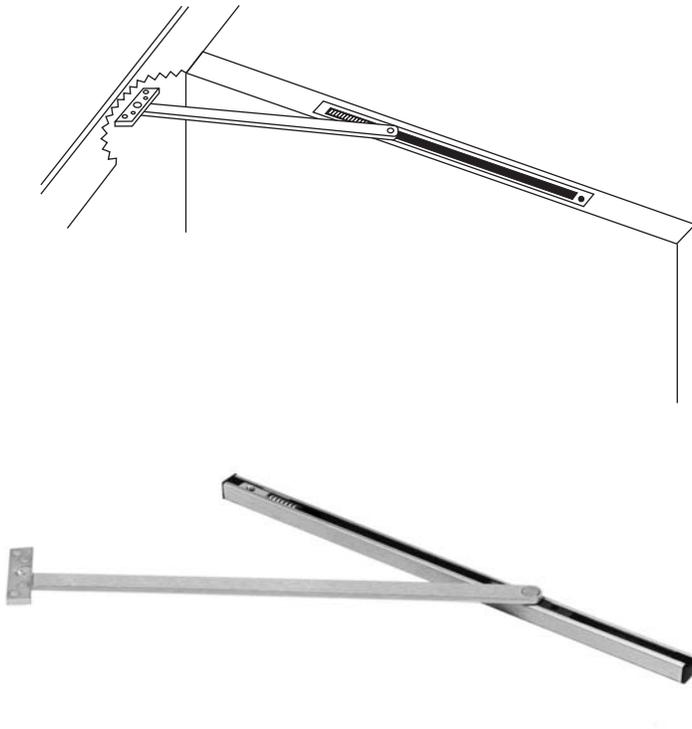
DOOR OPENING CHART (IN INCHES)

Butts Offset Pivots	Center Hung Pivots	Model Number	
		H.O.	Stop
*24 - 28	—	1ADJ-126	1ADJ-136
28-1/16 - 33	30 - 36	1ADJ-226	1ADJ-236
33-1/16 - 38	36-1/16 - 41	1ADJ-326	1ADJ-336
38-1/16 - 43	41-1/16 - 46	1ADJ-426	1ADJ-436
43-1/16 - 48	46-1/16 - 50	1ADJ-526	1ADJ-536

**Butt hung only on this size door. No swing clear hinges.*



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Application

- Interior doors
- Doors may be single or double acting
- Non-handed
- Recommended for moderate traffic, medium weight doors

Features

- Standard duty, adjustable
- Slide track design
- Degree of opening is fully adjustable and can be adapted to changing needs
- Heavy shock absorber spring provides 5-7° compression before dead stop
- Can be ordered specifically as a stop, friction stay, or hold open
- Multi-function unit is shipped as a stop. Can be converted to a hold open or friction in the field. 5012-PKG (Adapter kit) included
- Complete screw packet kit for installation in wood or metal door and frame
- For security areas, Torx® screws available for exposed fasteners, but heavy-duty units should be considered for high security applications
- Standard architectural finishes
- Durable slider cam and shock block
- 110° maximum opening
- 3/4" square channel
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.

Compliance

- Stop function UL listed for fire door assemblies

DOOR OPENING CHART (IN INCHES)

Butts Offset Pivots	Center Hung Pivots	Model Number			
		Friction	H.O.	Stop	Multi
*18 - 24	—	2-116	2-126	2-136	2-146
24-1/16 - 30	27 - 32	2-216	2-226	2-236	2-246
30-1/16 - 36	32-1/16 - 38-1/2	2-316	2-326	2-336	2-346
36-1/16 - 42	38-9/16 - 45	2-416	2-426	2-436	2-446
42-1/16 - 48	45-1/16 - 48	2-516	2-526	2-536	2-546

*Butt hung only on this size door. No swing clear hinges.



Application

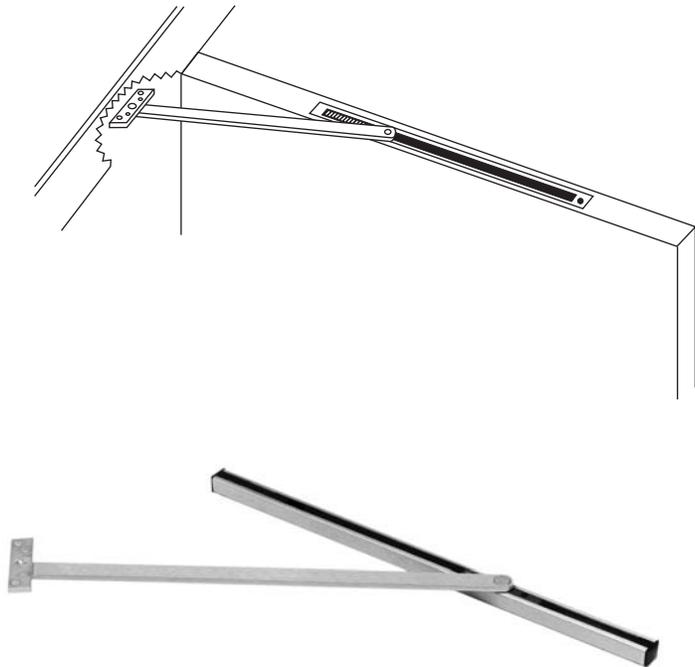
- Interior doors
- Doors may be single or double acting
- Non-handed
- Recommended for moderate traffic, medium weight interior doors

Features

- Standard duty
- Slide track design
- Degree of opening determined by templating – not field adjustable.
- Heavy shock absorber spring provides 5-7° compression before dead stop
- Complete screw packet allows for installation in wood or metal door and frame
- For security areas, Torx® screws available for exposed fasteners, but heavy-duty units should be considered for high security applications
- Available in 652 and sprayed finishes only
- Durable slider cam and shock block
- 110° maximum opening
- 3/4" square channel
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.

Compliance

- Stop function UL listed for fire door assemblies



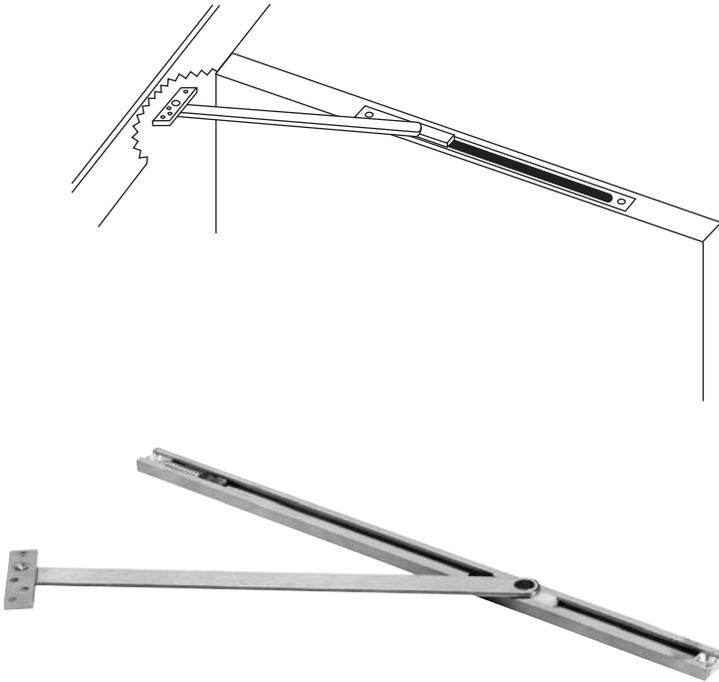
DOOR OPENING CHART (IN INCHES)

Butts Offset Pivots	Center Hung Pivots	Model Number	
		H.O.	Stop
*18 - 24	—	5-126	5-136
24-1/16 - 30	27-32	5-226	5-236
30-1/16 - 36	32-1/16 - 38-1/2	5-326	5-336
36-1/16 - 42	38-9/16 - 45	5-426	5-436
42-1/16 - 48	45-1/16 - 48	5-526	5-536

*Butt hung only on this size door. No swing clear hinges.



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Application

- Interior or exterior doors
- Doors may be single or double acting
- Non-handed
- Recommended for moderate traffic, medium weight doors

Features

- Low profile
- Low profile concealed channel designed for installation in aluminum storefront doors
- Heavy shock absorber spring provides 5-7° compression before dead stop
- Complete screw kit allows for installation in wood or metal door and frame
- For security areas, Torx® screws optional
- Standard architectural finishes
- Durable slider cam
- 110° maximum opening
- 1-3/4" minimum door thickness
- Channel is 1-1/4" wide by 1/2" deep
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory
- Available in stop function only

Compliance

- UL listed for fire door assemblies

DOOR OPENING CHART (IN INCHES)

Butts Offset Pivots	Center Hung Pivots	Model Number
Door Opening		Stop
*24 - 28	—	6-136
28-1/16 - 33	30 - 36	6-236
33-1/16 - 38	36-1/16 - 41	6-336
38-1/16 - 43	41-1/16 - 46	6-436
43-1/16 - 48	46-1/16 - 50	6-536

*Butt hung only on this size door. No swing clear hinges.



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Application

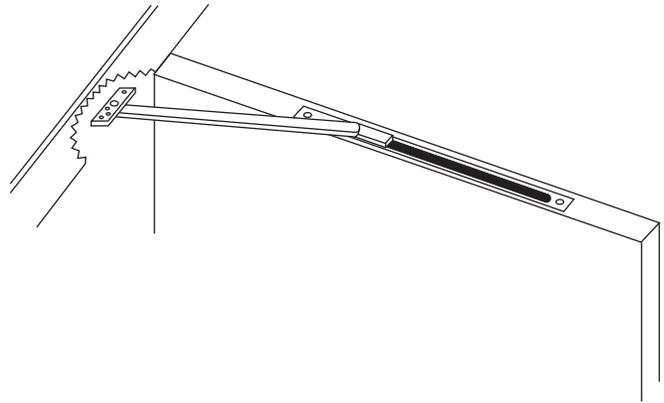
- Interior or exterior doors
- Doors may be single or double acting
- Non-handed
- Recommended for moderate traffic, medium weight doors

Features

- Low profile, adjustable
- Low profile concealed channel design for installation in aluminum doors
- Heavy shock absorber spring provides 5-7° compression before dead stop
- Degree of opening is fully adjustable and can be adapted to changing needs
- Complete screw packet for installation in wood or metal door and frame
- For security areas, Torx® screws available for exposed fasteners
- Standard architectural finishes
- Durable slider cam and shock block
- 110° maximum opening (except 6ADJ for center hung 30-36" door which is 105°)
- 1-3/4" minimum door thickness, for thicker doors consult factory
- Channel is 1-1/4" wide x 1/2" deep
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.
- Available in stop function only

Compliance

- UL listed for fire door assemblies



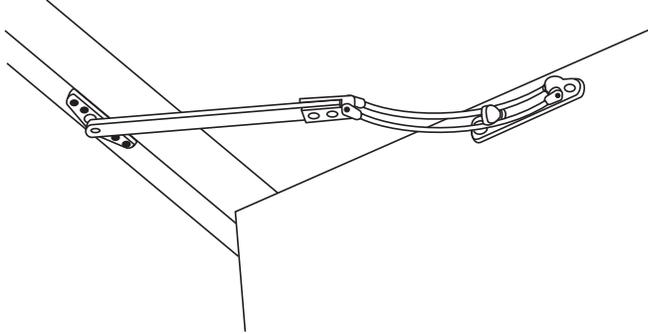
DOOR OPENING CHART (IN INCHES)

Butts Offset Pivots	Center Hung Pivots	Model Number
		Stop
*24 - 28	—	6ADJ-136
28-1/16 - 33	30 - 36	6ADJ-236
33-1/16 - 38	36-1/16 - 41	6ADJ-336
38-1/16 - 43	41-1/16 - 46	6ADJ-436
43-1/16 - 48	46-1/16 - 50	6ADJ-536

**Butt hung only on this size door. No swing clear hinges.*



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Application

- Interior or exterior doors
- Single acting
- Non-handed

Features

- Industrial duty
- Cantilever design
- Hold open only
- Double spring arm absorbs shock
- Complete screw packet with thru-bolts for door, wood and machine screws for frame
- For security areas, Torx® screws available for exposed fasteners
- Self-lubricating bronze bearings
- Sprayed finishes only
- 110° maximum opening
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.

DOOR OPENING CHART (IN INCHES)

Butts Offset Pivots	Model Number
	Hold Open
24 - 30	7-126
30-1/16 - 34	7-226
34-1/16 - 39	7-326
39-1/16 - 48	7-426



Application

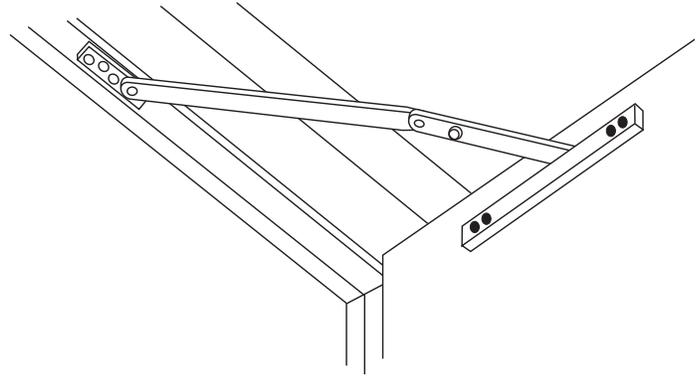
- Interior or exterior doors
- Single acting doors, push side mounting only
- Non-handed
- Recommended for high traffic, heavy abuse installations

Features

- Extra heavy-duty
- Double lever design
- Recommended for high traffic, heavy abuse installations
- Extra heavy shock absorber spring provides 6° compression before deadstop
- Available with stop function or thumbturn hold open
- Complete screw packet with thru-bolts for door, wood and machine screws for frame.
- Torx® screws optional for security applications
- Standard architectural finishes
- 110° maximum opening
- 1-3/4" minimum door thickness
- For flush mounting on the push side of the door use angle jamb bracket adapter 5458-LH or 5459-RH
- Cannot be mounted on pull side of door
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.
- Stainless steel base metal only

Compliance

- Stop function UL listed for fire door assemblies

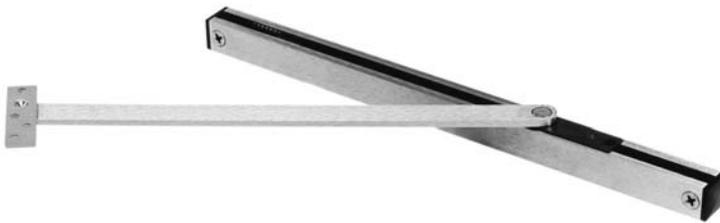
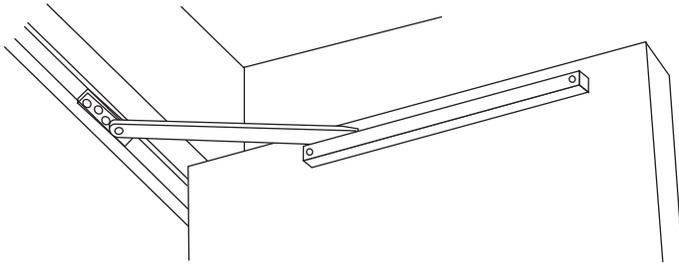


DOOR OPENING CHART (IN INCHES)

Butts Offset Pivots	Center Hung Pivots	Model Number	
		H.O.	Stop
27-1/16 - 32-1/2	27-9/16 - 35	8-226	8-236
32-9/16 - 38-3/4	35-1/16 - 42-1/2	8-326	8-336
38-13/16 - 42-1/2	41-9/16 - 45	8-426	8-436
42-9/16 - 48	45-1/16 - 48	8-526	8-536



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Application

- Interior or exterior doors
- Doors are single acting
- Non-handed
- Recommended for high traffic, heavy abuse installations

Features

- Heavy-duty
- Slide track design
- Heavy shock absorber spring provides 5-7° compression before deadstop
- LS option omits spring for special application
- On/off knob on hold open models
- Stop, friction stay or hold open function
- Complete screw packet with thru-bolts for door, wood and machine screws for frame
- Torx® screws optional for security applications
- Standard architectural finishes
- Durable slider cam and shock block
- 110° maximum opening
- 1-3/4" minimum door thickness
- 1-3/16" square channel
- For pull side mounting or flush mounting on push side or for rabbeted push side use angle jamb bracket adapter 5458-LH or 5459-RH
- Hanging means other than standard butts or offset pivots require special templating

Compliance

- Stop function UL listed for fire door assemblies

DOOR OPENING CHART (IN INCHES)

Butts Offset Pivots	Center Hung Pivots	Model Number		
		Friction	H.O.	Stop
*24 - 28	25-1/2 - 30	9-116	9-126	9-136
28-1/16 - 33	30-1/16 - 36	9-216	9-226	9-236
33-1/16 - 38	36-1/16 - 41	9-316	9-326	9-336
38-1/16 - 43	41-1/16 - 46	9-416	9-426	9-436
43-1/16 - 48	46-1/16 - 50	9-516	9-526	9-536

*Butt hung only on this size door. No swing clear hinges.



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Application

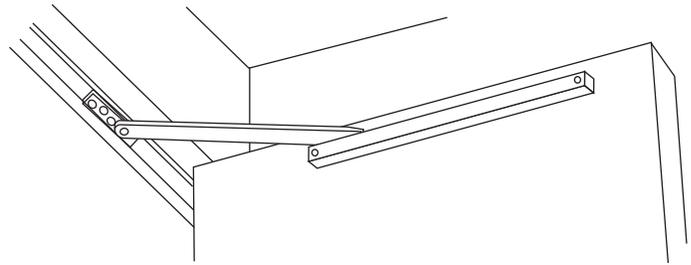
- Interior or exterior doors
- Doors are single acting
- Non-handed
- Recommended for high traffic, heavy abuse installations

Features

- Heavy-duty, adjustable
- Slide track design
- Heavy shock absorber spring provides 5-7° compression before dead stop
- Degree of opening is fully adjustable and can be adapted to changing needs
- Complete screw packet with thru-bolts for door, wood and machine screws for the frame
- For security areas, Torx® screws available for exposed fasteners
- Standard architectural finishes
- Durable slider cam and shock block
- 110° maximum opening (except 9ADJ for center hung 30-36" door which is 105°)
- 1-3/4" minimum door thickness, for thicker doors consult factory
- 1-3/16 square channel
- For pull side mounting or flush and rabbeted mounting on push side use angle jamb bracket adapter 5458-LH or 5459-RH
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.

Compliance

- Stop function UL listed for fire doors

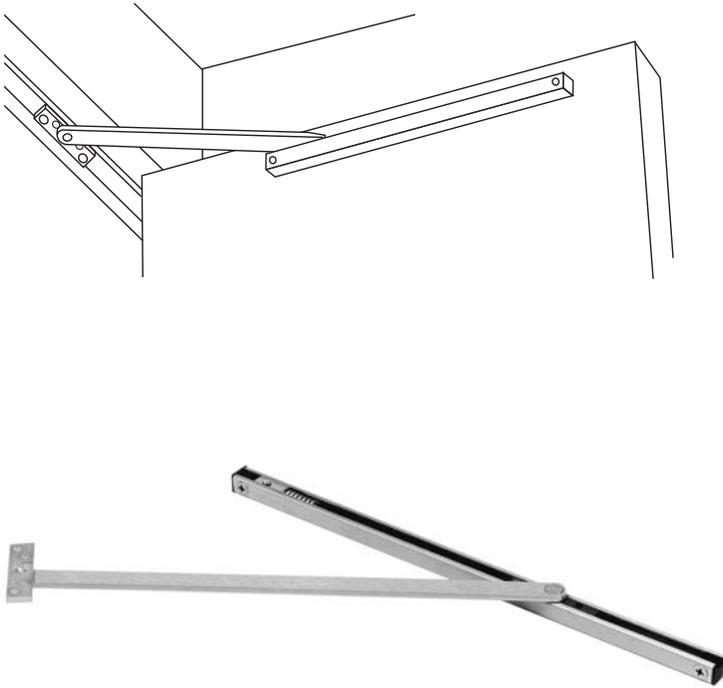


DOOR OPENING CHART (IN INCHES)

Butts Offset Pivots	Center Hung Pivots	Model Number	
		H.O.	Stop
*24 - 28	25-1/2 - 30	9ADJ-126	9ADJ-136
28-1/16 - 33	30-1/16 - 36	9ADJ-226	9ADJ-236
33-1/16 - 38	36-1/16 - 41	9ADJ-326	9ADJ-336
38-1/16 - 43	41-1/16 - 46	9ADJ-426	9ADJ-436
43-1/16 - 48	46-1/16 - 50	9ADJ-526	9ADJ-536



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Application

- Interior doors
- Doors are single acting
- Non-handed
- Recommended for moderate, medium weight doors

Features

- Standard duty, adjustable
- Slide track design
- Degree of opening fully adjustable and can be adapted to changing needs
- Heavy shock absorber spring provides compression before deadstop
- Can be ordered specifically as a stop, friction stay, or hold open.
- Multi-function unit is shipped as a stop. Can be converted to a hold open or friction in field. 5012- PKG (Adapter kit) included
- Complete screw packet with thru-bolts for door, wood and machine screws for frame
- Torx® screws optional for security applications, but heavy-duty units should be considered for high-security applications
- Standard architectural finishes
- Durable slider cam and shock block
- 110° maximum opening
- 3/4" square channel
- For pull side mounting or flush and rabbeted mounting on push side use angle jamb bracket adapter 5258
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.

Compliance

- Stop function UL listed for fire door assemblies

DOOR OPENING CHART (IN INCHES)

Butts Offset Pivots	Center Hung Pivots	Model Number			
		Friction	H.O.	Stop	Multi
*18 - 24	21 - 26-1/2	10-116	10-126	10-136	10-146
24-1/16 - 30	26-9/16 - 32	10-216	10-226	10-236	10-246
30-1/16 - 36	32-1/16 - 38	10-316	10-326	10-336	10-346
36-1/16 - 42	38-1/16 - 45	10-416	10-426	10-436	10-446
42-1/16 - 48	45-1/16 - 48	10-516	10-526	10-536	10-546

*Butt hung only on this size door. No swing clear hinges.



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Application

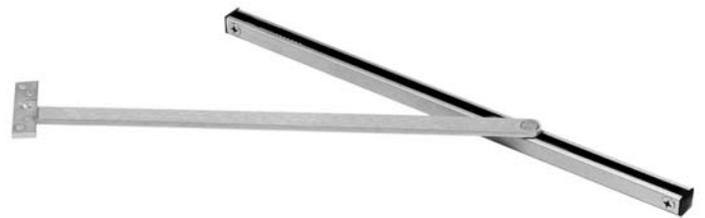
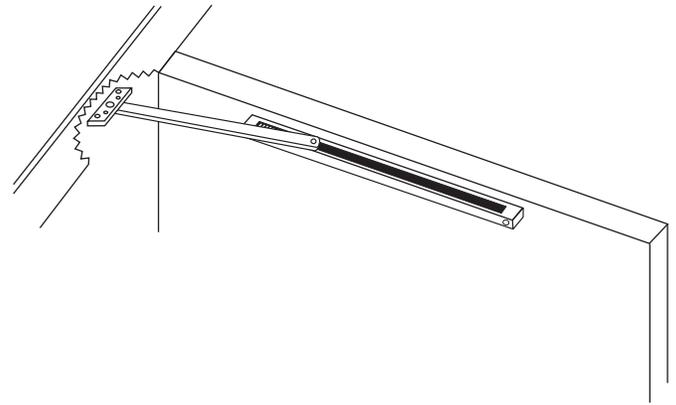
- Interior doors
- Doors are single acting
- Non-handed
- Recommended for moderate traffic, medium weight doors

Features

- Standard duty
- Slide track design
- Degree of opening determined by template. Not field adjustable
- Heavy shock absorber spring provides 5-7° compression before deadstop
- Stop and hold open functions
- Complete screw packet with thru-bolts for door, wood and machine screws for the frame
- Torx® screws optional for security applications, but heavy-duty units should be considered for high-security applications
- Available in 652 and sprayed finishes only
- Durable slide block and shock block
- 110° maximum opening
- 3/4" square channel
- For pull side mounting or flush and rabbeted mounting on push side use angle jamb bracket adapter 5258
- Hanging means other than standard butts or offset pivots require templating and pricing. Consult factory.

Compliance

- Stop function UL listed for fire door assemblies



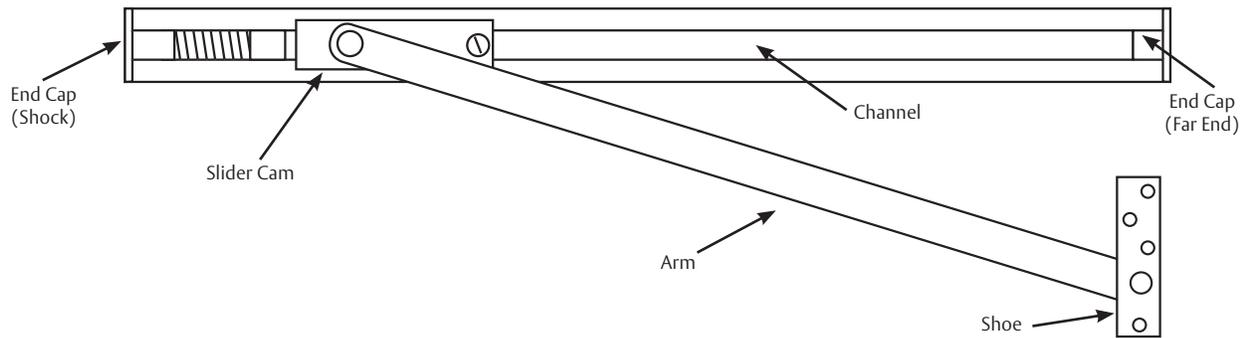
DOOR OPENING CHART (IN INCHES)

Butts Offset Pivots	Center Hung Pivots	Model Number	
		H.O.	Stop
*18 - 24	—	55-126	55-136
24-1/16 - 30	27 - 32	55-226	55-236
30-1/16 - 36	32-1/16 - 38-1/2	55-326	55-336
36-1/16 - 42	38-9/16 - 45	55-426	55-436
42-1/16 - 48	45-1/16 - 48	55-526	55-536

*Butt hung only on this size door. No swing clear hinges.



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End Caps #1, 2, 9 & 10 only

#1 & #9	Shock End Block	6003
	Far End Block	6004
#2 & #5	Far End Block	5059 (2 req.)
#10	Far End Block	5011 (2 req.)

Screw Kits

#1	Stop	6487-*
	Hold Open	6998N*
#1ADJ	Stop and Holder	6487-*
#2	Friction or Stop	5999-*
#6	Stop	6487-*
#7	Friction or Stop	3880-XXXXA
#8	Friction or Stop	5897-*
#9	Friction or Stop	6468-*
	Hold Open	6997N*
#9ADJ	Stop and Holder	6468-*
#10 & #55	Friction or Stop	5998-*

ARM ASSEMBLIES (includes arm, shoe and slider cam)

Examples for ordering arm assemblies

Series	Dash	Size	Function	Letter for Arm Assembly	Finish	Part Number
1ADJ	-	3	36	R	630	= 1ADJ-236R 630
2	-	1	16	R	613	= 2-116R 613
6	-	4	36	R	630	= 6-436R 630
7	-	4	26	R	689	= 7-426R 689

Components for arm assemblies may not be ordered separately.

ADAPTER KITS

2	Hold Open, Friction Adapter	5012-PKG
10	Hold Open, Friction Adapter	5012-PKG

*specify finish



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HOW TO ORDER

1 Series	—	3 Door Size	36 Function/Base Metal	X Suffix/Options	630 Finish
1 - Hvy Dty Conc		1	16 - Friction		689 Sprayed Alum
1ADJ - Hvy Dty Conc Adj		2	26 - Holder		690 Sprayed Dk Brz
2 - Std Dty Conc Adj		3	36 - Stop		691 Sprayed Lt Brz
5 - Std Dty Conc Non-Adj		4	46 - Mult-func		696 Sprayed Brass
6 - Low Profile Conc		5			605 Bright Brass
6ADJ - Low Profile Conc Adj			LS Less Spring (models 1 & 9 only)		606 Satin Brass
7 - Surf Cantilever Hldr			5258 Standard Duty Bracket		611 Bright Bronze
8HD - Extra Hvy Dty Dbl Lever			5458 LH Heavy Duty Bracket		612 Satin Bronze
9 - Hvy Dty Surf			5459 RH Heavy Duty Bracket		613 Dark Bronze
9ADJ - Hvy Dty Surf Adj			Torx Security Screws		613E Dark Oxidized Satin Bronze - equivalent
10 - Std Dty Surf Adj			R Arm Only		618 Bright Nickel
55 - Std Dty Surf					619 Satin Nickel
					622 Flat Black
					629 Bright Stainless
					630 Stainless Steel
					652 Satin Chrome
					BSP Black Suede Powder Coat

SHIPPING WEIGHTS

Models	Shipping Weights
1, 1ADJ, 6, 6ADJ, 8HD, 9, 9ADJ	4.5 lbs.
2, 5, 10, 55	3.5 lbs.
7	7 lbs.

Less Spring – Suffix LS

Heavy-duty slide track type stops have a spring in the end of the channel that keeps the slider from deadstopping. If these units are being used with electromechanical closer, where the door, must deadstop, the LS option is needed. Available only with models 1 and 9

Angle Jamb Bracket Adapter

Standard-duty models suffix 5258 (non-handed)

Heavy-duty models suffix 5458 (LH) or 5459 (RH)

When surface mounted units are mounted on a rabbeted door on the push side, flush door and transom on the push side, or in a reverse installation on the pull side of the door, a special bracket is needed. Note: not all models can be mounted on the pull side of the door (see specific model numbers in catalog.)

Security Screws – Suffix Torx®

Security screws can be supplied for exposed fasteners



PRODUCT COMPARISON CHART

	1 Series	1ADJ Series	2 Series	5 Series	6 Series	6ADJ Series	7 Series	8HD Series	9 Series	9ADJ Series	10 Series	55 Series
Application	High Traffic, Heavy Abuse Installations	High Traffic, Heavy Abuse Installations	Moderate Traffic, Medium Weight Doors	Moderate Traffic, Medium Weight Doors	Moderate Traffic, Medium Weight Aluminum Storefront Doors	Moderate Traffic, Medium Weight Aluminum Storefront Doors	Industrial Applications	High Traffic, Heavy Abuse Installations	High Traffic, Heavy Abuse Installations	High Traffic, Heavy Abuse Installations	Moderate Traffic, Medium Weight Doors	Moderate Traffic, Medium Weight Doors
Heavy-Duty	•	•						•	•	•		
Standard Duty			•	•							•	•
Concealed	•	•	•	•	•	•						
Low Profile					•	•						
Surface							•	•	•	•	•	•
Type of arm	Slide track	Slide track	Slide track	Slide track	Slide track	Slide track	Double spring	Double lever	Slide track	Slide track	Slide track	Slide track
Adjustable		•	•			•				•	•	
Exterior Door	•	•			•	•	•	•	•	•		
Interior Door	•	•	•	•	•	•	•	•	•	•	•	•
Single or Double Acting Doors	Single or Double	Single or Double	Single or Double	Single or Double	Single or Double	Single or Double	Single only	Single only (push side mount)	Single only	Single only	Single only	Single only
Maximum opening ¹	110°	110°	110°	110°	110°	110°	110°	110°	110°	110°	110°	110°
Standard Door Thickness ²	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"
Friction	•		•						•		•	
Hold Open	•	•	•	•			•	•	•	•	•	•
Stop	•	•	•	•	•	•		•	•	•	•	•
Multi-Function			•								•	
LS option ³	•								•			
Stop function UL listed for fire door assemblies	•	•	•	•	•	•		•	•	•	•	•

1 Maximum opening for ADJ series center hung 30-36" is 105°

2 For thicker doors, consult factory

3 LS = Less Spring



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For a complete listing of products and applications please visit our web site.

www.rixson.com
www.assaabloydss.ca

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TABLE OF CONTENTS

Caster

10600 Single Roller Caster 3

10602 Double Roller Caster 3

Applied Stop

60131 Lock Edge Applied Stop (center hung doors)..... 3

Special Cement Cases

1101 Cement Case (use between 2 slabs) 4

79501 Cement Case (use with shallow floors) 4

25204 Twin Cement Case (1-7/8" Mullion for back-to-back closers) 5

25304 Twin Cement Case (2" Mullion for back-to-back closers) 5

Cover Pans

846 Cover Pan for 27 closer 6

3910 Cover Pan for L27 closer 6

2237 Cover Pan for 28 closer x 554 flat arm 6

841 Cover Pan for 28 closer, centering arm 6

841B Cover pan for H28 closer 6

2637 Cover Pan for 51 closer 6

2807D Cover Pan for 53 closer 6

2807B Cover Pan for 50 closer x 554 flat arm 6

2807A Cover Pan for 50 closer, centering arm 6

Installation Tools

2604/2608 Alignment Tools 7

1859001 27/28/30/40 Quickspotter 7

1859501 Q27 Quickspotter 7

1855051 50/51/53 Quickspotter 7



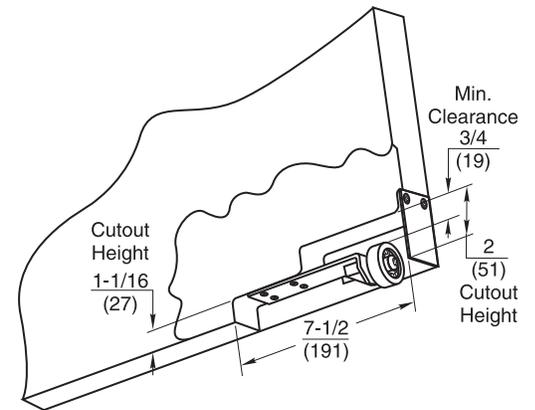
10600, 10602 Casters

Application

- Casters are required for all doors over 5' wide that are pivoted near the heel edge of the door
- For doors weighing up to 730 lbs., specify model 10600 (single roller)
- For doors weighing up to 1500 lbs., specify model 10602 (double roller)
- Metal doors minimum 1-3/4" thickness
- Wood doors minimum 2-1/4" thickness
- Three 1/16" shim plates included for adjustment after door is installed
- Optional end cap to finish off edge of door 10600-019
- Hollow metal mounting plate available
- For low frequency usage
- For interior door installations
- For pivot doors only
- Patented



Technical Information



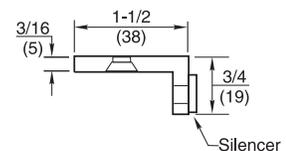
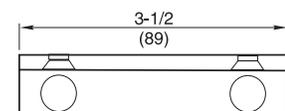
60131 Lock Edge Applied Stop

Application

For center hung doors with single acting closers. Mount to underside of frame head at the lock edge to keep doors from resting past center.



Technical Information



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ELECTRIFIED CLOSER/HOLDER

Fire/Life-Safety Products to
Protect People and Property

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TABLE OF CONTENTS

Introduction

Designed for a variety of applications, fire/life-safety closers and holders protect people and property. Rixson offers three distinctly different holding devices: the Smok-Chek® V, Smok-Chek® VI and Checkmate® 99 series.

The single-point electromechanical Smok-Chek V can be mounted on the push or pull side of the door and is best suited for cross corridor doors. The Smok-Chek VI can be ordered with or without a detector and is ideal for patient room doors using the free swing arm option. Checkmate 99, an electrified holder, is used with independent closers and can be mounted on the push or pull side of the door.



6 Pull Shown

Table of Contents

General Information..... 3

Specifications..... 3

Smok Chek® V

0600, 0601, 0602 4-5

0100, 0101 5-6

How to Order, Product Comparison Chart 7

Parts List 8-9

Smok Chek® VI

4 Pull, 6 Pull 10

4 Push, 6 Push..... 10

How to Order, Product Comparison Chart 11

Parts List 12-13

Checkmate® 99

99-726, 99-626 14

99-926, 99-826 14

How to Order, Product Comparison Chart 15

Parts List 16-17



General Information

Smok-Chek® V

Electromechanical action

- Single point hold open
- More durable than electrohydraulic units
- To hold open at 90°, door must open to 93°
- Best suited for cross corridor doors

Smok-Chek® VI

Electrohydraulic action

- Single point hold open-field adjustable, via cam
- Factory preset at 80°
- To hold open at 90°, door must open to 105°
- Free-Swing arm option; door acts as if there is no closer attached until the power is cut and the arm piece brings the door closed
- Best suited for patient room doors using free swing arm option



Checkmate® 99

Checkmate® 99

Electromechanical action – no closer supplied

- For doors with floor closers or surface mounted door closers
- Single point hold open
- To hold open at 90°, door must open to 93°
- Best suited for cross corridor doors

Note: These products are not designed to be manually pulled out of hold open. If continual cycling is necessary, a separate switch to release should be used.

Specifications

Closer/Holders shall be Smok-Chek® V series. They should be electromechanical type. All holders shall open and hold up to 180°. Units shall have holder on the frame and closer on the door. Product with fall-off will not be acceptable.

Closer/Holders shall be Smok-Chek® VI series. They should be electrohydraulic type. Units should have integral smoke detector, where applicable. All models shall have the ability to be set to multiple point hold open in the field. This product should have free swing option.

Whenever floor closers are specified and an electromechanical hold open is needed, the product should be **Checkmate®99**. This separate holder will allow the doors to swing to 110°, depending on the type of closer being used. Units should have integral smoke detector, where applicable.

Application

- Cross corridor doors - swinging in the same direction
- Maximum door weight 250 lbs.
- Doors up to 4'0" (1219mm)

Features

- Pull side mount
- Non-handed
- Hold open range 85°- 145°
- Mounts on 2" header
- Adjustable spring surface closer
- Maximum reveal 1/8"
- Concealed switch disconnects hold open
- 2 year limited warranty

Compliance

- UL listed
- Compliant with ANSI/BHMA A156.8 and A156.15 standards
- BHMA certified 
- ANSI/C00111

Electrical Data

- 24VAC/DC 80ma
- 120VAC 17ma

Application

- Cross corridor doors – double egress – doors swinging in opposite directions
- Maximum door weight 250 lbs.
- Doors up to 4'0" (1219mm)

Features

- Push side mount
- Non-handed
- Hold open range 85°- 135°
- Doors may swing and hold at 180° by using special arm 550789*
- Mounts on 2" header
- Adjustable spring surface closer
- Maximum reveal 3-1/2"
- For reveals 3-1/2" - 5-1/2" use special arm 550789*
- Concealed switch disconnects hold open
- 2 year limited warranty

Compliance

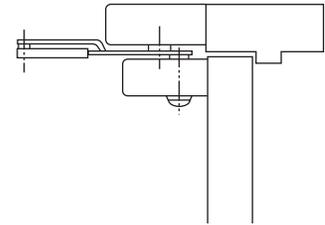
- UL listed
- Compliant with ANSI/BHMA A156.8 and A156.15 standards
- BHMA certified 
- ANSI/C00231

Electrical Data

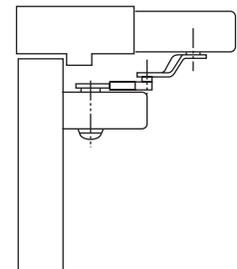
- 24VAC/DC 80ma
- 120VAC 17ma

* 550789 arm can only be used on push side applications. For use on double egress doors with reveals from 3-1/2" to 5-1/2" or on applications where doors need to swing to 180°

0600 Pull Side Mounting



0601 Push Side Mounting



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0602 Holder

ELECTIFIED CLOSER/HOLDER

SMOK-CHEK® V

Application

- Cross corridor doors – swinging in the same direction
- Maximum door weight 250 lbs.
- Doors up to 40" (1219mm)

Features

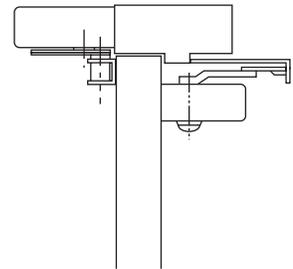
- Pull side mount for holder
- Push side mount for closer
- Non-handed
- Hold open range 85° - 180°
- Mounts on 2" header
- Adjustable spring surface closer
- Maximum reveal 1/8"
- Concealed switch disconnects hold open
- 2 year limited warranty

Compliance

- UL listed
- Compliant with ANSI/BHMA A156.8 and A156.15 standards
- BHMA certified 
- ANSI/C00471

Electrical Data

- 24VAC/DC 80ma
- 20VAC 17ma



0100 Holder

Application

- Cross corridor doors – can be used with floor closers
- Maximum door weight 250 lbs.
- Doors up to 40" (1219 mm)

Features

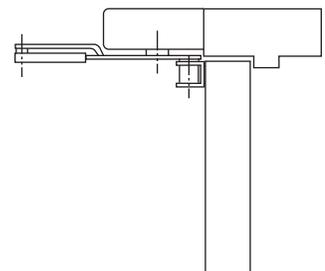
- Pull side mount for holder
- No closer supplied
- Non-handed
- Hold open range 85° - 180°
- Mounts on 2" header
- Maximum reveal 1/8"
- 2 year limited warranty

Compliance

- UL listed
- Compliant with ANSI/BHMA A156.8 and A156.15 standards
- BHMA certified 
- ANSI/C00471

Electrical Data

- 24VAC/DC 80ma
- 20VAC 17ma



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Application

- Cross corridor doors – double egress – doors swinging in opposite directions
- Maximum door weight 250 lbs.
- Doors up to 4'0"

Features

- Push side mount for holder
- No closer supplied
- Non-handed
- Hold open range 85° - 135°
- Mounts on 2" header
- Maximum reveal 3-1/2"
- For reveals 3-1/2" - 5-1/2" use special arm 550789*
- 2 year limited warranty

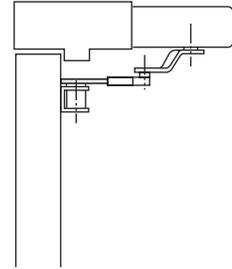
Compliance

- UL listed
- Compliant with ANSI/BHMA A156.8 and A156.15 standards
- BHMA certified 
- ANSI/C00511

Electrical Data

- 24VAC/DC 80ma
- 120VAC 17ma

* 550879 arm can only be used on push side applications. For use on double egress doors with reveals from 3-1/2" to 5-1/2" or on applications where doors need to swing to 180°



How To Order

0601 Series	120VAC Voltage	550789 Options	689 Finish
0600 Pull Side Mounting 0601 Push Side Mounting 0602 Holder on Pull Side/Closer on Push Side 0100 Pull Side Mounting Holder Only 0101 Push Side Mounting Holder Only	120VAC 24VAC/DC	550789 Arm (0601, 0101 models only)	689 Sprayed Alum 690 Sprayed Dk Brz 691 Sprayed Lt Brz 696 Sprayed Brass BSP Black Suede Powder

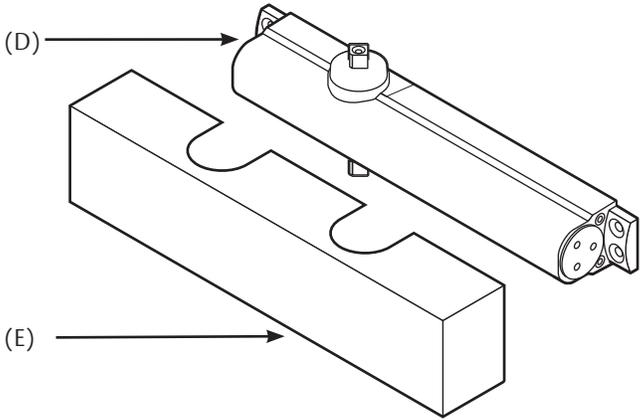
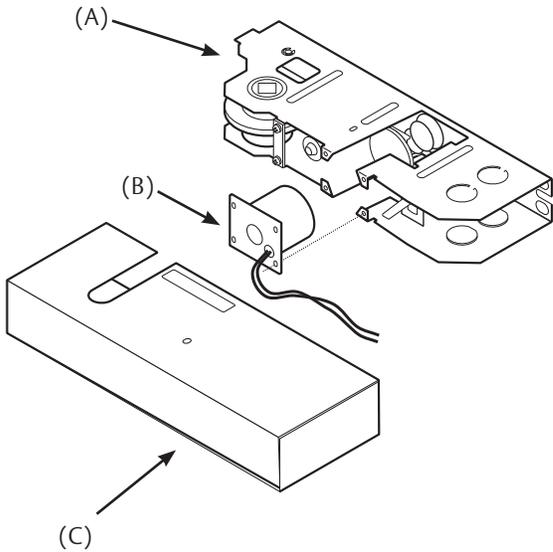
Product Comparison Chart

	0600	0601	0602	0100	0101
Application	Cross corridor doors (swinging in the same direction)	Cross corridor doors (swinging in the opposite direction)	Cross corridor doors (swinging in the same direction)	Cross corridor doors - can be used with floor closers	Cross corridor, double egress doors - (doors swing in opposite directions)
Closer Included	•	•	•		
Pull Side Mounting	•		Holder	Holder	
Push Side Mounting		•	Closer		Holder
Non-Handed	•	•	•	•	•
Maximum Door Weight	250 lbs.	250 lbs.	250 lbs.	250 lbs.	250 lbs.
Maximum Door Width	48"	48"	48"	48"	48"
Hold Open Range	85-145°	85-135°	85-180°	85-180°	85-135°
Maximum Reveal¹	1/8"	3-1/2"	1/8"	1/8"	3-1/2"

¹ When ordered with special arm 550789, additional reveals from 3-1/2" up to 5-1/2" may be accommodated (0601, 0101 only).



- (A) Holder Assembly
550100 120VAC
550101 24VAC/DC
- (B) Magnet
930105 120VAC
930106 24VAC/DC
- (C) Holder Cover (non-detected)
550106-*
- (D) Closer Body
85010163-*
- (E) Closer Cover
233069K*



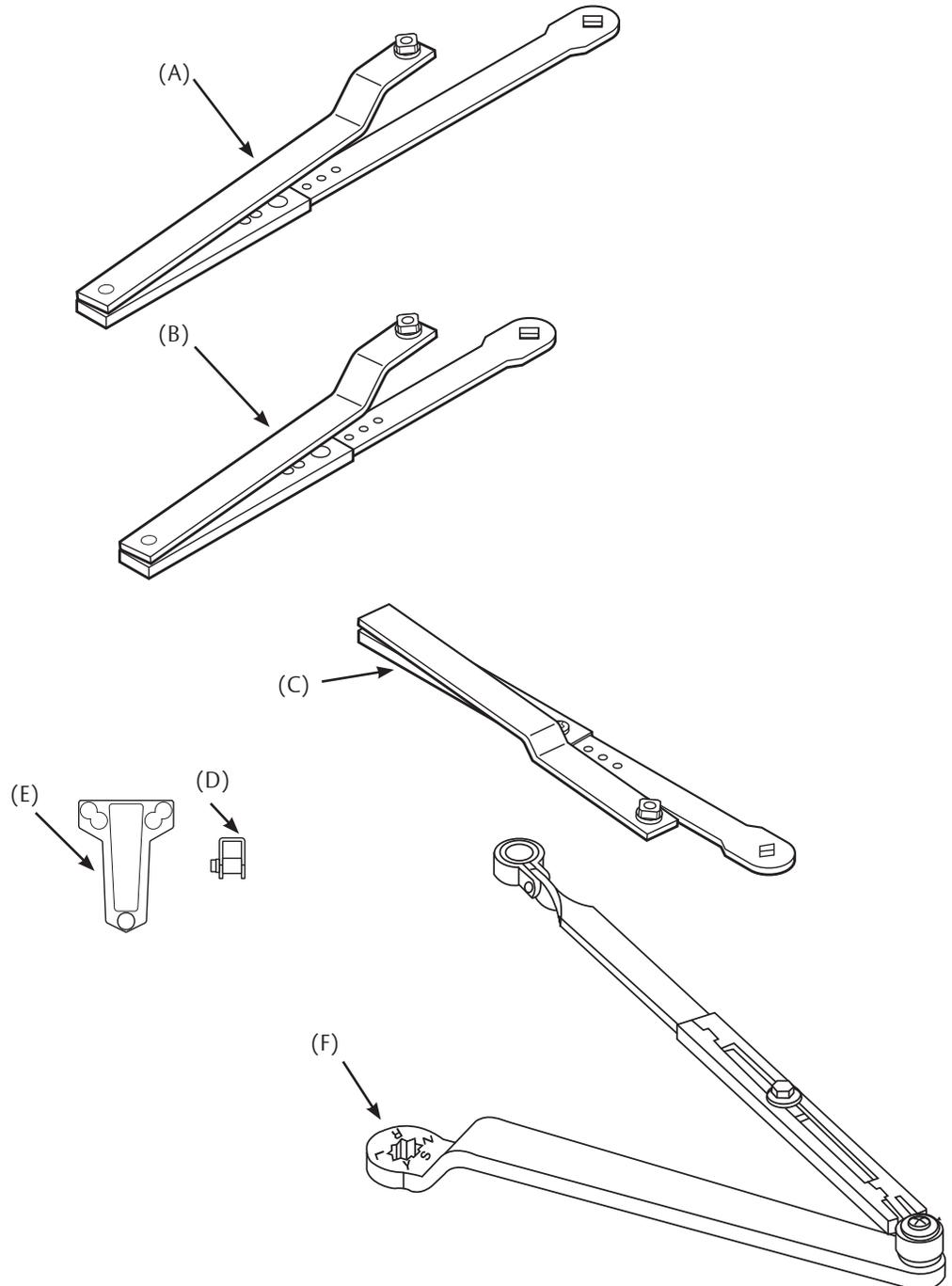
SCREW PACKS

550221-
for models with closers

550131-
for models without closers



- (A) Deep Reveal Push Side Arm
550789-*
- (B) Push Side Arm
550136K*
- (C) Pull Side Arm
550120K-*
- (D) Door Pivot Bracket
(Used with 0602 closers)
565118T689
- (E) PA Bracket
(Used with 0602 closers)
40-1600-0450-078
- (F) Arm (used with 0602 closers)
20-7700-0192-*



*specify finish

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Application

- Patient room doors
- Maximum door weight 250 lbs.
- Door width 2'4" - 4'0"

Features

- Pull side mounted
- Handed
- Maximum door opening 180°; maximum hold open 175°
- Single point hold open preset at factory (85°-175°)
- 4 PULL can be used with smoke detectors or as a slave unit to the 6 PULL
- 2" clearance required above 2" frame
- Sex bolts included standard
- 2 year limited warranty

Optional Features

- Free swing arm available (prefix "FS")
- Double egress arm available for reveals deeper than 1/8" up to 3" (prefix "DE"); maximum opening 110°

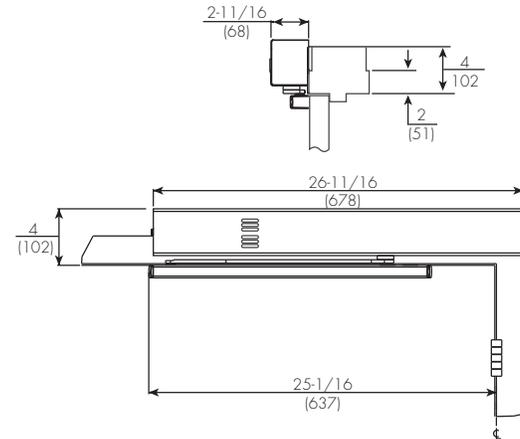
Compliance

- UL listed
- Compliant with ANSI/BHMA A156.8 and A156.15 standards
- BHMA certified 
- ANSI/C00351/C00361/C00371/C00381

Electrical Data

- 4 PULL available in 24VDC only
- 120VAC input is stepped down to 24VDC solenoid
- Non-detected 24VDC 70ma
- When 4 PULL and 6 PULL are ordered for a single pair of double doors, 4 PULL must be 24VDC
- Detected 24VDC 86ma standby, 105ma alarm

4 PULL (Non-Detected)
6 PULL (Detected)



4 PUSH (Non-detected)
6 PUSH (Detected)

Application

- Patient room doors or stairwells
- Maximum door weight 250 lbs.
- Door width 2'4" - 4'0"

Features

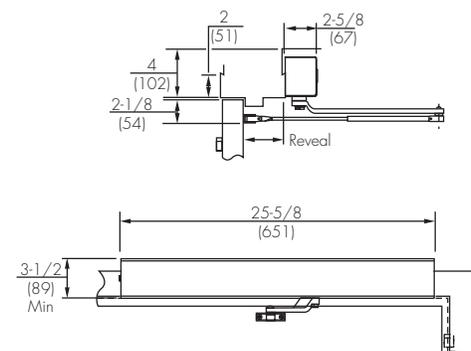
- Push side (stop) mounted
- Handed
- Maximum door opening 180°; maximum hold open 175°
- Selective Hold Open (Standard) – single point hold open preset at factory (85°-175°)
- 4 PUSH can be used with smoke detectors or as a slave unit to the 6 PUSH
- 2 year limited warranty

Compliance

- UL listed
- Compliant with ANSI/BHMA A156.8 and A156.15 standards
- BHMA certified 
- ANSI/C00311/C00321

Electrical Data

- 4 PUSH available in 24VDC only
- 120VAC input is stepped down to 24VDC solenoid
- Non-detected 24VDC 70ma
- When 4 PUSH and 6 PUSH are ordered for a single pair of double doors, 4 PUSH must be 24VDC
- Detected 24VDC 86ma standby, 105ma alarm



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How To Order

FS Prefix	4 PULL Series	S	120VAC Voltage	RH Hand	689 Finish
FS Free Swing Arm (Pull Side Only)	4 PULL Non-Detected Pull Side Mounting		120VAC	RH	689 Sprayed Alum
DE Double Egress Arm (Pull Side Only)	6 PULL Detected Pull Side Mounting		24VDC	LH	690 Sprayed Dk Brz
	4 PUSH Non-Detected Push Side Mounting				691 Sprayed Lt Brz
	6 PUSH Detected Push Side Mounting				696 Sprayed Brass
					BSP Black Suede Powder

Notes:

- Detected products have an integral photo-optic smoke detector. They can be stand-alone or used to activate other non-detected models.
- Non-detected products are connected to the alarm system or to a detected unit at the same opening.
- **Free Swing Arm – prefix FS**
Pull side units only. This option disengages the arm from the closing mechanism to make the door swing freely. It is normally used on patient room doors in hospitals. When an alarm cuts the power, a mechanism on the closer spindle pushes the arm and closes the door.
- **Double Egress Arm – prefix DE**
Pull side units only. This option can accommodate double egress reveals up to 3".

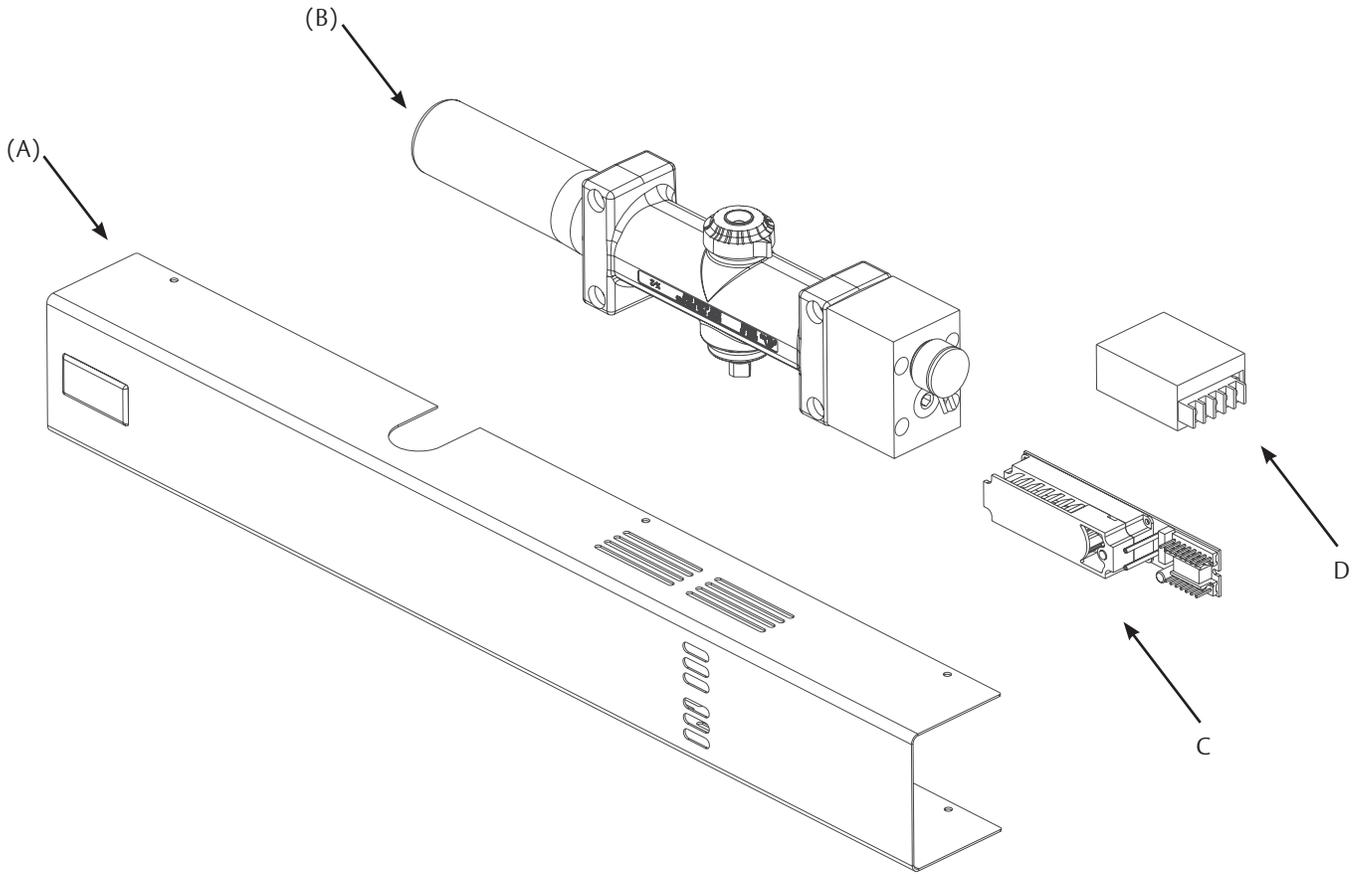
Product Comparison Chart

	4 Pull	6 Pull	4 Push	6 Push
Application	Patient room doors	Patient room doors	Patient room doors or stairwell	Patient room doors or stairwell
Pull Side Mounting	•	•		
Push Side Mounting			•	•
Handed	•	•	•	•
Detector included		•		•
Maximum Door Weight	250 lbs.	250 lbs.	250 lbs.	250 lbs.
Maximum Door Width	28" - 48"	28" - 48"	28" - 48"	28" - 48"
Maximum Door Opening ¹	180°	180°	180°	180°
Maximum Hold Open	175°	175°	175°	175°
Single point hold open preset at factory	85°-175°	85°-175°	85°-175°	85°-175°
Maximum Reveal	3" (with DE arm)	3" (with DE arm)		
Options	Free Swing Arm, Double Egress Arm	Free Swing Arm Double Egress Arm		
Sex bolts included	•	•		

1. For DE units, the maximum opening is 110°

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(A) Cover (Non-detected)
15-7200-0511-*

(A) Cover (Detected)
15-7200-0512-*

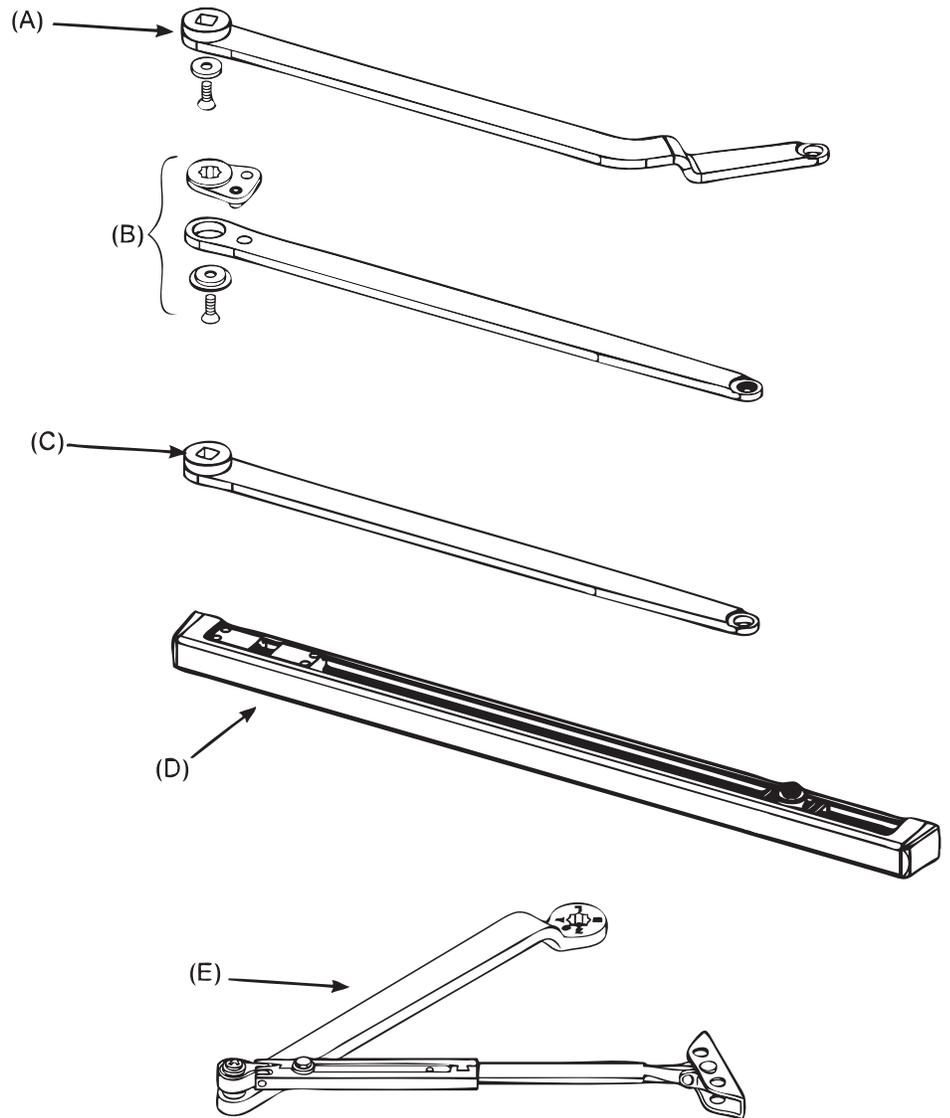
(B) Body Only
15-7204-0501-078
(RH, 24VAC/DC)
15-7204-0503-078
(LH, 24VAC/DC)

(C) Photo Optic Detector Module
Detected units only
15-7200-0503-078
(24VAC/DC)

(D) Power Supply
20-0099-0613-500

*specify finish

- (A) Double Egress Pull Side
15-7200-0517-* (RH)
15-7200-0518-* (LH)
- (B) Free Swing Arm
15-7200-0516-*
- (C) Pull Side Arm
15-7200-0515-*
- (D) Pull Side Track
15-7200-0514-*
- (E) Push Side Arm
15-7200-0505-*



SEX BOLT PACKAGE
15-7200-0382-*

*specify finish

Application

- Used with independent closers
- For doors 2'8" to 4'0" (non-detected)
3'0" to 4'0" (detected)

Features

- Push side
- Surface mounted
- Non-handed
- Single acting
- 85° - 110° hold open
- Detected or non-detected
- Surface or concealed wiring
- Holding force 25-35 lbs.
- 2 year limited warranty

Compliance

- UL listed
- Compliant with ANSI/BHMA A156.8 and A156.15 standards
- BHMA certified 
- ANSI/C00511/C00521

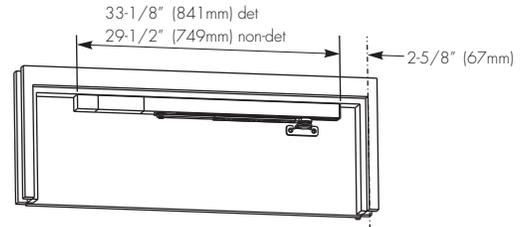
Electrical Data

- When used in conjunction with detected model, unit must be 24VDC
- Non-detected 120VAC / 24VAC/DC 90mA
- 120VAC / 24VAC/DC 106mA standby 125mA alarm

99-726 Non-Detected Push Side Mount 99-626 Detected Push Side Mount



99-626 shown



Application

- Used with independent closers
- For doors 2'8" to 4'0" (non-detected)
3'0" to 4'0" (detected)

Features

- Pull side
- Surface mounted
- Non-handed
- Single acting
- 85° - 110° hold open
- Detected or non-detected
- Surface or concealed wiring
- Holding force 25-35 lbs.
- 2 year limited warranty

Compliance

- UL listed
- Compliant with ANSI/BHMA A156.8 and A156.15 standards
- BHMA certified 
- ANSI/C00471/C004811

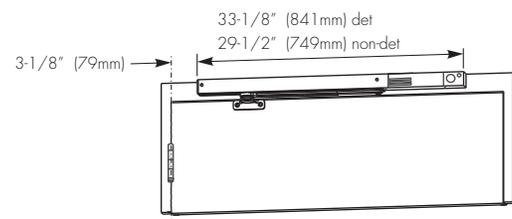
Electrical Data

- When used in conjunction with detected model, unit must be 24VDC
- Non-detected 120VAC/24VAC/DC 90mA
- Detected 120VAC/24VAC/DC 106mA standby 125mA alarm

99-926 Non-Detected Pull Side Mount 99-826 Detected Pull Side Mount



99-926 shown



How To Order

99-726 Series

⋮

99-726 Non-Detected Push Side Mounting
99-626 Detected Push Side Mounting
99-926 Non-Detected Pull Side Mounting
99-826 Detected Pull Side Mounting

120VAC Voltage

⋮

120VAC
24VAC/DC

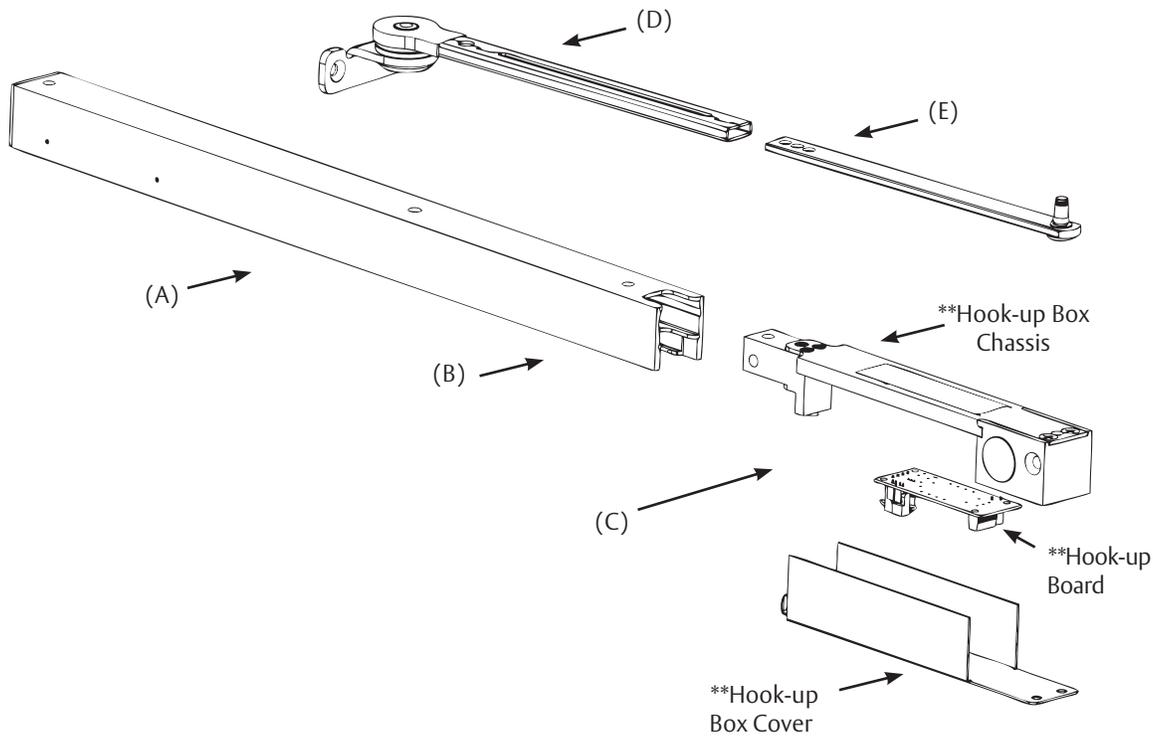
689 Finish

⋮

689 Sprayed Alum
690 Sprayed Dk Brz
691 Sprayed Lt Bron
696 Sprayed Brass
BSP Black Suede Powder

Product Comparison Chart

	99-726	99-626	99-926	99-826
Pull Side Mounting	•		•	•
Push Side Mounting	•	•		
Single Acting	•	•	•	•
Non-Handed	•	•	•	•
Detected Unit		•		•
Maximum Door Width	32" - 48"	36" - 48"	32" - 48"	36" - 48"
Hold Open Range	85°-110°	85°-110°	85°-110°	85°-110°

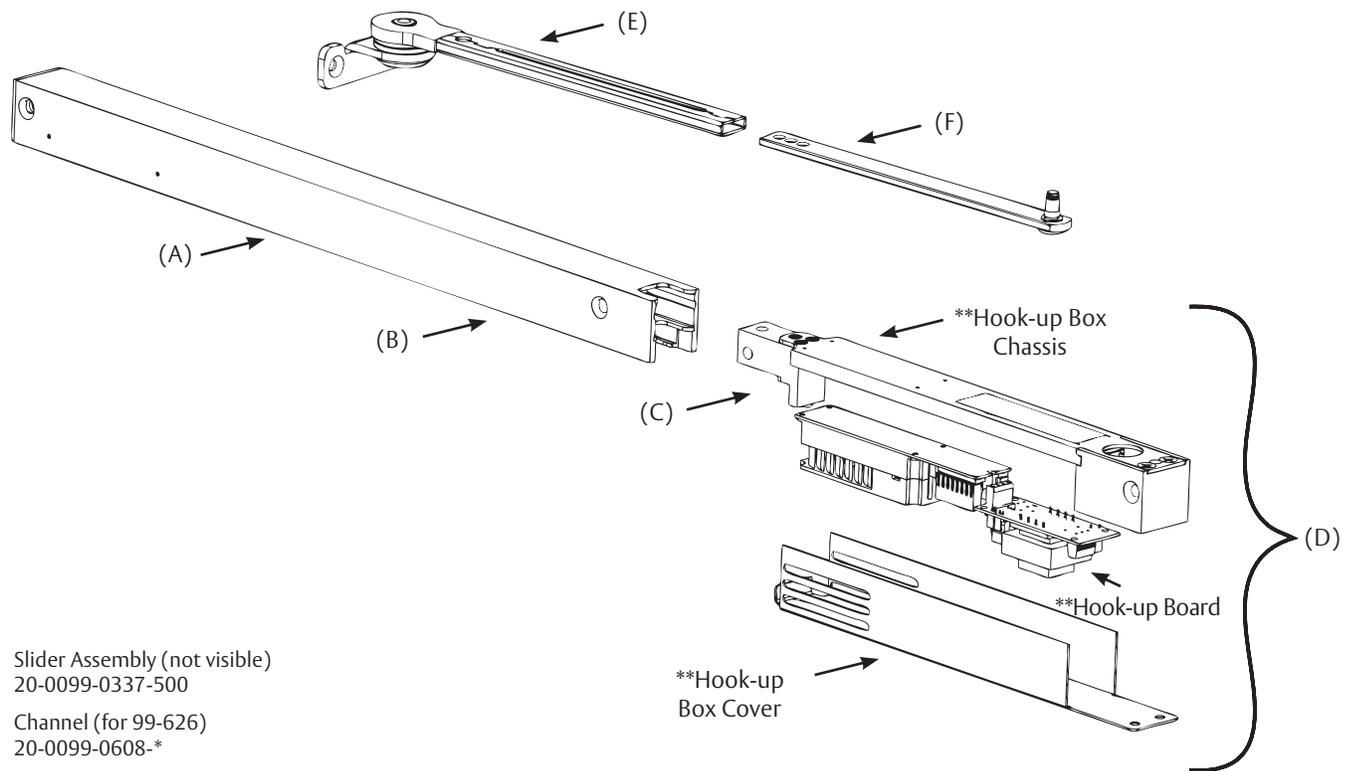


- (A) Slider Assembly (not visible)
20-0099-0337-500
- (B) Channel (for 99-726)
20-0099-0608-* (24V)
- (B) Channel (for 99-926)
20-0099-0609-* (24V)
- (C) Hook-up Box Assembly (for 99-726)
20-0099-0604-* (24V)
20-0099-0605-* (120V)
- (C) Hook-up Box Assembly (for 99-926)
20-0099-0600-* (24V)
20-0099-0601-* (120V)
- (D) Arm Bracket & Tube
20-0099-0516-*
- (E) Adjusting Rod
20-0099-0343-*

SCREW KIT
20-0040-0534-*

*specify finish

** Not sold separately. Part of hook-up box assembly



- (A) Slider Assembly (not visible)
20-0099-0337-500
- (B) Channel (for 99-626)
20-0099-0608-*
- (B) Channel (for 99-826)
20-0099-0609-*
- (C) Detector
20-0099-0610-500
- (D) Hook-up Box Assembly (for 99-626)
20-0099-0606-*(24V)
20-0099-0607-*(120V)
- (D) Hook-up Box Assembly (for 99-826)
20-0099-0602-*(24V)
20-0099-0603-*(120V)
- (E) Arm Bracket & Tube
20-0099-0516-*
- (F) Adjusting Rod
20-0099-0343-*

SCREW KIT
20-0040-0534-*

*specify finish

** Not sold separately. Part of hook-up box assembly



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Tel: 800-461-3007
Fax: 800-461-8989

For a complete listing of products and applications please visit our web site.
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ELECTROMAGNETIC DOOR HOLDER/RELEASES

Designed for remote door
release applications

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TABLE OF CONTENTS

Introduction

Rixson offers a wide range of electromagnetic door holders/releases. Designed for virtually any remote door release application, electromagnetic door holders/releases primarily hold fire doors open until released by an alarm or smoke detector.

Floor mounted units are available for single or back-to-back doors. Wall mounted units feature concealed or surface wiring, low profile projection or high hold force.



Table of Contents

How to Select Product 3

Specifications..... 4

 980M Floor Mounted..... 5

 981M Floor Mounted Back to Back Doors 5

 989, 990M Low Projection Wall Mounted..... 6

 991M Hazardous Location Wall Mounted..... 7

 993M High Hold Wall Mounted..... 7

 9930M High Hold Floor Mounted..... 7

 994M Wall Mounted Adjustable Armature 8

 996M Surface Mounted 8

 997M, 998M Wall Mounted 9

 999M Universal Wall Mounted 10

Wiring Schematics..... 11

Accessories 11

 972H Industrial Swinging Door..... 12

 972S Industrial Sliding Door 12

 972U Industrial Overhead Door 12

How to Order..... 13

Parts List..... 14-19



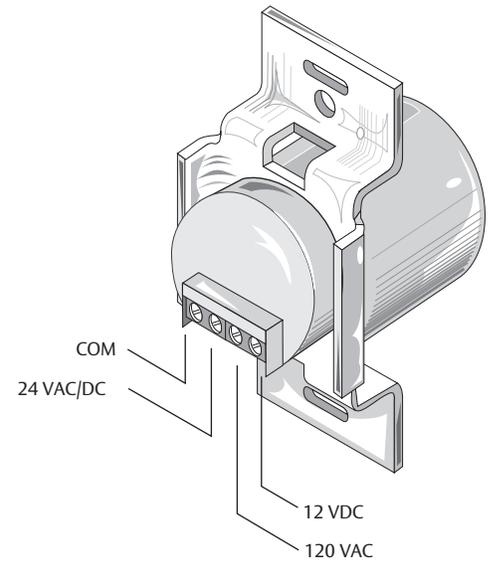
General Information

Electromagnetic door holder/releases are designed for virtually any remote door release applications. They must be used in conjunction with closing devices.

- Fire/smoke barrier doors
 - Door releases when tripped by an alarm or smoke detector
- Private offices
 - Door releases when triggered by a remote switch
- All devices come with a wall/floor portion and a door portion (armature)
- Circuit normally closed
- Door portions have screws and plates to accommodate surface and concealed mounting

Features

- 25 to 40 pounds holding power, except where noted
- Fail-safe operation; power failure releases door to close
- Positive release button initiates closing motion
- Tri-volt coils on most models see [☰☱☲](#)
- Spotting template included
- For stronger holding forces (50-55 lbs.) specify model and voltage. Not available in tri-volt coils



Certifications

- Compliant with ANSI/BHMA A156.15 Standards. See individual products for sub sections
- UL/ULC listed
- Listed by California State Fire Marshal

Specifications

All electromagnetic door holder/releases shall be supplied by architectural hardware supplier. All units shall have a single coil to accommodate 12VDC, 24VAC, 24VDC and 120VAC. The coils shall be independently wound, employing a fuse. Armatures will have positive release button.



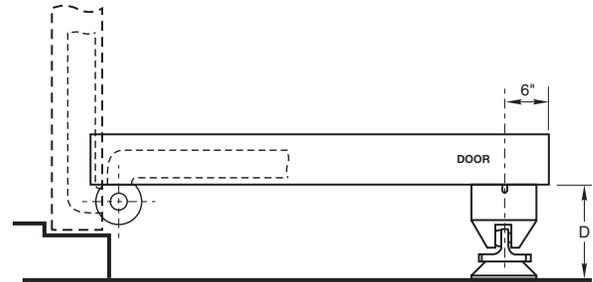
HOW TO SELECT PRODUCT

Prior to determining the product you will need to use, begin by looking at the door and perpendicular wall relationship.

- Measure the distance. That will give you the "D" dimension. Select from chart A.

Chart A

If the distance from wall to door is: "D"	Use
7/16" (11)	989
1-13/16" (46)	990M
2-5/8" (67)	997M
3-5/8" (92)	998M
3-3/4" (95)	994M
4-1/8" (105)	996M
4-3/8" (111)	999M
5-1/8" (130)	998M x XK996M
6-5/8" (168) min. distance from wall	980M
6-3/4" distance between doors	981M



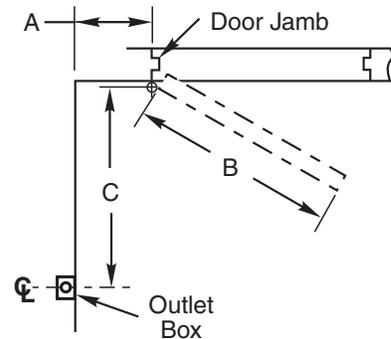
900 base has a minimum: 1-1/2" (38mm) extension. Maximum: 10" using combination of spacers [1/2" (13mm), 3/4" (19mm), etc.] Longer armature projections may encourage abuse and/or the weight of the extended rods will pull off the face of the door.

Chart B

Junction box location should always be as close as possible to the door pull/lever/knob.

A position horizontally farther toward the hinge edge will dramatically lessen the hold open force of the magnet.

A mounting too high on the vertical plane (top of door) will make it more difficult to pull out of hold open.



Refer to Diagram B

- How far is the centerline of the pivot/hinge from the wall? "A" dimension
 - What is width of door? "B" dimension
 - At what degree is the door opening? If this dimension is more than 100° consult template.
- The armature has a few degrees of adjustment but, before proceeding verify with the product template
- Dimension "C" is from pivot point to junction box centerline

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Model 980M

Application

- Floor mount
- Single door
- Shipping weight: 4 lbs. (1.8 kg)

Features

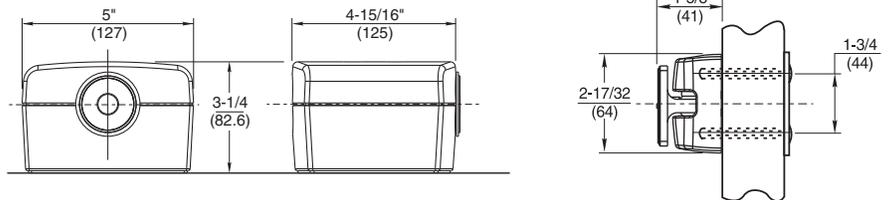
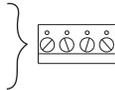
- Concealed wiring
- Total floor space required: 6-5/8" (168mm)
- Mounting requirements: conduit connects directly to floor plate
- 2 year limited warranty

Compliance

- ANSI/C00021

Electrical Data

- Voltage and current:
 - 120VAC, 60 Hz., .020 amp
 - 24VAC/DC, 60 Hz., .020 amp
 - 12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
 - 120VAC, 60Hz .017 amp
 - 24VAC, 60Hz .080 amp
 - 24VDC, .068amp
 - 12VDC, .180amp
 - 240VAC, 50/60Hz. .009 amp



Model 981M

Application

- Floor mount
- 2 back-to-back doors
- Shipping weight: 4-3/4 lbs. (2.2 kg)

Features

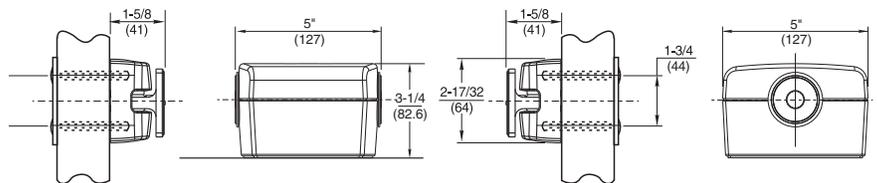
- Concealed wiring
- Floor space required: 8-1/4" (210mm)
- Mounting requirements: conduit connects directly to floor plate
- 2 year limited warranty

Compliance

- ANSI/C00031

Electrical Data

- Voltage and current:
 - 120VAC, 60Hz., .040 amp
 - 24VAC/DC, .040 amp
 - 12VDC, .080 amp
- For 50-55 lbs. of holding force, specify voltage
 - 120VAC, 60Hz .034 amp
 - 24VAC, 60Hz .016 amp
 - 24VDC, .036 amp
 - 12VDC, .360 amp
 - 240VAC, 50/60Hz. .018 amp



WALL MOUNTED

Application

- Wall mount
- Low profile
- Concealed wiring
- Shipping weight: 2 lbs. (0.9 kg)

Features

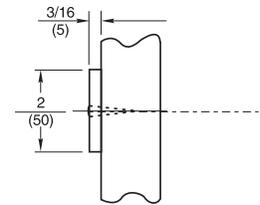
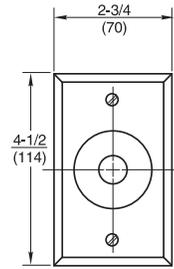
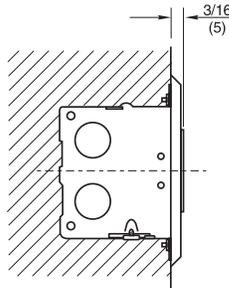
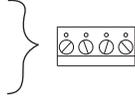
- Total projection: 7/16" (11mm)
- Mounting requirements: 2" x 4" x 2-1/2" (51 x 102 x 64mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance

- ANSI/C00011

Electrical Data

- Voltage and current:
 - 120VAC, 60Hz., .020 amp
 - 24VAC/DC, 60Hz., .020 amp
 - 12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
 - 120VAC, 60Hz .017 amp
 - 24VAC, 60Hz .080 amp
 - 24VDC, .068amp
 - 12VDC, .180amp
 - 240VAC, 50/60Hz. .009 amp



Application

- Wall mount
- Low profile
- Concealed wiring
- Shipping weight: 2 lbs. (0.9 kg)

Features

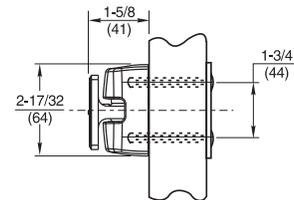
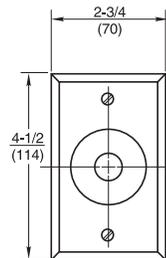
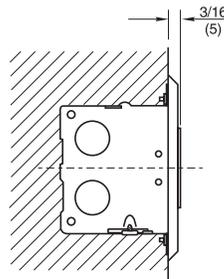
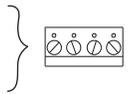
- Total projection: 1-13/16" (46mm)
- Mounting requirements: 2" x 4" x 2-1/2" (51 x 102 x 64mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance

- ANSI/C00011

Electrical Data

- Voltage and current:
 - 120VAC, 60Hz., .020 amp
 - 24VAC/DC, 60Hz., .020 amp
 - 12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
 - 120VAC, 60Hz .017 amp
 - 24VAC, 60Hz .080 amp
 - 24VDC, .068amp
 - 12VDC, .180amp
 - 240VAC, 50/60Hz. .009 amp



Model 990M

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Model 991M

ELECTROMAGNETIC DOOR HOLDER/RELEASES SPECIAL PURPOSE WALL MOUNTED

Application

- Wall mount
- Surface wiring
- Hazardous locations
- Shipping weight: 3 lbs. (1.4 kg)

Features

- Total projection: 4" (101mm)
- Approved for class I division 2, class II division 2, groups F and G and class III locations
- Unit includes a sealed surface-mounted junction box
- 2 year limited warranty

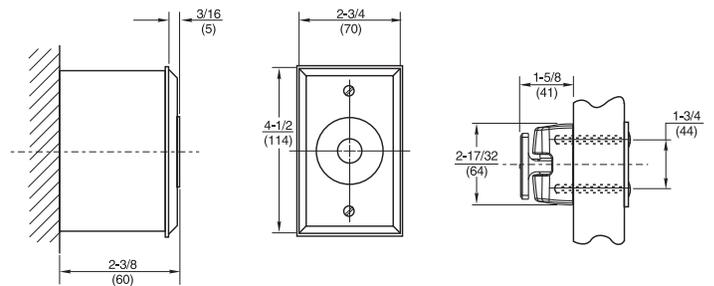


Compliance

- ANSI/C00011

Electrical Data

- Voltage and current:
 - 120VAC, 60Hz., .017 amp
 - 24VAC, .080 amp
 - 12VAC, .180 amp
 - 24VDC, .068 amp
 - 240VAC, 50/60Hz., .009 amp



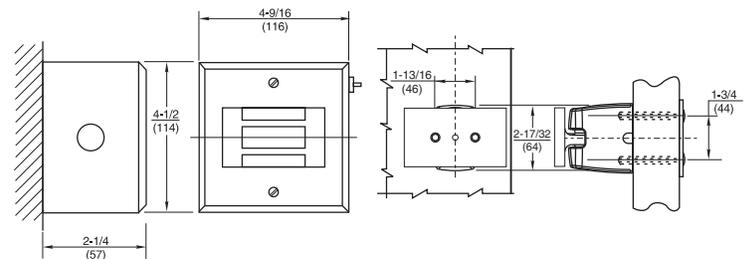
Model 993M

Application

- High hold
- Surface or concealed mounting
- Floor or wall application
- Shipping weight: 3 lbs. (1.4 kg)

Features

- 300 lb. holding force
- Total projection: 5-1/4" (133mm)
- Switch box included 4-1/2" x 4-9/16" x 2-5/16" (114 x 116 x 59mm) deep
- Armature plate thru-bolted to maintain consistent contact with magnet
- Adjusting screw on special heavy-duty armature allows for alignment of contact plate
- 9930M Floor mount available
- Unit has test switch – may be ordered without switch if door will be pulled out of hold open very often
- Use key switch to release (by others)
- Substantial wall reinforcement required
- 2 year limited warranty



Electrical Data

- Voltage and current: 24VAC/DC .25 amp

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Application

- Wall mount
- Adjustable armature
- Concealed wiring
- Shipping weight: 2 lbs. (0.9 kg)

Features

- Total projection: 3-3/4" (95mm)
- Adjustable armature rotation up and down, back and forth for better alignment.
- Cannot be use with 900 base or spacers.
- Can be used without adjustment piece making it a model 997
- Mounting requirements: 2" x 4" x 2-1/2" (51 x 102 x 64mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

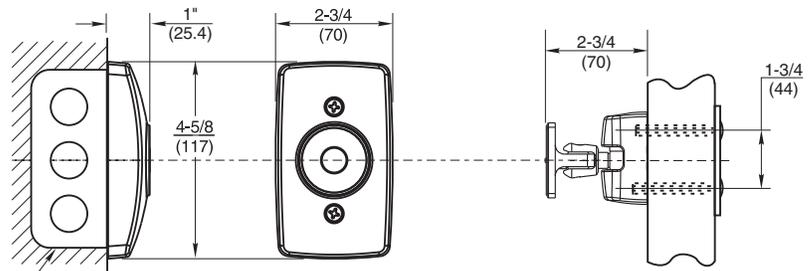
Compliance

- ANSI/C00011

Electrical Data

- Voltage and current:

120VAC, 60Hz., .020 amp	} 
24VAC/DC, 60Hz., .020 amp	
12VDC, .040 amp	
For 50-55 lbs. of holding force, specify voltage	
120VAC, 60Hz .017 amp	
24VAC, 60Hz .080 amp	
24VDC, .068amp	
12VDC, .180amp	
240VAC, 50/60Hz. .009 amp	



Application

- Wall mount
- Surface wiring
- Shipping weight: 3 lbs. (1.4 kg)

Features

- Total projection: 4-1/8" (105mm)
- Mounting requirements: 1-1/2" (38mm) deep adapter housing
- Wall must be properly reinforced
- 2 year limited warranty

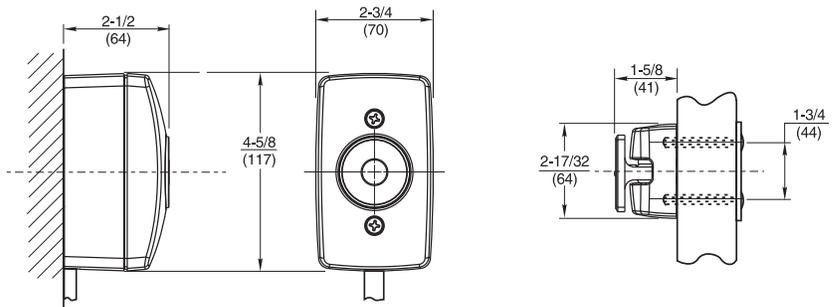
Compliance

- ANSI/C00011

Electrical Data

- Voltage and current:

120VAC, 60Hz., .020 amp	} 
24VAC/DC, 60Hz., .020 amp	
12VDC, .040 amp	
For 50-55 lbs. of holding force, specify voltage	
120VAC, 60Hz .017 amp	
24VAC, 60Hz .080 amp	
24VDC, .068amp	
12VDC, .180amp	
240VAC, 50/60Hz. .009 amp	



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Model 997M

Application

- Wall mount
- Concealed wiring
- Shipping weight: 2 lbs. (0.9 kg)

Features

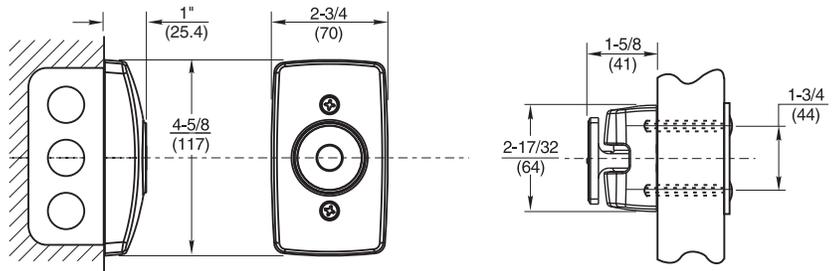
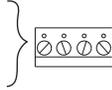
- Total projection: 2-5/8" (67mm)
- Mounting requirements: 2" x 4" x 1-3/4" (51 x 102 x 45mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance

- ANSI/C00011

Electrical Data

- Voltage and current:
 - 120VAC, 60Hz., .020 amp
 - 24VAC/DC, 60Hz., .020 amp
 - 12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
 - 120VAC, 60Hz .017 amp
 - 24VAC, 60Hz .080 amp
 - 24VDC, .068amp
 - 12VDC, .180amp
 - 240VAC, 50/60Hz. .009 amp



Model 998M

Application

- Wall mount
- Concealed wiring
- Shipping weight: 2-1/2 lbs. (1.1 kg)

Features

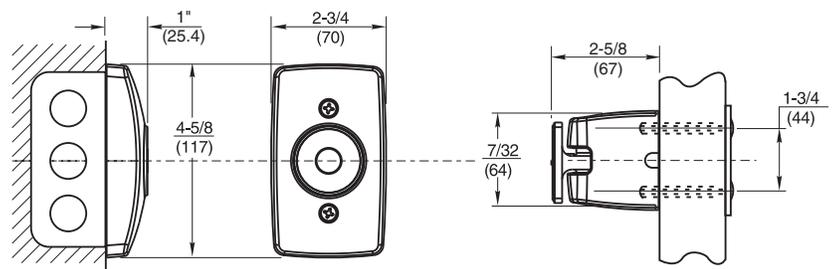
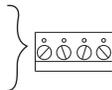
- Total projection: 3-5/8" (92mm)
- Mounting requirements: 2" x 4" x 1-3/4" (51 x 102 x 45mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance

- ANSI/C00011

Electrical Data

- Voltage and current:
 - 120VAC, 60Hz., .020 amp
 - 24VAC/DC, 60Hz., .020 amp
 - 12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
 - 120VAC, 60Hz .017 amp
 - 24VAC, 60Hz .080 amp
 - 24VDC, .068amp
 - 12VDC, .180amp
 - 240VAC, 50/60Hz. .009 amp



Application

- Universal mounting
- Shipping weight: 2-3/4 lbs. (1.2 kg)

Features

- Base plate; concealed wiring
- Total projection: 4-3/8" (111mm)
- Mounting requirements: 2" x 4" (51 x 102mm) outlet box; 4" (102mm) square box; 4" (102mm) octagonal box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

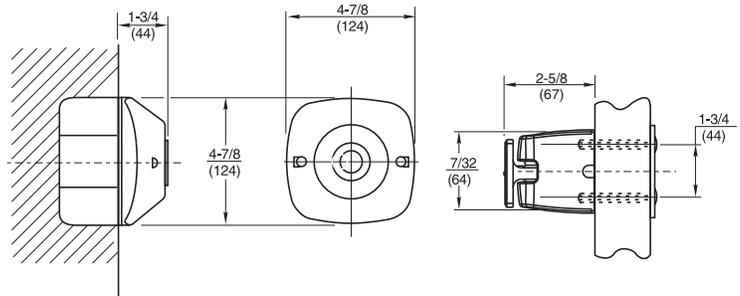
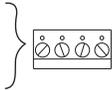


Compliance

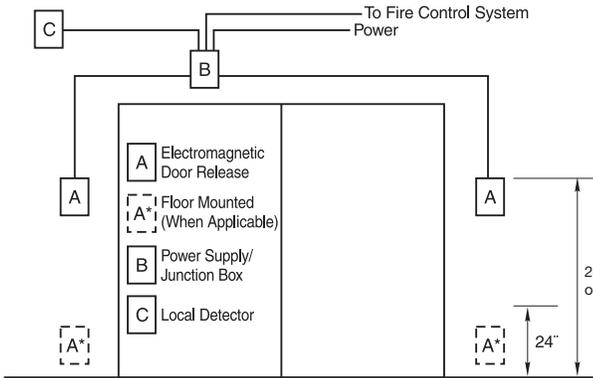
- ANSI/C00011

Electrical Data

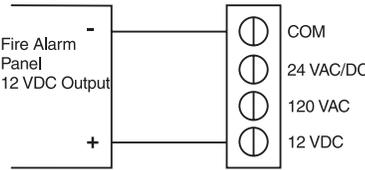
- Voltage and current:
 - 120 VAC, 60 Hz., .020 amp
 - 24 VAC/DC, 60 Hz., .020 amp
 - 12 VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
 - 120VAC, 60Hz .017 amp
 - 24VAC, 60Hz .080 amp
 - 24VDC, .068amp
 - 12VDC, .180amp
 - 240VAC, 50/60Hz. .009 amp



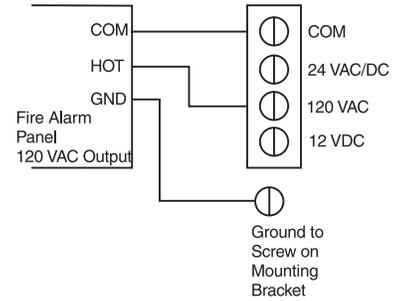
Schematics



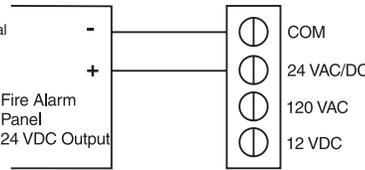
12 VDC Wiring



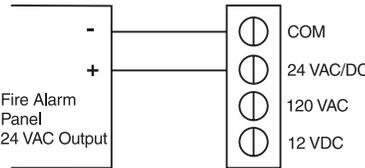
120 VAC Wiring



24 VDC Wiring



24 VAC Wiring



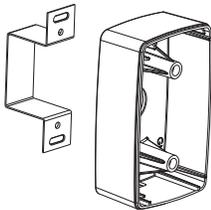
Electrical Specifications:
12VDC @ .040AMPS
24 VAC/DC @ .020 AMPS
120 VAC @ .020 AMPS
(or see specific model)

NOTE: All wiring must be installed in compliance with the National Electrical Code and the local codes having jurisdiction. Proper wire gauge should be used.

Operation Narrative

Doors are to be normally held open. The electromagnetic door releases will be energized with the voltage shown (at right) in the hardware set for this opening. Power shall be controlled by the fire control system. It will interrupt the power if alarmed, causing the doors to be released, thus allowing the door closers to close the doors. When power is restored the magnets will re-energize, permitting the doors to be manually returned to their held open position.

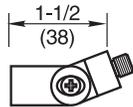
Accessories



1-1/2" (38mm)
Base Unit Armature Extension Mounts between armature and contact plate. Part# 900
Cannot be used with model 994M

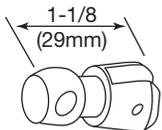
1-1/2" (38mm) Extension (for use only with Models 997M, 998M & 994M) Mounts behind wall cover.

XK996M
Part# 996631M-*



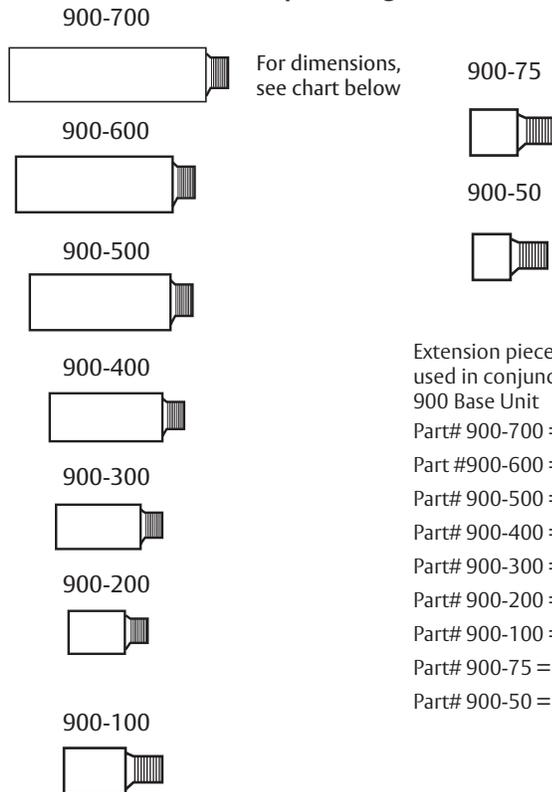
1-1/2" (38)
Armature Extension 90° Bend Part# 900-Z
Must be used with 900 base unit. Those two pieces will extend armature 3" longer than the contact plate.

994M Swivel Armature (cannot be used with extension spacers)
Part# 900-3



*specify finish

Spacer lengths – must be used with 900 base



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The Rixson® 972 Industrial Door Release is listed by Underwriters' Laboratories as a substitute for fusible links in such applications as overhead rolling doors, guillotine doors, fire dampers and self-closing windows. These heavy-duty units provide automatic release when triggered by a smoke detector, manual pull station, test button on unit, or other electrically operated switch.

Application

- 972H for swinging doors
- 972S for sliding doors
- 972U for overhead doors
- Specify model number and voltage

Features

- Shipping weight: 5 lbs. (2.3 kg)
- 2 year limited warranty

Compliance

- ANSI/C00041

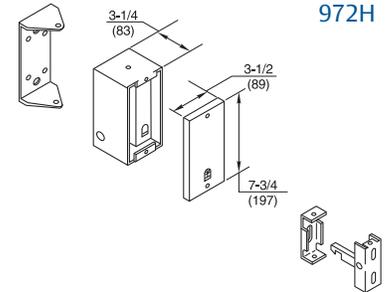
Electrical Data

- Voltage and current:
 - 120VAC, 60Hz., .150 amp
 - 24VAC, 60Hz., .150 amp
 - 24VDC, .08 amp
 - 12VDC, .08 amp
- Holding force 75 lbs

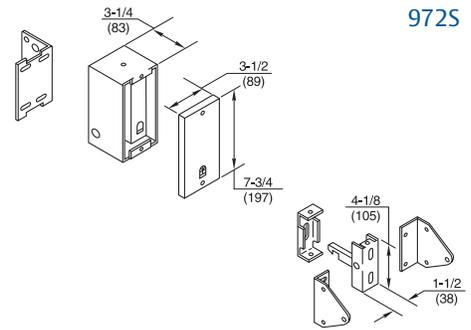
Code Listings:

- Underwriters' Laboratories, Inc.
- Underwriters' Laboratories of Canada
- State of California (3550-047:13)

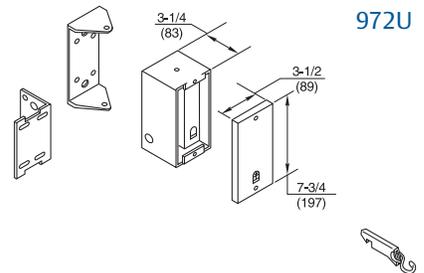
972H for Swinging Doors



972S for Sliding Doors



972U for Overhead Doors



**998M
Series**

980M	Floor Mounted
981M	Floor Mounted Back to Back Doors
989	Low Projection Wall Mounted
990M	Low Projection Wall Mounted
991M	Hazardous Location Wall Mounted
993M	High Hold Wall Mounted
9930M	High Hold Floor Mounted
994M	Wall Mounted Adjustable Armature
996M	Surface Mounted
997M	Wall Mounted
998M	Wall Mounted
999M	Universal Wall Mounted
972H	Industrial Swing Door Holder
972S	Industrial Sliding Door Holder
972U	Industrial Overhead/Rolling Door

**120VAC
Voltage**

BLANK	TRI-VOLT
24VAC/DC	*24VAC/DC
12VDC	*12VDC
12VAC	*120VAC 120VAC
*240VAC	
240VAC	

**689
Finish**

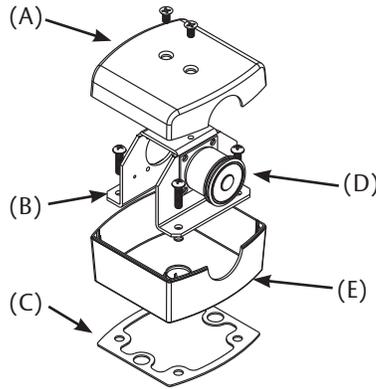
689	Sprayed Alum
690	Sprayed Dk Brz
691	Sprayed Lt Brz
693	Sprayed Black
696	Sprayed Brss
BSP	Black Suede Powder

* When voltage is specified, these electromagnetic door holder/releases will have 50-55 lbs. of holding force.

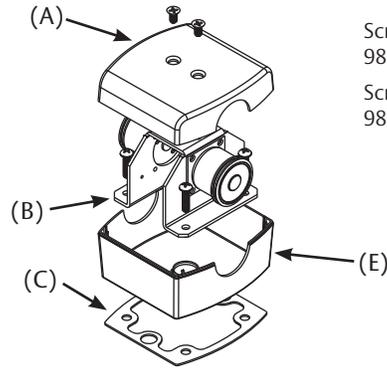
Floor Portion

- (A) Magnet Housing Cover
980311M-* / 981311M-*
- (B) Magnet Support Bracket
981309
- (C) Gasket
980095M
- (D) Magnet
**996219-3V
- (E) Magnet Housing Base
980312M-* / 981312M-*

**For voltages other than (tri-volt 12 VDC, 24 VAC, 24 VDC, and 120 VAC), contact factory for electromagnet assembly part number.



980M



981M

SCREW KITS

Screw Kit for 980M
980328-*

Screw Kit for 981M
981328-*

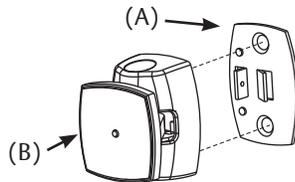
Door Portion

- (A) **Backup Plate
900314
- (B) Door Armature
997510M-*
- (C) **Door Plate*
998009

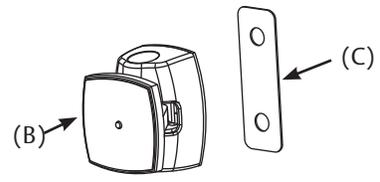
**Not Sold Separately – See Screw Kit

*specify finish

Door portion screws included with
Wall/Floor parts.



Surface Applied Concealed Mounting
Recommended for Solid Wood Doors Only

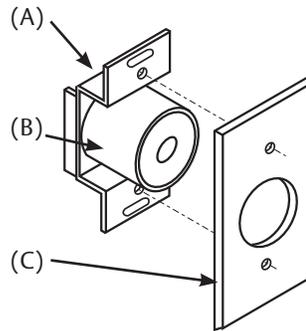


Thru Bolt Mounting
Recommended for Hollow Metal, Hollow
Core or Composite Type Wood Doors

Used With Model 990M, 989

Wall Portion

- (A) Magnet Bracket
990002
- (B) Magnet
**996219-3V
- (C) Wall Cover Plate
990001



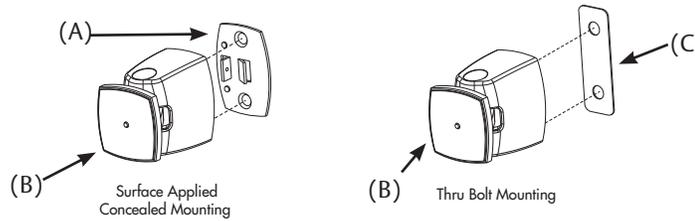
SCREW KITS
Screw Kit for 990M
990300-*

**For voltages other than (tri-volt 12 VDC, 24 VAC, 24 VDC, and 120 VAC), contact factory for magnet mounting bracket assembly part number.

Used With Model 998M, 999M

Door Portion

- (A) Backup Plate
900314
- (B) Door Armature
998512M-*
- (C) Door Plate
998009



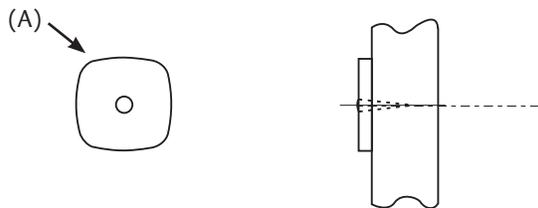
SCREW KITS
See Screw Kit for 998M
998303-*

*specify finish
Door portion screws included with Wall/Floor parts.

Used With Model 989

Door Portion

- (A) Door Armature
Attachment screw
included in Kit.
444FM

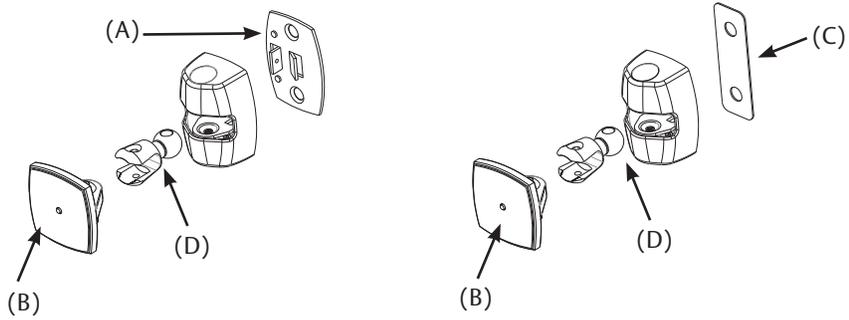


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Used With Model 994M

Door Portion

- (A) **Backup Plate
900314
- (B) Adjustable Armature
994510M-*
- (C) **Door Plate
998009
- (D) Adjustment Piece
900-3*

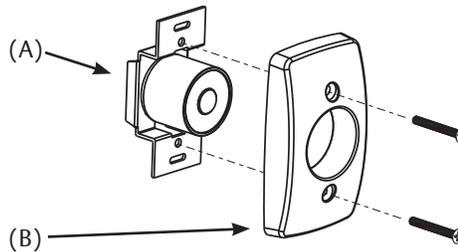


**Not Sold Separately – See Screw Kit
*specify finish
Door portion screws included with Wall/Floor parts.

Used With Model 994M, 997M, 998M

Wall Portion

- (A) Magnet Assembly and Bracket
**998369-3V
- (B) Cover
998315M-*



**For voltages other than (tri-volt 12 VDC, 24 VAC, 24 VDC, and 120 VAC), contact factory for magnet mounting bracket assembly part number.

SCREW KITS
Screw Kit for
994M/997M
998300-*

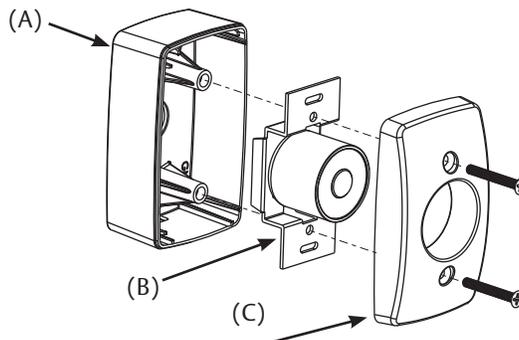
SCREW KITS
Screw Kit for
998M
998303-*

*specify finish

Used With Model 996M

Wall Portion

- (A) Surface Mounting Box Housing
996501M-*
- (B) Magnet Assembly and Bracket
**996369-3V
- (C) Cover
998315M-*



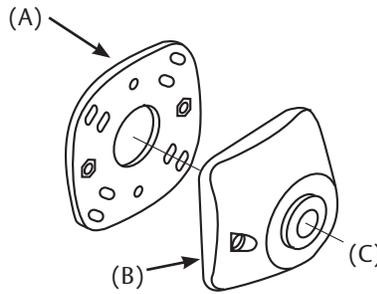
SCREW KITS
Screw Kit for 996M
996325-*

*specify finish
**For voltages other than (tri-volt 12 VDC, 24 VAC, 24 VDC, and 120 VAC), contact factory for magnet mounting bracket assembly part number.



Wall Portion

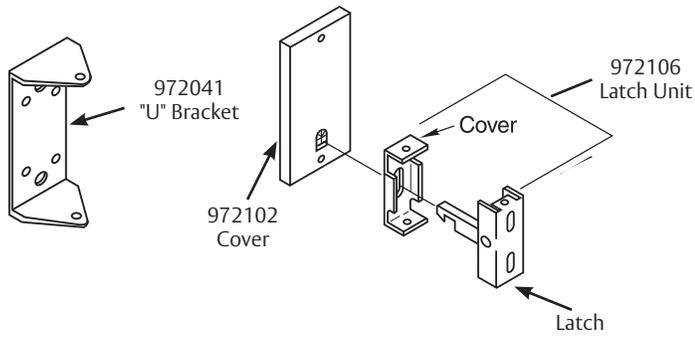
- (A) Base Plate
999105
- (B) Cover
999055-*
- (C) Magnet
**996219-3V



SCREW KITS
Screw Kit for 999M
999318-*

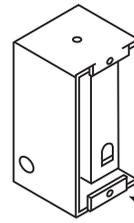
*specify finish

**For voltages other than (tri-volt 12 VDC, 24 VAC, 24 VDC, and 120 VAC), contact factory for magnet mounting bracket assembly part number.

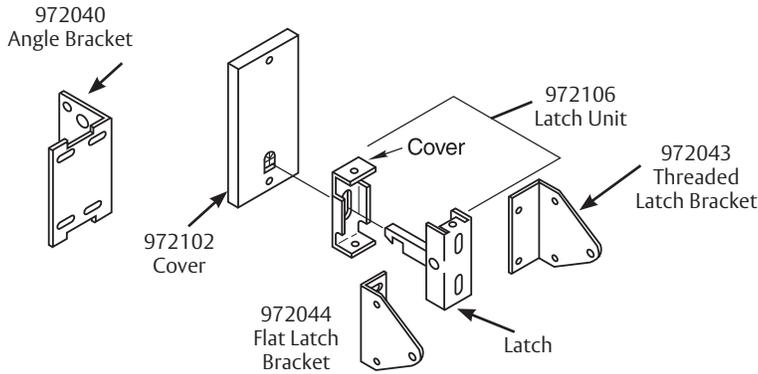


Used With Model 972H

Screw Kit for 972H:
972190

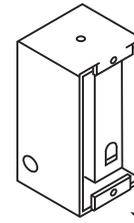


Box
972100-12 VDC
972112-24 VAC
972118-120 VAC
972120-24 VDC

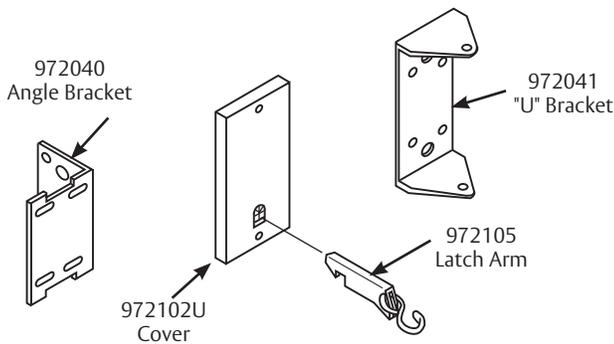


Used With Model 972S

Screw Kit for 972S:
972290

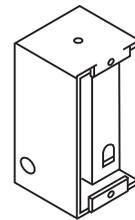


Box
972100-12 VDC
972112-24 VAC
972118-120 VAC
972120-24 VDC



Used With Model 972U

Screw Kit for 972U:
972390



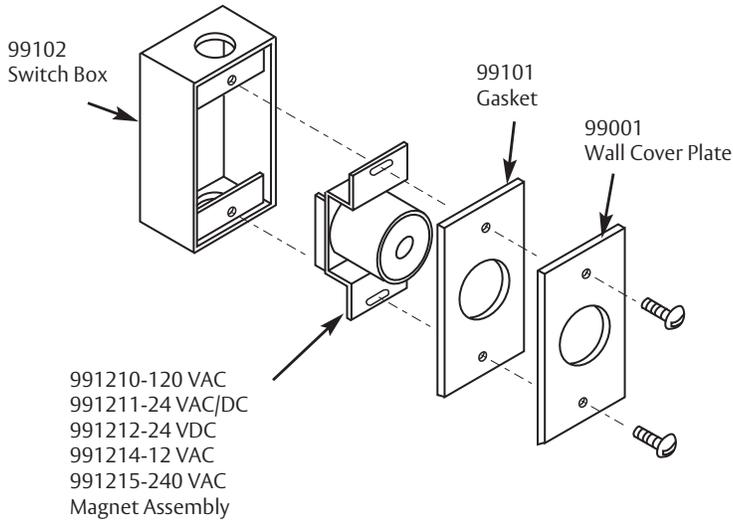
Box
972100-12 VDC
972112-24 VAC
972118-120 VAC
972120-24 VDC

*specify finish

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Used With Model 991M

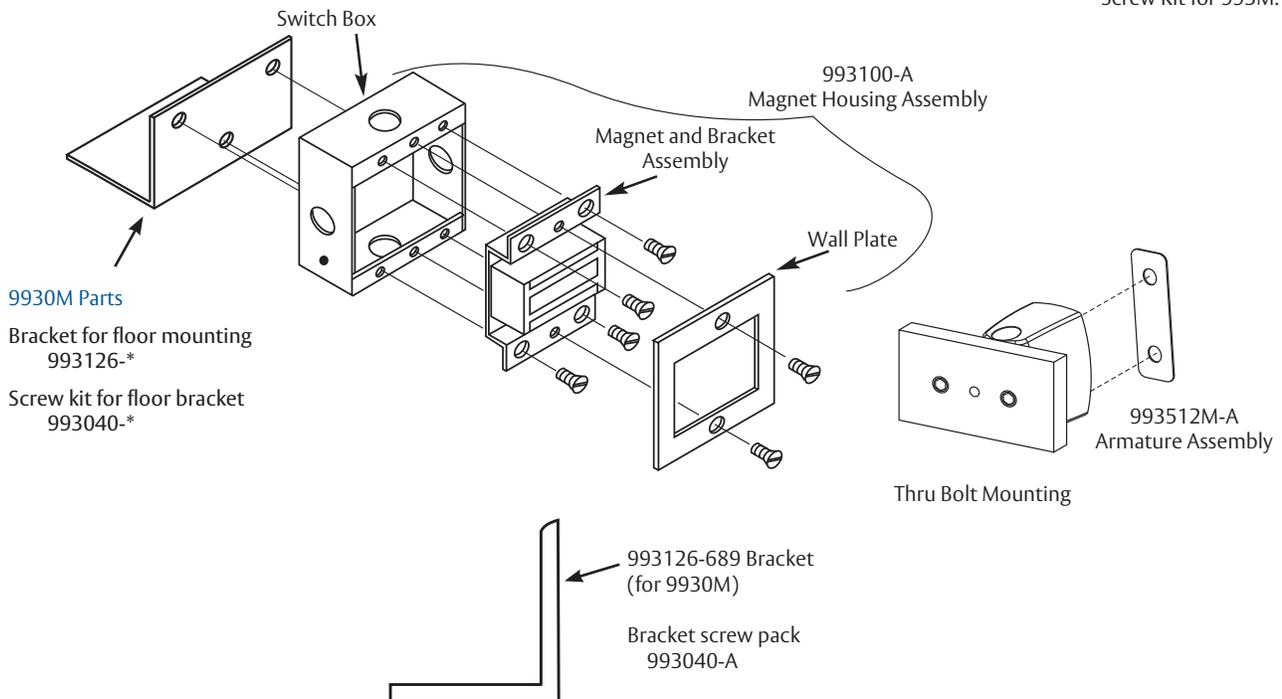
Wall Portion



Screw Kit for 991M: 990300-*

*specify finish

Used With Model 993M/9930M



Screw Kit for 993M: 993300-A



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RIXSON
ASSA ABLOY

CONTACT US AT:

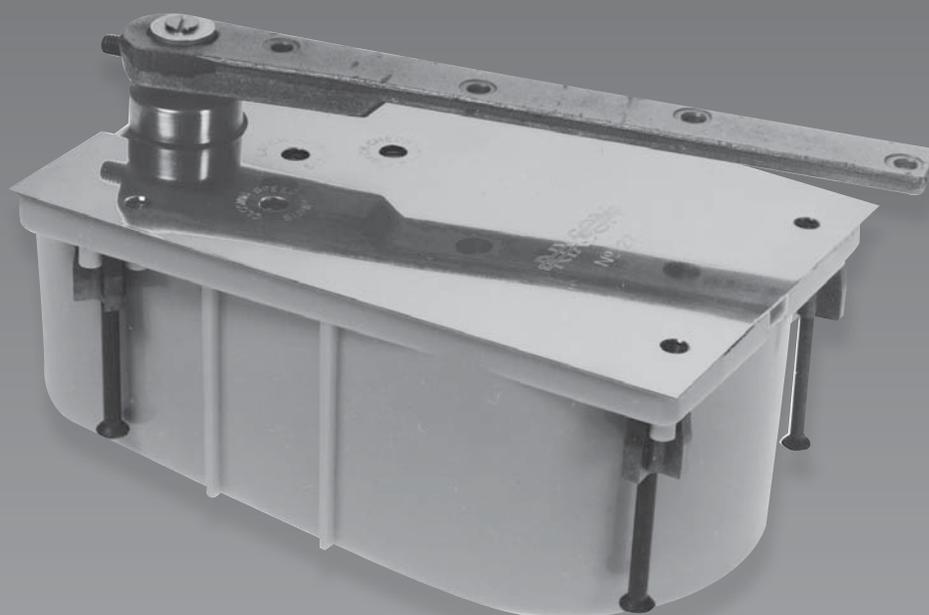
Rixson®
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Monroe, NC 28112
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ASSA ABLOY Door Security Solutions Canada
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Vaughan, Ontario, L4K 4T9 Canada
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Fax: 800-461-8989

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assaabloydss.ca

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HEAVY-DUTY FLOOR CLOSERS

Complete Door Control for Exterior and
Interior, High Traffic, Heavy Doors,
Where Concealment is Desired

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TABLE OF CONTENTS

TABLE OF CONTENTS

General Information.....	3
How to Select Product.....	4-5
Options.....	6-7
Certifications, Limited Warranty, Specifications.....	7
Offset Floor Closers	
27 Closer.....	8
27-180 Closer.....	9
27 Parts List.....	10
127 Closer.....	11
427 Closer.....	12
127, 427 Parts List.....	13
F327 Closer Independently Hung.....	14
F327 Parts List.....	15
L27 Closer.....	16
L27-180 Closer.....	17
L27 Parts List.....	18
Q/QT27 Closer.....	19
Q/QT27 Parts List.....	20
HM27 Closer.....	21
HM27 Parts List.....	22
20 Closer.....	23
20 Parts List.....	24
Intermediate Pivots & Hinges	
119, M19/M190.....	25
ML19, FA19.....	26
Single-Acting Center Hung Floor Closers	
28 x 554 Closer.....	27
28 Closer.....	28
28 Parts List.....	29
H28, H28 x 587 Closers.....	30
H28 Parts List.....	31
328 Closer for Patch Fittings (Patch Fittings by Others).....	32
428 Closer with Patch Fittings.....	33
328, 428 Parts List.....	34
EH28, EH28 x 587 Closers.....	35
Double-Acting Center Hung Floor Closer	
30 Closer.....	36
40 Closer.....	37
30, 40 Parts List.....	38
H40, H40 x 587 Closers.....	39
H40 Parts List.....	40
Optional Center Hung Top Pivots	
345, H345.....	41
How To Order.....	42
Product Comparison Charts.....	43-45

Floor closers provide the best mechanical means to support and control a door. They are designed to work with the laws of physics to provide long-lasting performance and reliability.

The weight of the door is supported by bottom arm and floor

- Door swings with less resistance
- Heavier doors can be accommodated
- Reduced stress on frame
- Fasteners are in shear, not tension
- Eliminates door sag
- Vertically adjustable

Heavy-duty, hardened, one piece steel spindles

- Designed to provide positive dead stop
- Thrust bearing supports vertical load
- Needle bearings for lateral forces
- Extra heavy-duty models also have an additional surface applied thrust bearing to handle heavier doors or doors that have very high traffic

Bottom arm attached directly to closer spindle

- A mechanical advantage that increases efficiency insuring that ICC/ANSI A117.1 compliant, lower opening forces, will still close the door
- One to one ratio of door swing to spindle rotation makes control more precise
- Floor closers are more efficient than a regular arm surface closer

Helical torsion spring

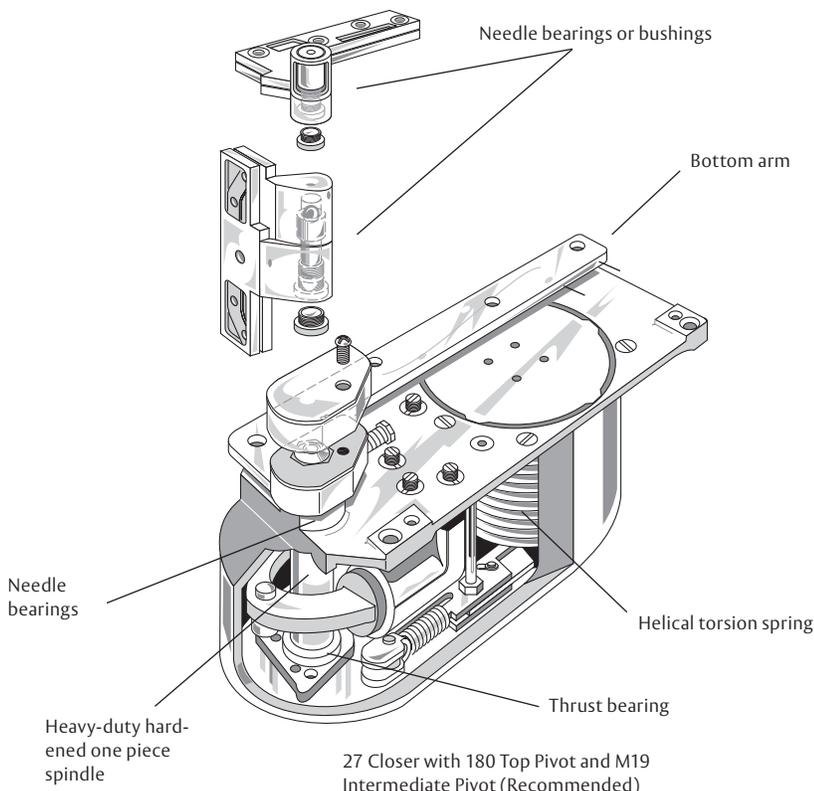
- Operates in same direction as door movement and contributes to even higher closer efficiency
- A torsion spring has a much longer life than standard compression springs

Advantages of concealed floor closers

- Aesthetics – let the beauty of the door and its surroundings take center stage
- Vandal resistant – mechanism not exposed
- The solution for arch top doors – offset floor closers
- Both mechanical advantage and aesthetics – a concealed floor closer exclusive

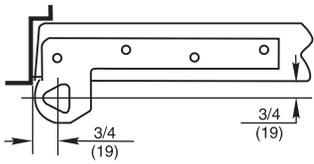
Choose from many different models

- Use standard product with a top pivot for the best efficiency
- Use a quick install (Q) model to facilitate easy closer removal
- Use extra heavy-duty (L & H) (L-offset) (H-center hung) models for higher traffic/lead lined or extremely heavy doors
- Use model HM with 3/4" offset hinges for hollow metal doors and frames prepared for 4-1/2" hinges
- Closers can be offset hung, center hung or independently hung, single or double acting (center hung only)

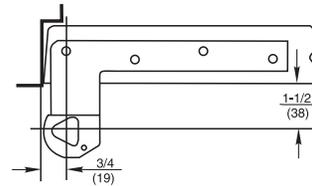


HOW TO SELECT A PRODUCT

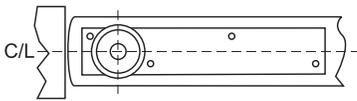
1. Offset Vs. Center Hung Application



3/4" Offset
Pivot point located 3/4" from the heel edge of the door and 3/4" from face of door



1-1/2" Offset
Pivot point located 3/4" from the heel edge of the door and 1-1/2" from face of door. Used on doors with cladding on face or trim on frame



Center Hung
Pivot point centered in thickness of door. Distance from heel edge can vary 2-3/4" and up. **Not for use on fire rated doors.**

2. Size of Door (Width, Height, Thickness)

Door Material	Door Thickness		
	1-3/4"	2-1/4"	3"
Hollow Metal	6.5	7	—
Solid Core Wood	7	9	11.5
Aluminum/Glass Storefront	3.5	4	—
Bullet Resistant	20	21	
MDF	7	9	11.5
	Glass Thickness		
Tempered Glass	3/8"	1/2"	3/4"
	5	7	9.75
	Lead Thickness		
Lead Lining (add to door material weight)	1/16"	1/8"	1/4"
	5	8	9.75
	Cladding Material		
3/4" Cladding (add to door material weight)	Wood	Stone	Bronze
	3	10.5	28

Example: 3/0 X 7/0 X 1-3/4" WD X 1/4" Lead lining
 Door: 21sq ft x 7lb./sq ft = 147lbs
 Lead Lining: 21sq ft x 9.75lb./sq ft = 204.75lbs
 Total Door weight 351.75lbs

Example: 3/6 X 8/0 X 1/2" Tempered Glass Door
 Door: 28sq ft x 7lb./sq ft = 196lbs

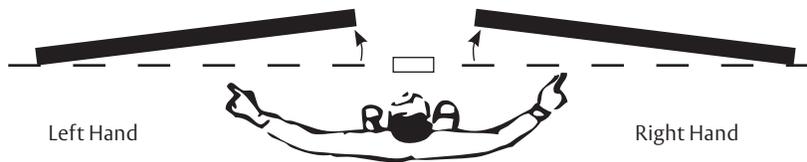
For doors of other sizes consult factory



3. Expected Frequency of Door Opening

Application	Daily	Yearly	
Large department store entrance	5,000	1,500,000	High
Large office building entrance	4,000	1,200,000	
Theater entrance	1,000	365,000	
School entrance	1,250	225,000	
School restroom door	1,250	225,000	
Store or bank entrance	500	150,000	
Office building restroom door	400	118,000	
School corridor door	80	15,000	Average
Office building corridor door	75	22,000	
Store restroom door	60	18,000	
Residential entrance door	40	15,000	
Residential restroom door	25	9,000	Low
Residential hallway door	10	3,600	
Residential closet door	6	2,200	

How to Determine Hand of Door



Face a door swinging open away from you. If it opens to the right, it is right handed. If it opens to the left, it is left handed.



OPTIONS

Automatic Hold Open – Suffix A

These closers hold the door open. This feature cannot be changed in the field. Models 27-180, 30 & 40 only.

Cold Weather Fluid – Suffix CWF

Cold weather fluid should be specified for exterior doors in consistently cold climates under 32° F for weeks at a time. The hydraulic fluid is of a lower viscosity to prevent sluggish closing. Cannot be used with the delayed action feature.

Cover Pan (Terrazzo) – Suffix Part Number

Closers should always be accessible. They should never be buried beneath flooring materials. A cover pan sits on top of the closer and has the flooring material set in it. This way the sight line for the floor is consistent. Cover pans may require closers with longer spindles. See cover pan template to determine spindle length needed.

Degree of Swing – Follows Model Number

Single acting heavy-duty floor closers have a deadstop. This means that the door cannot go past a certain point. If ordered as a hold open closer, the hold open position is exactly the same as the deadstop. The degrees available are 85°, 90°, 95° or 105° (180° for model 27 only). It is recommended that the maximum degree of swing be ordered.

Double acting closers have a deadstop at 103° and are available with hold open options at 90° or 100°.

Delayed Action – Prefix DA

After full open, permits door to remain ajar (at 70 degrees) for up to 40 seconds. Operates by separate valve and can be shut off if not needed. Not available on closers with hold open feature.

Door Thickness – Suffix 1-3/4, 2, 2-1/4, 2-1/2 or 3

When ordering L product for lead lined doors, the thickness of the door must be given. The purpose of the L product is to have screws spaced so that they straddle the lead in the center of the door. Also used when lead lining is under the skins of the door. Recommended for use on extra heavy or high traffic doors.

Extended Spindle – Suffix Extra Length

Any special floor coverings, or severe door undercuts, will affect the spindle height. In these applications an extended spindle may be required. See product template to determine if an extended spindle is needed. Extended spindles available in 1/2" increments up to 2" longer than standard.

Fire Rated – Prefix F 

Closer packages for fire rated doors (up to 3 hours) include a steel top pivot and must have additional steel intermediate pivots. These closers are non-hold open.

Hand- Suffix RH or LH

All single acting floor closers are handed. All double acting floor closers (30, 40, H40) are non-handed.

Less All Parts – Suffix LAP

If a closer is needed for replacement, the arm, cover, cement case, top pivot and floor plate are omitted.

Less Cement Case – Suffix LCC

For existing installations or when cement case has been sent earlier in construction. Closer will be packaged without the cement case.

Less Floor Plate – Suffix LFP

When thresholds or cover pans are being used, the closer doesn't need the decorative floor plate.

Less Top Pivot – Suffix LTP

For unusual head conditions, where the top pivot cannot be used, the closer is shipped without the top pivot. For offset installations, an additional load bearing intermediate (side jamb) M190 pivot is required. All intermediate pivots for that opening should be M190's, not M19's.

Non Hold Open – Suffix N

These closers do not hold the door open. This feature cannot be changed in the field.

1-1/2" Offset – Suffix 1-1/2

Offset is the distance from the face of the door to the pivot point. Extended offsets should not be used unless there is cladding on the face of the door or there is trim to clear on the frame. 1-1/2" offset arms and pivots are for doors with cladding or trim that project 3/4" from the face of the door.

Physically Handicapped – Prefix PH 

To comply with ICC/ANSI A117.1 established by the Americans with Disabilities Act. PH prefix indicates 5 pounds of opening force, based at 30" from centerline of pivot. PH closers may not be used on labeled fire doors or exterior doors. Rixson accepts no responsibility for PH closers and door latching. Also, be advised that ADA guidelines DO NOT apply to fire rated openings or exterior doors.

8-1/2 Lbs. Opening Force – Prefix PH Suffix 8-1/2

This is a lighter than normal opening force. Be aware that this may not be strong enough to close fire rated or exterior doors. Rixson accepts no responsibility for PH closers and door latching. Also, be advised that ADA guidelines DO NOT apply to fire rated openings or exterior doors.

Sealed Closer – Prefix SC

This option for exterior doors or interior doors, with heavy exposure to water or cleaning solvents, protects the body. The closer body is placed in the cement case. A stainless steel cover plate is then gasketed and fastened to the cement case. This must be ordered with closer and cannot be ordered less the cement case.

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Selective Hold Open – Suffix S

These closers can be set to hold open or non-hold open. This is done via a screw control on the top of the closer. Available on Models 27 and 28 only.

Special Layouts – Suffix SPLO #

Unique installations or specially engineered products are called special layouts. These numbers must be assigned by the technical support department and they must be called out specifically, by their number, when ordered.

Twenty Minute Label – Suffix -20 

This UL rating is for 20 minute doors. Pivots are brass base material and include a visible label.

Wood Door – Prefix W

When using a center hung product with the centering arm (e.g. 28, 30 or 40) a special plate and less obtrusive adjusting screws are needed for wood doors. This plate is reinforcement to the deep mortise required for that arm, protecting veneer.

CERTIFICATIONS 

All Rixson® heavy-duty floor closers are in compliance with ANSI/BHMA A156.4 Standards. See individual products for sub sections.

LIMITED WARRANTY

Rixson heavy-duty floor closers models 27/28 and 30/40 are warranted for 10 years against defect. The model 20 closer carries a 2 year warranty. See Rixson Price Book for specific details of the limited warranty.

SPECIFICATION

Floor closers shall be heavy-duty model 27 (offset) or model 28 (center hung). All closers shall be handed. Choose appropriate functions and strengths to accommodate lead lining, extra high traffic, fire rating, independently hung or quick install models. These closers shall have separate and independent checking valves, to control latch speed, closing speed and adjustable hydraulic backcheck. All single acting closers shall have a built in dead stop feature. All closers shall have one piece spindle assembly. Extra heavy-duty closers shall have minimum of two thrust bearings and one needle bearing. Closers shall not have compression spring.



Application

- Single Acting, Handed
- Exterior or Interior Doors
- Weight to 450 lbs.*
- Door Width up to 4'0" (1219mm)

Product Description & Features

- 180 top pivot included
- M19 intermediate pivot(s) required (order separately)
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95°, 105°)
- Separate and independent valves for closing speed, latch speed and backcheck
- Vertical door adjustment
- Available with floor plate or threshold installation (floor plate shown)
- Cylolac, rust-proof cement case
- For arch top doors or applications when the 180 top pivot cannot be used, supply at least two each M190 load-bearing intermediate pivots, mounted together at the top of the straight vertical edge

Optional Features

- Delayed action option-prefix "DA" (non-hold open closers only)
- Cold weather fluid available – specify "CWF" (not available for closers with "DA")
- Sealed closer option – specify "SC"
- Available 1-1/2" offset, for doors with 3/4" cladding or frames with applied molding, maximum door weight 250 lbs.
- Extended spindles available in 1/2" increments up to 2" longer than standard
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Compliance

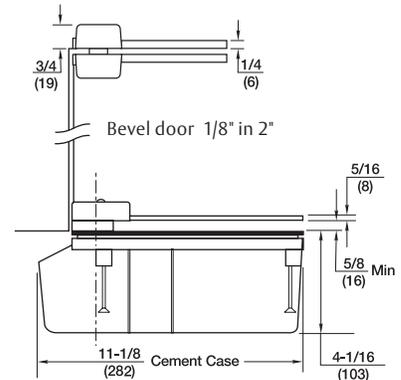
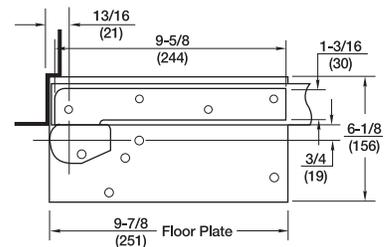
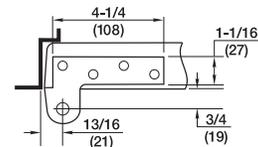
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix PH and suffix 8-1/2 lbs.)
- For fire rated openings (up to 3 hour assemblies) prefix "F". This package will be supplied with a F180 steel top pivot and a non-hold open closer. FM19 intermediate pivot required (order separately)
- UL listed closers cannot have PH option
- For 20-minute labeled doors suffix "-20" to the part number
- ANSI/C06041/C06051

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots



Technical Information

(Frame stop required)



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Application

- Single Acting, Handed
- Exterior or Interior Doors
- Weight to 450 lbs.*
- Door Width up to 4'0" (1219mm)

Product Description & Features

- 180 top pivot included
- M19 intermediate pivot(s) required (order separately)
- Available non-hold open (N) or automatic hold open (A)
- Maximum opening 180°, auxiliary floor or wall stop recommended
- Separate and independent valves for closing speed and latch speed
- Adjustable hydraulic backcheck
- Vertical door adjustment
- Available with floor plate or threshold installation (floor plate shown)
- Cyclocac, rustproof cement case
- For arch top doors or applications where a 180 top pivot cannot be used, supply at least two each M190 load-bearing intermediate pivots, mounted together at the top of the vertical edge
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Not available with delayed action (DA)
- Furnished with wood and machine screws

Optional Features

- Cold weather option – specify "CWF"
- Sealed closer option – specify "SC"
- Available 1-1/2" offset, for doors with 3/4" cladding or frames with applied molding, maximum door weight 250 lbs.
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

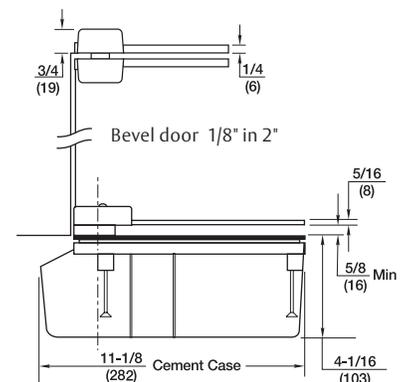
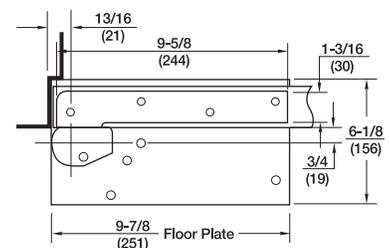
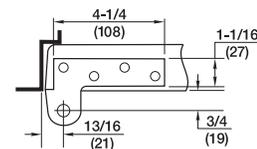
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix "PH" and suffix "8-1/2 lbs.")
- For fire rated openings (up to 3 hour assemblies) prefix "F". This package will be supplied with a F180 steel top pivot and a non-hold open closer. FM19 intermediate pivot required (order separately)
- UL labeled closers cannot have PH option
- For 20-minute labeled doors suffix "-20" to the part number

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots



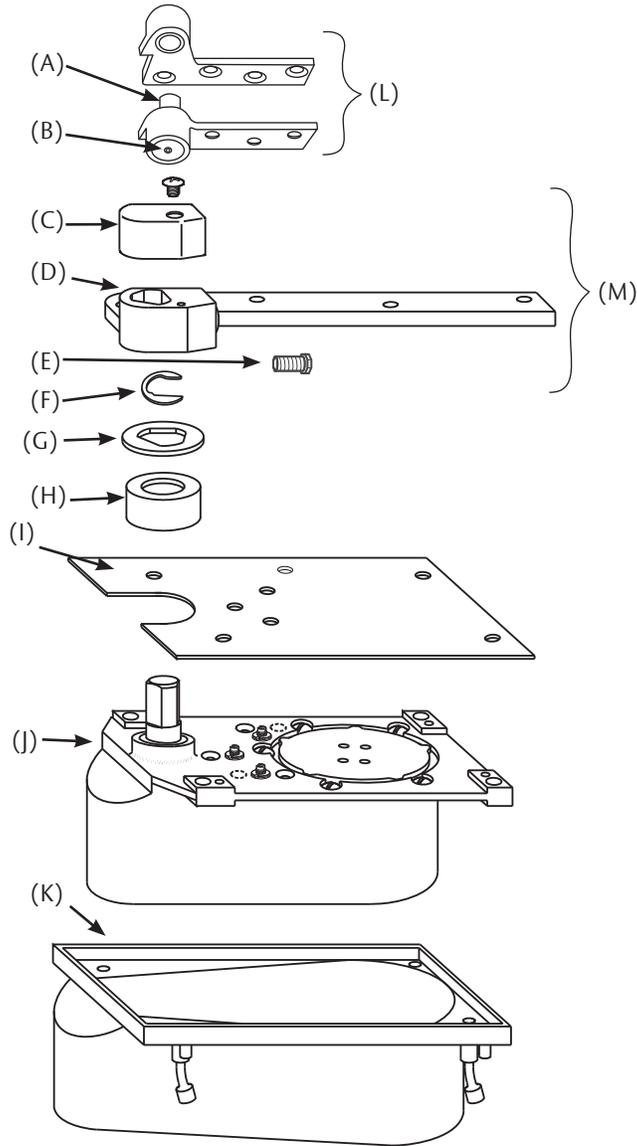
Technical Information

(Frame stop required)



RIGHT HAND SHOWN
3/4" OFFSET

- (A) Pivot Stud
181770-ASY
- (B) Hex Cap
181778-*
- (C) Arm Cap & Screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)
- (D) 3/4" Offset Arm x Locking Screw
275177 (RH)
275176 (LH)
- (E) Arm Locking Screw Only
88905-PKG (5)
- (F) Arm Shims
275065-PKG (5)
- (G) Arm Bearing Washer
275062-PKG (5)
- (H) Spindle Shoulder Collar
259000-*
- (I) Floor Plate x Screws
274050R* (RH) NHO
274050L* (LH) NHO
274750R* (RH) SHO
274750L* (LH) SHO
- (J) Closer Body
LAP Specify Complete
Model
- (K) Cement Case x Screws
253000-PKG
- (L) 3/4" Offset Top Pivot
Assembly
180 (standard)
F180 (Fire Rated)
180-20 (20 minutes)
- (M) Bottom Arm Package
252050R* (RH)
252050L* (LH)
(Includes C,D, H, and
attaching screws)



SCREW KITS

- 180 Top Pivot Screw Kit
- 107014-* Machine (2) Req
- 107114-* Wood (2) Req

- Arm Screw Kit
- 107044 Machine
- 107144 Wood

- Floor Plate Screw Kit
- 107004 -*

- Cement Case Screw Kit
- 107046

FOR 27 x 1-1/2" OFFSET

- 1-1/2" Offset Top Pivot
- 180 x 1-1/2" (standard)
- F180 x 1-1/2" (Fire Rated)
- 180 x 20 x 1-1/2" (20 minute)
- 1-1/2" Offset Arm x Locking Screw
275167-*
- 1-1/2" Bottom Arm Package
252060R*
252060L*

*specify finish

Application

- Single Acting, Handed
- Exterior or Interior Doors
- Deep Reveal Applications
- Weight to 250 lbs.*
- Door Width up to 4'0" (1219mm)

Product Description & Features

- Recommended for applications where vertical movement of the door at installation is not possible, such as a door inset in a deep reveal or with no ceiling clearance
- Closer has a tapered spindle and uses a unique bottom arm to allow door installation
- 180 top pivot included
- 119 intermediate pivot(s) recommended for non-fire rated opening (order separately)
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cynolac, rustproof cement case
- For arch top doors or applications where a 180 top pivot cannot be used, supply at least two each M190 load-bearing intermediate pivots, mounted together at the top of the vertical edge. Do not use 119 intermediate pivot.
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot

Optional Features

- Delayed action option – prefix "DA" (non-hold open closers only)
- Cold weather fluid option – specify "CWF" (not available for closers with "DA")
- Sealed closer option – specify "SC"
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

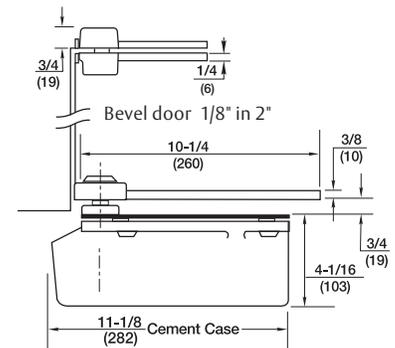
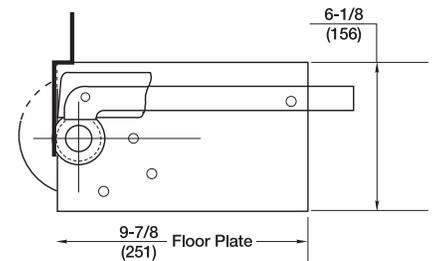
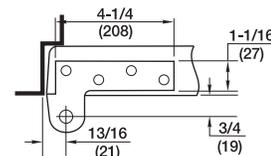
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix PH and suffix 8-1/2 lbs.)
- For fire rated openings (up to 3 hour assemblies) prefix "F". This package will be supplied with a F180 steel top pivot and a non-hold open closer. FM19 intermediate pivot required (order separately)
- UL labeled closers cannot have PH option
- For 20-minute labeled doors suffix "-20" to the part number
- ANSI/C06041/C06051

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots



Technical Information

(Frame stop required)



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in door opening solutions

Application

- Single Acting, Handed
- Exterior or Interior Doors
- Deep Reveal/Alcove Applications
- Weight to 250 lbs.*
- Door Width up to 4'0" (1219mm)

Product Description & Features

- Recommended for applications where vertical movement of the door at installation is not possible, such as a door inset in an alcove with no ceiling or side jamb clearance
- Closer has a tapered spindle and uses a unique bottom arm
- 180 x 102 top pivot included
- 119 intermediate pivot(s) recommended (order separately)
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°) Note: Alcove doors can rarely go beyond 90°
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cyclac rustproof cement case
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Not available for fire rated openings
- Furnished with wood and machine screws

Optional Features

- Delayed action option – prefix "DA" (non-hold open closers only)
- Cold weather fluid option – specify "CWF" (not available for closers with "DA")
- Sealed closer option – specify "SC"
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

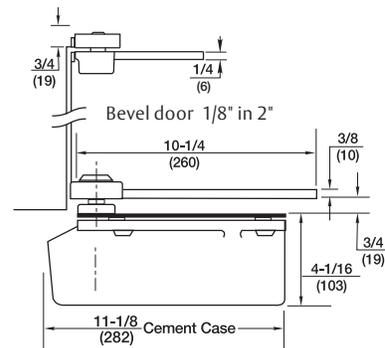
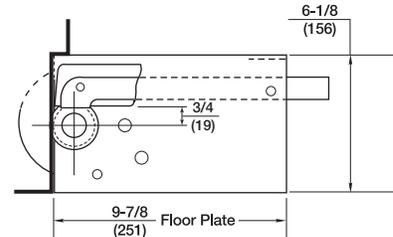
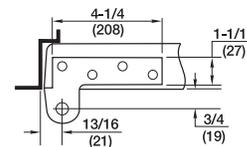
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix "PH" and suffix "8-1/2 lbs.")
- ANSI/C06041

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots



Technical Information

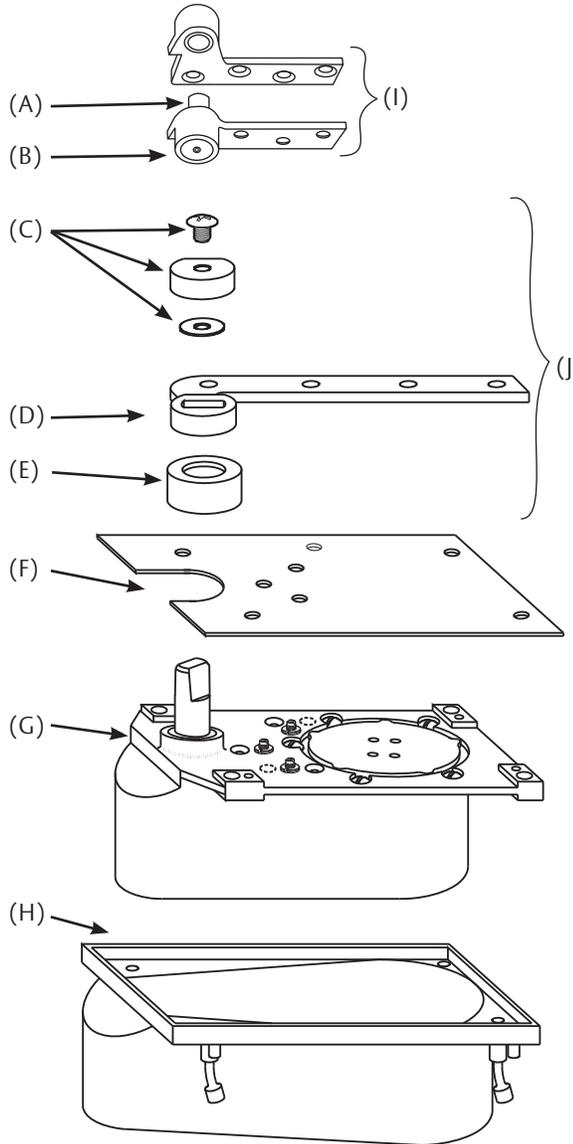
(Frame stop required)



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RIGHT HAND SHOWN
3/4" OFFSET

- (A) Pivot Stud
181770-ASY
- (B) Hex Cap
181778-*
- (C) Arm Cap x Screw
12029-AS
- (D) 3/4" Offset Arm
12027 (RH)
12028 (LH)
- (E) Spindle Shoulder Collar
259000-*
- (F) Floor Plate with Screws
274050R* (RH) NHO
274050L* (LH) NHO
274750R* (RH) SHO
274750L* (LH) SHO
- (G) Closer Body (Specify
Complete Model
No. x LAP)
- (H) Cement Case with
Screws
253000 - PKG
- (I) 3/4" Offset Top Pivot
180 (standard)
F180 (Fire Rated)
180 x 20 (20 Minute)
- (J) Bottom Arm Package
652050R* (RH)
652050L* (LH)
(Includes C, D and
attaching screws)



SCREW KITS

180 x 102 Screw Kit
107014-* 1 each Machine
107114-* 1 each Wood
107112-* 1 each Wood
107012-* 1 each Machine

180 Top Pivot Screw Kit
107014-* Machine (2) Req
107114-* Wood (2) Req

Arm Screw Kit
107044 Machine
107144 Wood

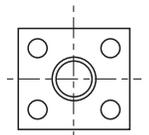
Floor Plate Screw Kit
107004-*

Cement Case Screw Kit
107046

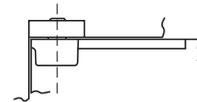
MODEL 427

(D) 3/4" Offset Arm
12027 (RH)
12028 (LH)

Top Pivot
180 x 102



180 x 102



*specify finish

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Application

- Single Acting, Handed
- Interior or Exterior Doors
- Door Width up to 4'0" (1219mm)
- For Doors over 250 lbs. Consult Factory
- 1-3/4 doors only

Product Description & Features

- Used as a concealed floor closer for independently hung doors – butt hinges, pocket pivots, or continuous hinges
- Closer does not support weight of door
- Note: Hanging means must be specified when ordering. Check the product template. If your hanging means are not listed, contact factory for a special layout and pricing
- Includes closer, mortised rail and arm with slider
- 90° maximum door swing
- Auxiliary stop recommended
- Separate and independent valves for closing speed, latch speed and backcheck
- Floor plate standard. For threshold applications a 1/2" extended spindle is required
- Cycolac rustproof cement case
- Not available in "PH", "DA", or Hold Open
- Furnished with wood and machine screws

Optional Features

- Cold weather fluid "CWF"
- Sealed closer option – specify "SC"
- Extended spindle available in 1/2" increments up to 2" longer than standard

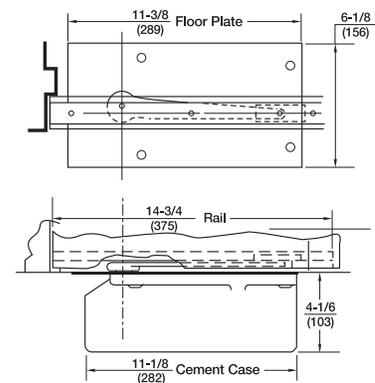
Compliance

- This closer carries a UL Listing for 3 hour fire door assemblies. Fire rated hanging means required
- ANSI/C06031



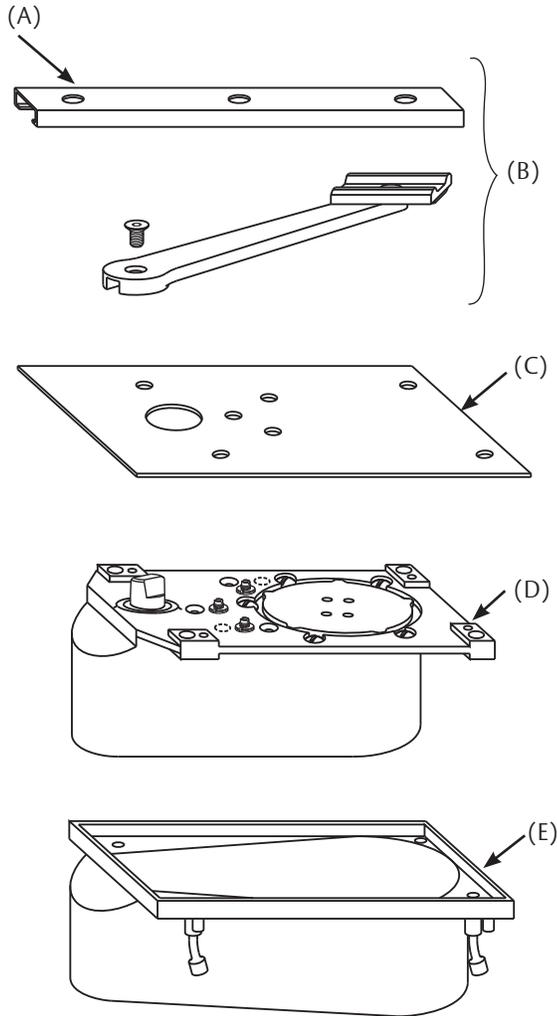
Technical Information

(Frame stop required)



RIGHT HAND SHOWN
INDEPENDENTLY HUNG

- (A) Door Rail
327006
- (B) Bottom Arm Package
3252010-*
- (C) Floor Plate with Screws
3274010R* (RH)
3274010L* (LH)
- (D) Closer Body
(Specify Complete
Model No. x LAP)
- (E) Cement Case with Screws
253000-PKG



SCREW KITS

Slide Track Screw Kit
107033

Floor Plate Screw Kit
107004-*

Cement Case Screw Kit
107046

*specify finish

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Application

- Single Acting, Handed
- Exterior or Interior Doors
- Lead-Lined, Heavy, High Traffic Doors
- Weight to 1500 lbs.*
- Door Width up to 4'0" (1219mm)

Product Description & Features

- L180 top pivot included
- ML19 intermediate pivot(s) required (order separately)
- Heavy-duty bottom arm and top pivot with screw holes spaced to straddle lead lining, or for extra heavy or very high traffic doors.
- Available for the following lead-lined door thicknesses: 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (63mm) or 3" (76mm)
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- Additional thrust bearing for greater load capacity
- Separate and independent valves for closing speed, latch speed and backcheck
- Vertical door adjustment
- Available with floor plate or threshold installation (floor plate shown)
- Cast iron cement case
- For arch top doors or applications where an L180 top pivot cannot be used, supply at least two each ML19-load bearing intermediate pivots, mounted together at the top of the vertical edge
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Optional Features

- Delayed action option – prefix "DA" (non-hold open closers only)
- Cold weather fluid option – specify "CWF" (not available for closers with "DA")
- Sealed closer option – specify "SC"
- For extended offsets, consult factory
- Extended spindles available in 1/2" increments up to 2" longer than standard
- For extended offsets, consult factory

Compliance

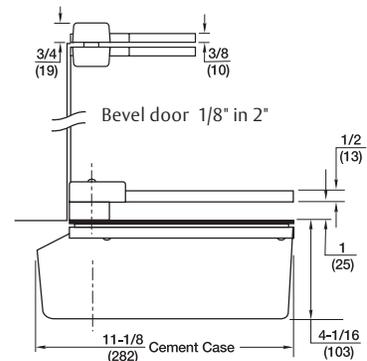
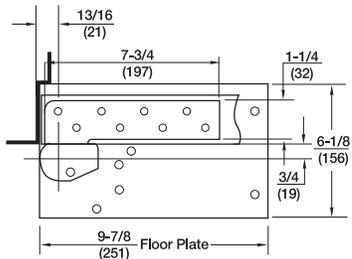
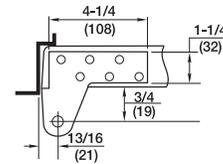
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix PH and suffix 8-1/2 lbs.)
- For fire rated openings (up to 3 hour assemblies) prefix "F". This package will be supplied with a FL180 steel top pivot and non-hold open closer. FML19 intermediate required (order separately).
Note: UL listing for 1-3/4" thick doors only.
- UL labeled closers cannot have PH option
- For 20-minute labeled doors suffix "-20" to the part number
- ANSI/C06071

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots



Technical Information

(Frame stop required)



* 1-3/4" door thickness shown



Model L27-180

HEAVY-DUTY FLOOR CLOSERS
3/4" OFFSET HUNG

Application

- Single Acting, Handed
- Exterior or Interior Doors
- Lead-Lined, Heavy, High Traffic Doors
- Weight to 1500 lbs.*
- Door Width up to 4'0" (1219mm)

Product Description & Features

- L180 top pivot included
- ML19 intermediate pivot(s) required (order separately)
- Heavy-duty bottom arm and top pivot with screw holes spaced to straddle lead lining, or for extra heavy or very high traffic doors.
- Available for the following lead-lined door thicknesses: 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (63mm) or 3" (76mm)
- Available non-hold open (N) or automatic hold open (A) at 180°
- Built-in positive dead stop prevents door from swinging beyond 180° only
- Additional thrust bearing for greater load capacity
- Separate and independent valves for closing speed, latch speed and backcheck
- Vertical door adjustment
- Available with floor plate or threshold installation (floor plate shown)
- Cast iron cement case
- For arch top doors or applications where a L180 top pivot cannot be used, supply at least two each ML19 load bearing intermediate pivots, mounted together at the top of the vertical edge
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Optional Features

- Delayed action option – prefix "DA" (non-hold open closers only)
- Cold weather fluid option – specify "CWF" (not available for closers with "DA")
- Sealed closer option – specify "SC"
- For extended offsets, consult factory
- Extended spindles available in 1/2" increments up to 2" longer than standard
- For extended offsets, consult factory

Compliance

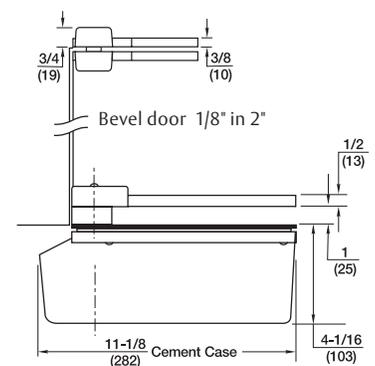
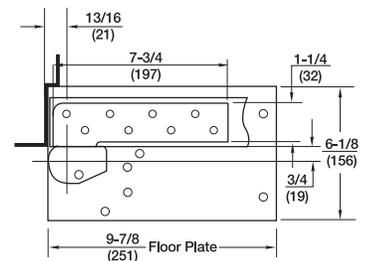
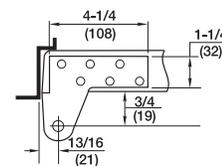
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix PH and suffix 8-1/2 lbs.)
- For fire rated openings (up to 3 hour assemblies) prefix "F". This package will be supplied with a FL180 steel top pivot and non-hold open closer. Furnish FML19 intermediate pivot (order separately). Note: UL listing for 1-3/4" thick doors only.
- UL labeled closers cannot have PH option
- For 20-minute labeled doors suffix "-20" to the part number
- ANSI/C06071

*Door size & weight guidelines are determined using the appropriate number of intermediate pivots



Technical Information

(Frame stop required)



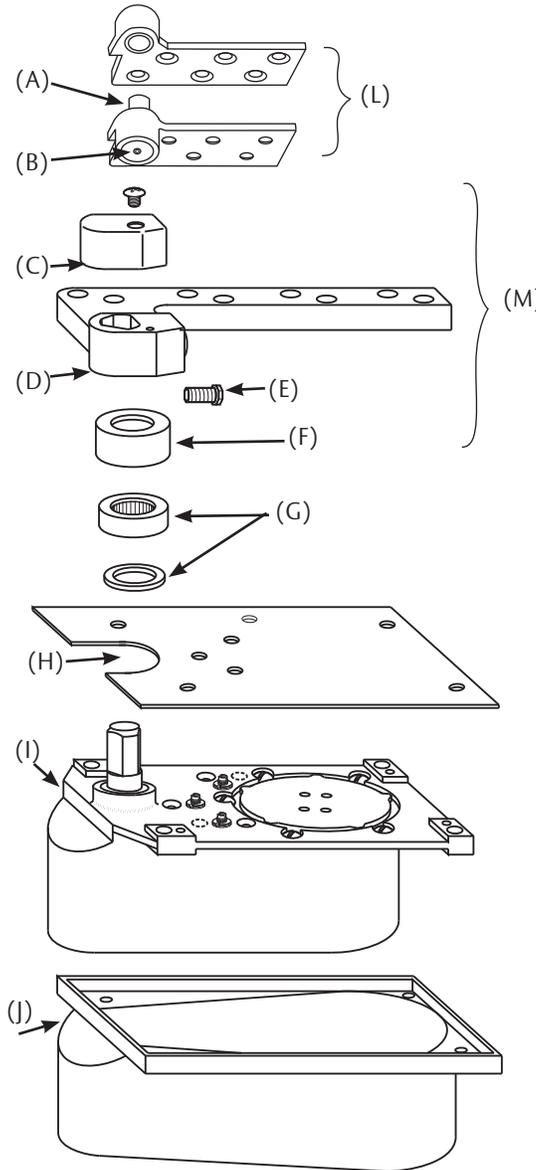
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RIGHT HAND SHOWN

3/4" OFFSET

- (A) Pivot Stud
181770-ASY
- (B) Hex Cap
181778-*
- (C) Arm Cap & Screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)
- (D) Arm x Locking Screw
1-3/4" Door
18550-Asy (RH)
18650-Asy (LH)
2" Door
18551-Asy (RH)
18651-Asy (LH)
2-1/4" Door
18552-Asy (RH)
18652-Asy (LH)
2-1/2" Door
18553-Asy (RH)
18653-Asy (LH)
3" Door
18554-Asy (RH)
18654-Asy (LH)
- (E) Arm Locking Screw Only
88905-PKG (5)
- (F) Spindle Shoulder Collar
259500-*
- (G) Heavy-Duty Thrust Bearing
41204-PKG
(Includes 41207N spacer)
- (H) Floor Plate with Screws
274050R* (RH) NHO
274050L* (LH) NHO
274750R* (RH) SHO
274750L* (LH) SHO
- (I) Closer Body
(Specify Complete
Model No. x LAP)
(Includes G)
- (J) Cement Case with
Screws 253001-PKG



- (L) 3/4" Offset Top Pivot
L180 (standard)
FL180 (Fire Rated)
L180 x 20 (20 minute)
- (M) Bottom Arm Package
1-3/4" Door
252051R*(RH)
252051L*(LH)
2" Door
252052R*(RH)
252052L*(LH)
2-1/4" Door
252053R*(RH)
252053L*(LH)
2-1/2" Door
252054R*(RH)
252054L*(LH)
3" Door
252055R*(RH)
252055L*(LH)
(Includes: C, D, F and
attaching screws)

SCREW KITS

- L180 Screw Kit
107016-* Machine (2) Req
107116-* Wood (2) Req
- Arm Screw Kit
107048 Machine (2) Req
107144 Wood (2) Req
- Floor Plate Screw Kit
107004-*
- Cement Case Screw Kit
107046

*specify finish

Application

- Single Acting, Handed
- Exterior and Interior Doors
- Weight to 350 lbs.*
- Door Width up to 4'0" (1219mm)
- 1-3/4" Thick Only

Product Description & Features

- 180 top pivot included
- One M19 intermediate pivot included. *Closer cannot be ordered without the intermediate pivot*
- 3/4" offset only
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95°)
- Maximum door swing 95°
- Separate and independent valves for closing speed, latch speed and backcheck
- Vertical door adjustment
- Surface-attached bottom arm allows closer removal without demounting door
- Q closers have a floor plate (shown).
- For threshold application prefix "QT"
- Mortise arm with thru-bolt attachment
- Cyclac rustproof cement case
- Increased depth of cement case for easy closer removal
- For arch top doors, consult factory
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot (included). Each additional 30" (762mm) or doors over 195 lbs. warrants another intermediate pivot
- Furnished with wood and machine screws

Optional Features

- Delayed action option – prefix "DA" (non-hold open closers only)
- Cold weather fluid option – specify "CWF" (not available for closers with "DA")
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

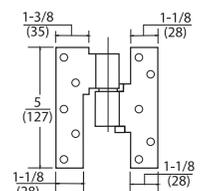
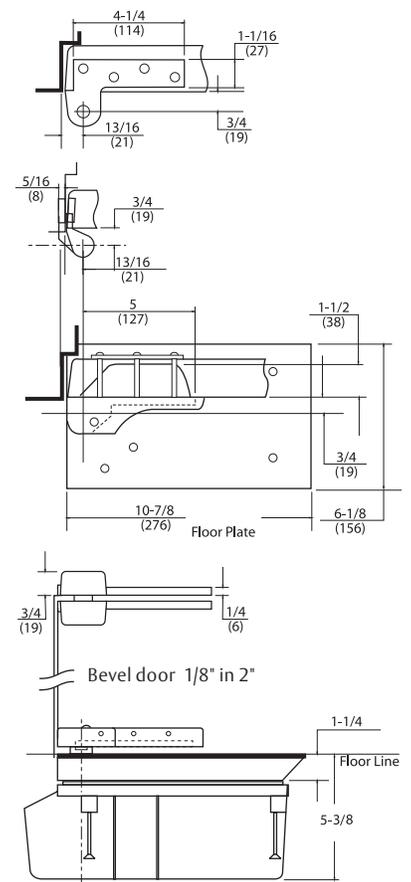
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix "PH" and suffix "8-1/2 lbs.")
- For fire rated openings (up to 3 hour assemblies) prefix F. This package will be supplied with a F180 steel top pivot, one FM19 intermediate pivot and a non-hold open closer
- UL labeled closers cannot have PH option
- For 20-minute labeled doors suffix "-20" to the part number
- ANSI/C06041/C06051

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots



Technical Information

(Frame stop required)

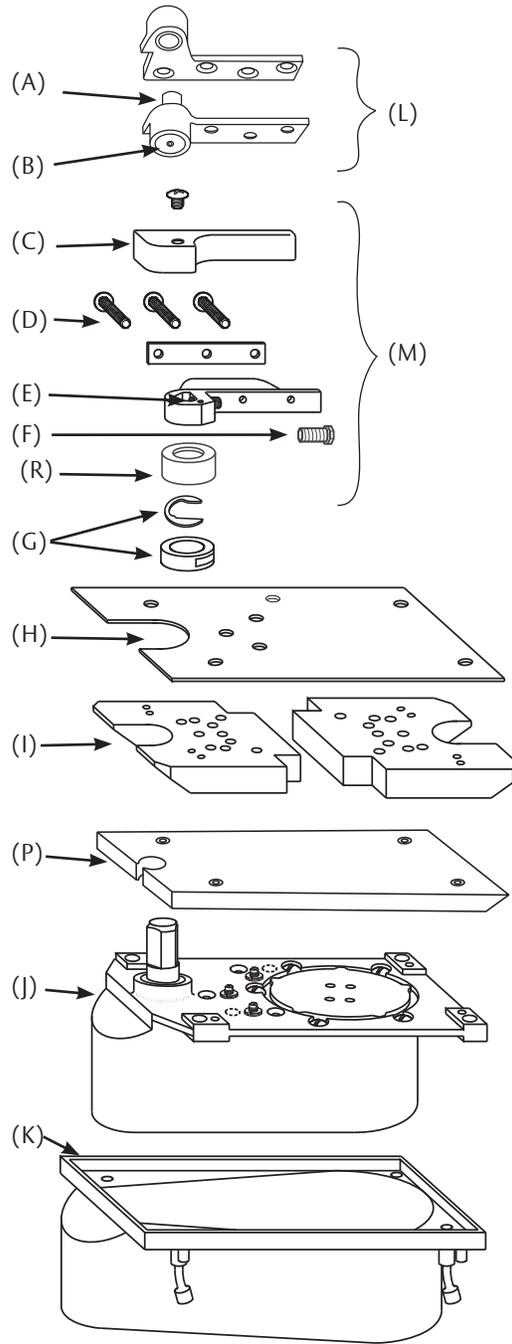


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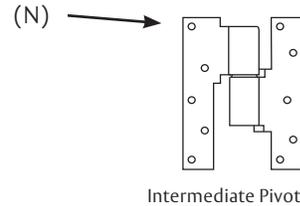
ASSA ABLOY, the global leader
in door opening solutions

RIGHT HAND SHOWN
3/4" OFFSET ONLY

- (A) Pivot Stud
181770-ASY
- (B) Hex Cap
181778-*
- (C) Arm Cap & Screw
73035R*AS (RH)
73035L*AS (LH)
- (D) Arm Mounting Screws
and Plate
73014-*
- (E) Removable Arm
73001R-ASY (RH)
73001L-ASY (LH)
- (F) Arm Locking Screw Only
88905-PKG (5)
- (G) Arm Washer/Shim
Package - 275179
(Includes 275065 and
275178 Torque Washer)
- (H) Q Floor Plate with Screws
294050R* (RH) (NHO)
294050L* (LH) (NHO)
294750R* (RH) (SHO)
294750L* (LH) (SHO)
- (I) Q27 Styrofoam Filler
73009
- (J) Closer Body
(Specify Complete
Model No. x LAP)
- (K) Cement Case with
Screws 253000-PKG
- (P) QT Styrofoam Filler
73017
- (R) Spindle Shoulder Collar
259000-*



- (L) 3/4" Offset Top Pivot
180 (standard)
F180 (Fire Rated)
180 x 20 (20 minute)
- (M) Bottom Arm Package
222050R* (RH)
222050L* (LH)
(Includes C, D, E, R and
attaching screws)
- (N) 3/4" Offset Intermediate Pivot
M19 (standard)
FM19 (Fire Rated)
M19-20 (20 minute)



SCREW KITS

- 180 Screw Kit
107014-* Machine (2) Req
107114-* Wood (2) Req
- Q Floor Plate Screw Kit
107010-*
- Cement Case Screw Kit
107046
- M19 Intermediate Pivot Screw Kit
107015-* Machine (2) Req
107115-* Wood (2) Req

*specify finish

Model HM27

HEAVY-DUTY FLOOR CLOSERS
3/4" OFFSET HUNG

Application

- Single Acting, Handed
- Exterior or Interior Doors
- 1-3/4" Hollow Metal Doors/Frames
- Weight to 250 lbs.
- Door Width up to 4'0" (1219mm)

Product Description & Features

- Designed for stock hollow metal doors and frames with standard weight 4-1/2" hinge preparation
- Includes three special steel 4-1/2" ball bearing standard weight hinges with 3/4" offset. Doors over 90° in height warrant an additional hinge
- Surface mounted bottom arm with thru-bolts
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (85°, 90°, 95°)
- Maximum door swing 95°
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cyclocac rustproof cement case
- Furnished with 1/2 wood and full machine screws

Optional Features

- Delayed action option – prefix "DA" (non-hold open closers only)
- Cold weather fluid option – specify "CWF" (not available for closers with "DA")
- Sealed closer option – specify "SC"
- Extended spindles available in 1/2" increments up to 2" longer than standard

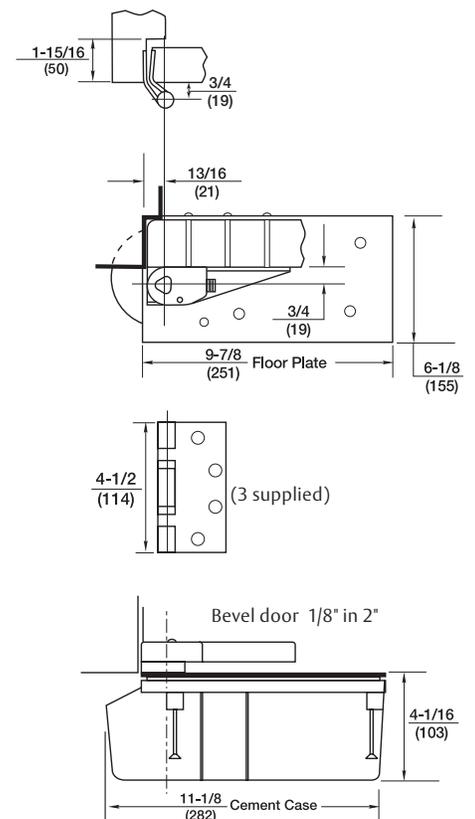
Compliance

- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix "PH" and suffix "8-1/2 lbs.")
- For fire rated opening (up to 3 hour assemblies) prefix "F". This package will be supplied with 3 steel hinges and a non-hold open closer
- UL labeled closers cannot have PH option
- ANSI/C06041/C06051



Technical Information

(Frame stop required)

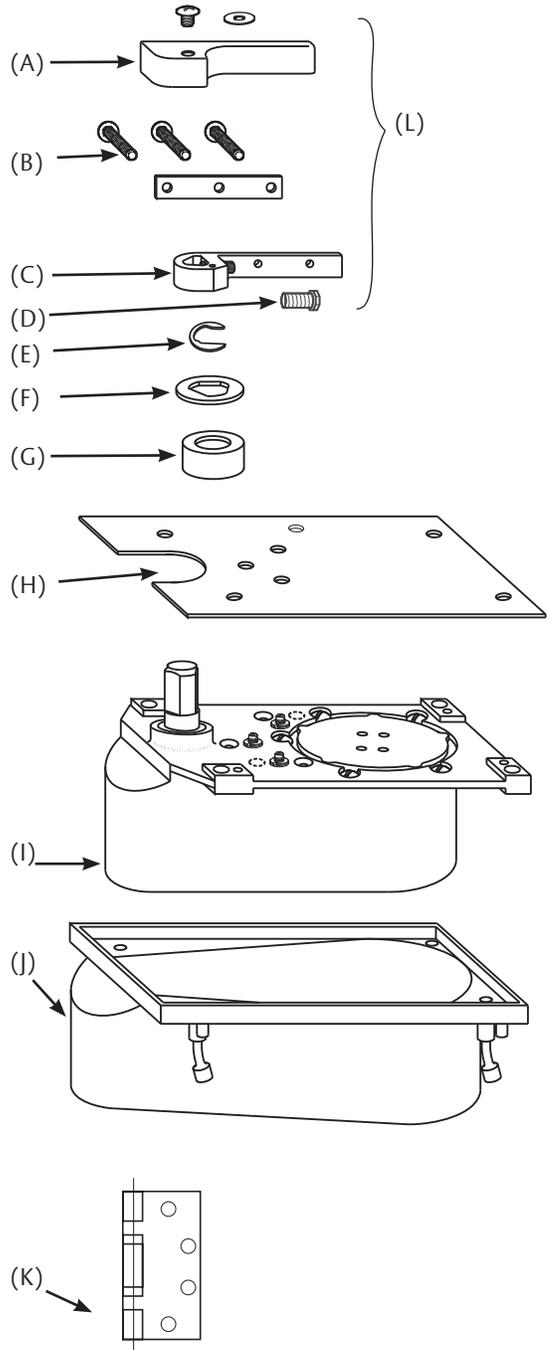


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RIGHT HAND SHOWN
3/4" OFFSET

- (A) Arm Cap & Screw
73025R*AS (RH)
73025L*AS (LH)
- (B) Arm Mounting Screws
and Plate
73014-*
- (C) Arm x Set Screw
73041R*AS (RH)
73041L*AS (LH)
- (D) Arm Locking Screw Only
88905-PKG (5)
- (E) Arm Shims (5)
275065-PKG
- (F) Arm Bearing Washer
275062-PKG-5
- (G) Spindle Shoulder Collar
259000-*
- (L) Bottom Arm Package
222050R*HM (RH)
222050L*HM (LH)
(Includes A, B, C, G and
attaching screws)
- (H) Floor Plate with Screws
274050R* (RH) (NHO)
274050L* (LH) (NHO)
274750R* (RH) (SHO)
274750L* (LH) (SHO)
- (I) Closer Body
(Specify Complete
Model No. x LAP)
- (J) Cement Case with Screws
253000-PKG
- (K) Special Offset Hinges (3)
254545*PK



SCREW KITS

Floor Plate Screw Kit
107004-*

Cement Case Screw Kit
107046

Hinge Screw Kit
107519-*

*specify finish

Application

- Single Acting, Handed
- Interior Doors
- Weight to 200 lbs.*
- Door Width up to 3'0"

Product Description & Features

- 180 top pivot included
- M19 intermediate pivot(s) recommended (order separately)
- Allows 180° door swing (trim permitting)
- Available non-hold open only
- Single valve adjustable closing speed 70° to 0°
- Built-in hydraulic backcheck cushions opening from 140° to 180°
- Vertical door adjustment
- Available with floor plate or threshold installation (floor plate shown)
- Cast iron cement case
- Delayed action not available
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Optional Features

- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

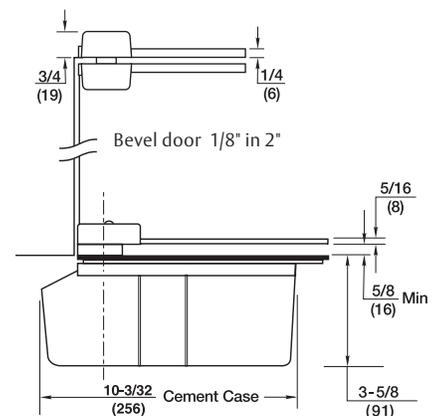
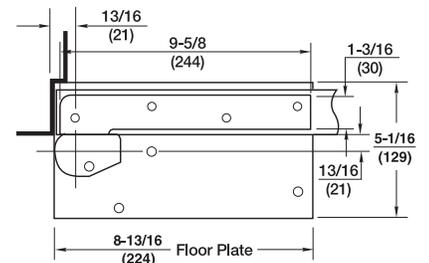
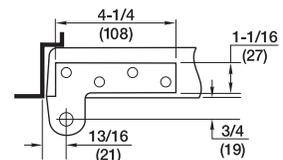
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix "PH" and suffix "8-1/2 lbs.")
- For fire rated openings (up to 3 hour assemblies) prefix F. This package will be supplied with a F180 steel top pivot and non hold open closer. FM19 intermediate pivot required (order separately)
- UL labeled closers cannot have PH option
- For 20-minute labeled doors suffix -20 to the part number
- ANSI/C06042/C06052

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots



Technical Information

(Frame stop required)

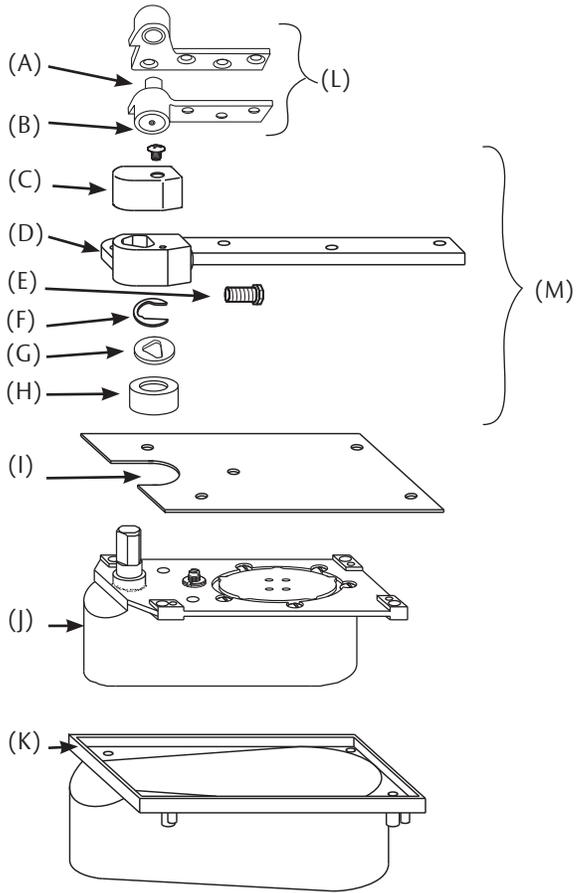


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RIGHT HAND SHOWN
3/4" OFFSET

- (A) Pivot Stud
181770-ASY
- (B) Hex Cap
181778-*
- (C) Arm Cap & Screw
012142R*AS
(RH, BRS)
012142L*AS
(LH, BRS)
012144R*AS
(RH, SS)
012144L*AS
(LH, SS)
- (D) 3/4" Offset Arm x
Locking Screw
275177 (RH)
275176 (LH)
- (E) Arm Locking Screw Only
88905-PKG (5)
- (F) Arm Shims
275065-PKG (5)
- (G) Arm Bearing Washer
275062-PKG (5)
- (H) Spindle Shoulder Collar
259000-*
- (L) 3/4" Offset Top Pivot
180 (standard)
FL180 (Fire Rated)
180 - 20 (20 Minute)
- (M) Bottom Arm Package
252050R* (RH)
252050L* (LH)
(Includes C, D, H and
attaching screws)
- (I) Floor Plate with Screws
204050-*
- (J) Closer Body (Specify
Complete Model No. x LAP)
- (K) Cement Case with Screws
203000



SCREW KITS

- 180 Screw Kit
- 107014-* Machine (2) Req
- 107114-* Wood (2) Req
- Arm Screw Kit
- 107044-* Machine (2) Req
- 107144-* Wood (2) Req
- Floor Plate Screw Kit
- 107004-*
- Cement Case Screw Kit
- 107046

*specify finish

Model 119

Application

- Full Mortise
- Handed

Product Description & Features

- Not load-bearing
- Maintains door alignment
- Available 3/4" offset only
- Non-ferrous base material
- Recommended for use with Model 127 and 427 Floor Closers
- Bevel door 1/8" in 2"
- Furnished with wood and machine screws

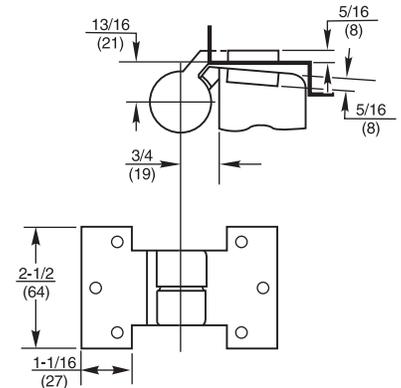
Compliance

- ANSI/C07382

HEAVY-DUTY FLOOR CLOSERS INTERMEDIATE PIVOTS



Technical Information



Model M19/M190

Application

- Full Mortise
- Handed

Product Description & Features

- M19, bushing, not load-bearing
- M190, bearing, load-bearing
- Maintains door alignment
- Aids in installing floor closers and bottom pivots
- Non-ferrous base material 3/4" offset standard
- Bevel door 1/8" in 2"
- For arch top doors or applications where a 180 top pivot cannot be used, supply at least two each M190 load bearing intermediate pivots, mounted together at the top of the vertical edge with a bottom pivot or floor closer
- Furnished with wood and machine screws

Optional Features

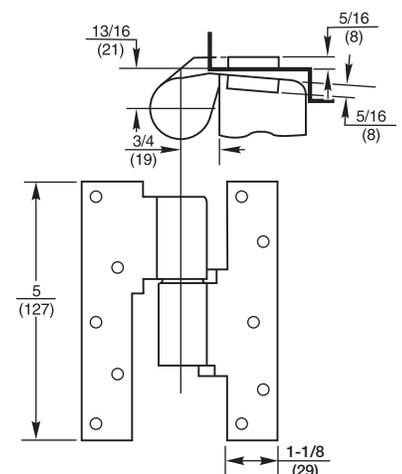
- Available 1-1/2 (38mm) offset for 3/4" cladding

Compliance

- Available for fire door assemblies (ferrous material) specify FM19 or FM190
- On labeled for fire doors NFPA80 requires an intermediate pivot for every additional 30" (762mm) of door height over 60" (1542mm)
- For 20-minute label suffix "-20" to the part number
- ANSI/C07321/C07371



Technical Information



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Application

- Heavy-Duty Full Mortise
- Handed

Product Description & Features

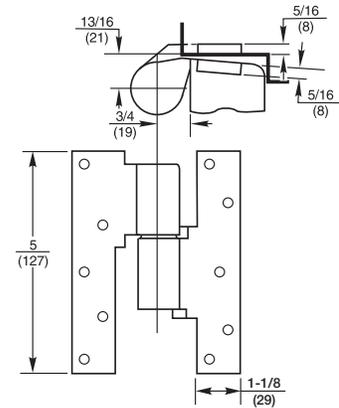
- Load-bearing
- Maintains door alignment
- Available to accommodate door thicknesses 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) – specify thickness when ordering
- Screw holes spaced to straddle lead lining in center of door. Use on extra heavy or high traffic doors.
- Aids in installing floor closers and bottom pivot
- Non-ferrous base material
- 3/4" offset, for extended offsets consult factory
- Bevel door 1/8" in 2"
- For arch top doors or applications where a 180 top pivot cannot be used, supply at least two each ML19 load bearing intermediate pivots, mounted together at the top of the vertical edge with a bottom pivot or floor closer
- Furnished with wood and machine screws

Compliance

- Available for fire door assemblies – 1-3/4" (44mm) door only – specify FML19
- On labeled fire door assemblies, NFPA80 requires an intermediate pivot for every additional 30" (762mm) of door height over 60" (1524mm)
- For 20-minute label suffix "-20" to part number
- ANSI/C07311



Technical Information



Application

- Full Mortise
- Handed

Product Description & Features

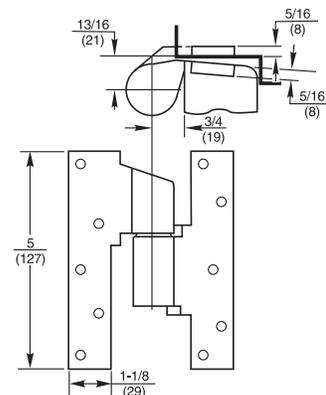
- Optional intermediate pivot for institutional use or installations where flat surfaces are objectionable
- Maintains door alignment
- Aids in installing bottom pivots
- Not load bearing
- 3/4" (19mm) offset
- Bevel door 1/8" in 2"
- Furnished with wood and machine Torx® screws

Compliance

- May be used with fire door assemblies
- Ferrous base material
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- ANSI/C07361



Technical Information



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Model 28 X 554 ARM

Application

- Single Acting, Handed
- Exterior or Interior Doors
- Weight to 350 lbs.
- Concealed Arm
- Sizes up to 4'0" x 8'6"* (1219 x 2591mm)

Product Description & Features

- 340 top pivot included
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- Concealed arm is designed to eliminate visible adjusting screws on face of door
- Arm bolt locks arm to closer spindle – adjustments made through heel of door
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cyclocac, rustproof cement case
- Not allowed for fire rated doors
- Frame stop required on the header at the lock side. If not supplied by frame manufacturer, recommend use of 60131 (see Door Control Accessories catalog).
- Furnished with wood and machine screws

Optional Features

- Delayed action option – prefix "DA" (non-hold open closers only)
- Cold weather fluid option – specify "CWF" (not available for closers with "DA")
- Sealed closer option – specify "SC"
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

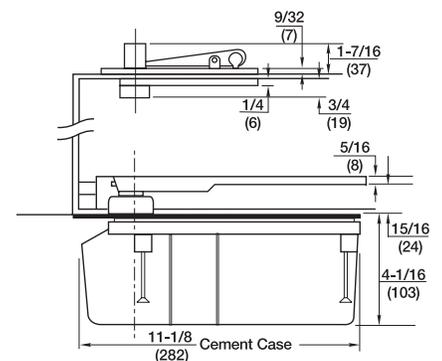
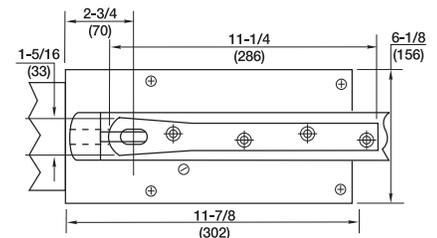
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix "PH" and suffix 8-1/2 lbs.)
- ANSI/C06021

* For doors taller than 8'6" use top pivot # 345 in lieu of 340



Technical Information

(Frame stop required at lock edge)



Pivot edge of door must be radiused.

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Application

- Single Acting, Handed
- Exterior or Interior Doors
- Weight to 350 lbs.
- Centering Arm
- Sizes up to 4'0" x 8'6"* (1219 x 2591mm)

Product Description & Features

- 340 top pivot included
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- Centering arm with adjusting screws in face of door
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cylolac, rustproof cement case
- Not allowed for fire rated doors
- Frame stop required on the header at the lock side. If not supplied by frame manufacturer, recommend use of 60131 (see Door Control Accessories catalog).
- Furnished with wood and machine screws

Optional Features

- Delayed action option – prefix "DA" (non-hold open closers only)
- Cold weather fluid option – specify "CWF" (not available for closers with "DA")
- Sealed closer option – specify "SC"
- Arm reinforcement bracket for wood doors - prefix W
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

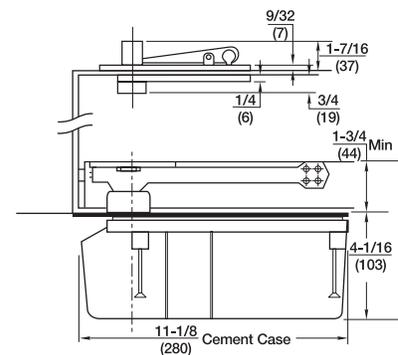
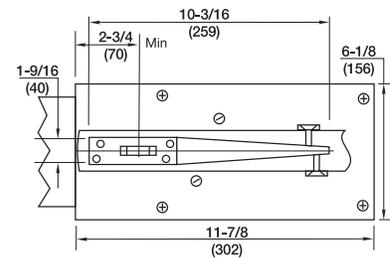
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix "PH" and suffix 8-1/2 lbs.)
- ANSI/C06021

* For doors taller than 8'6" use top pivot # 345 in lieu of 340



Technical Information

(Frame stop required at lock edge)

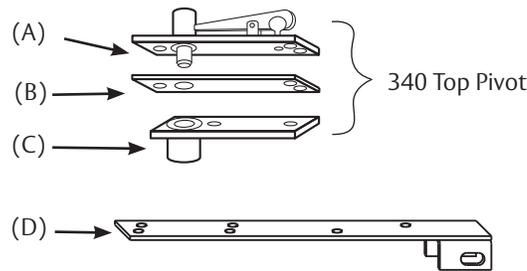


Pivot edge of door must be radiused.

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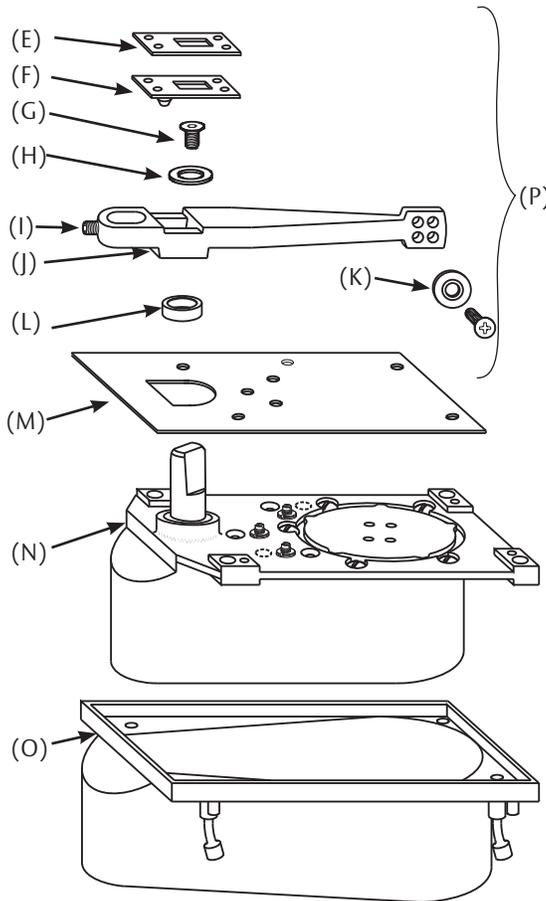
Model 28

- (A) Jamb Portion
3065
- (B) Finish Plate
012202-*PK(BRS)
012204-*PK(SS)
- (C) Door Portion
30243
- (E) Arm Plate Shims (.062)
46045-PKG (5)
Arm Plate Shims (.187)
46145-PKG (5)
- (F) Arm Plate & Stud Assy
46445
- (G) Arm Spindle Screw
01244010-PKG (5)
- (H) Arm Spindle Washer
01030-PKG (5)
- (I) Arm Set Screw Only
26087-PKG (5)
- (J) Arm & Arm Set Screw
282026M
- (K) Arm Alignment Screw &
Washer (2) of each
107032-*
- (L) Arm Spindle Collar
259000-*
- (M) Floor Plate with Screws
284020R* (RH) NHO
284020L* (LH) NHO
284720R* (RH) SHO
284720L* (LH) SHO
- (N) Closer Body
(Specify Complete
Model No. x LAP)
- (O) Cement Case with Screws
253000-PKG
- (P) Bottom Arm Package (E-K)
282026-*



Wood Door Arm Package
282126 (includes D, E, F, J)

(D) W28 Wood Door Plate & Shim Pkg
107066
(Includes 46145 & 46445)



554 Concealed Arm Package
282554
(Includes 107064)

SCREW KITS

- 340 Screw Kit
107329 Machine & Wood
- Arm Screw Kit
107048-* Machine (2) Req
107144-* Wood (2) Req
- 554 Arm Screw Kit
107064
- Floor Plate Screw Kit
107004-*
- Cement Case Screw Kit
107046

*specify finish



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Application

- Single Acting, Handed
- Exterior or Interior Doors
- Extra Heavy High Traffic Doors
- Weight to 1000 lbs.
- Sizes up to 4'0" x 8'6"* (1219 x 2591mm)

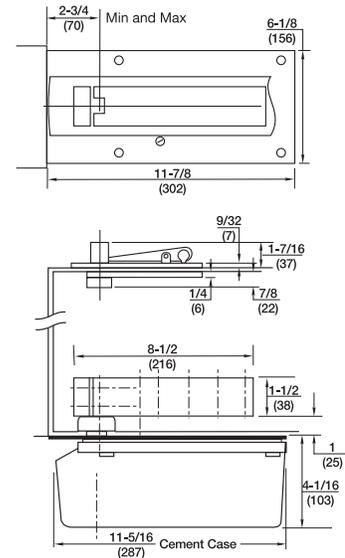
Product Description & Features

- H340 top pivot included
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- For high traffic or extra heavy doors (2" min. thickness)
- Additional thrust bearing for greater load capacity
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cast iron cement case
- Not allowed for fire rated doors
- Frame stop required at header on lock side. If not supplied by frame manufacturer, Rixson 60131 recommended. Consult Door Control Accessories Catalog.
- Furnished with wood and machine screws



Technical Information

(Frame stop required at lock edge)



Pivot edge of door must be radiused.

Optional Features

- Delayed action option – prefix “DA” (non-hold open closers only)
- Cold weather fluid option – specify “CWF” (not available for closers with “DA”)
- Sealed closer option – specify “SC”
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix “PH”. (For 8-1/2 lbs. of opening force prefix “PH” and suffix “8-1/2 lbs.”)
- ANSI/C06061

* For doors taller than 8'6" use top pivot H345 in lieu of H340

Model H28 x 587 Arm

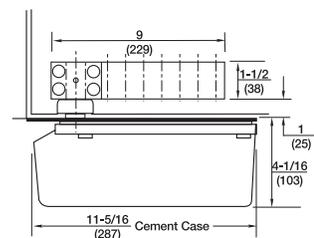
Product Description & Features

Identical to Model H28 except:

- Special side load arm for 1-3/4" thick doors
- Allows pivot point to be moved away from pivot edge of door minimum 2-3/4" backset



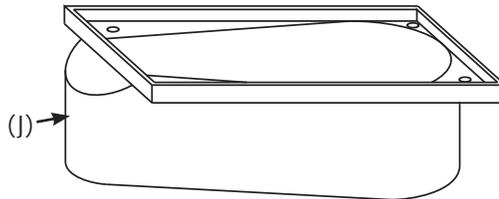
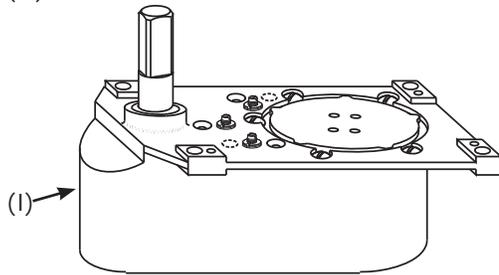
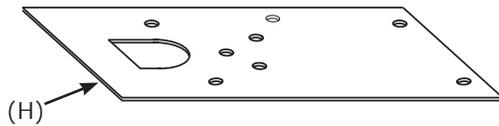
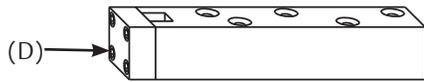
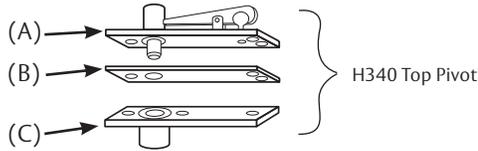
Technical Information



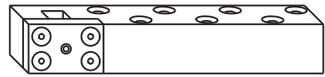
RIXSON
ASSA ABLOY

Model H28

- (A) Jamb Portion
308548
- (B) Finish Plate
012202-*PK (BRS)
012204-*PK (SS)
- (C) Door Portion
30141
- (D) Standard End Load
Arm Package
(minimum 2" door
thickness)
262022
(Includes 107060, 107045,
and 107145)
- (E) Arm Spindle Collar
259500-*
- (F) Heavy-Duty Thrust Bearing
41204-PKG (Includes
41207N)
- (G) Arm Shim Kit
107060
- (H) Floor Plate with Screws
NHO
284020R* (RH)
284020L* (LH)
SHO
284720R* (RH)
284720L* (LH)
- (I) Closer Body (Specify
Complete Model No. x LAP)
(Includes 41204- PKG)
- (J) Cement Case with Screws
253001 - PKG



587 SIDE LOAD ARM PACKAGE
FOR 1-3/4" DOOR



262587
(Includes G and attaching screws)

SCREW KITS

H340 Screw Kit
107329 Machine & Wood

587 Arm Screw Kit
107077 Machine
107145-* Wood

Arm Screw Kit
107045 Machine
107145 Wood

Floor Plate Screw Kit
107004-*

Cement Case Screw Kit
107046

*specify finish



ASSA ABLOY, the global leader
in door opening solutions

Application

- Single Acting, Handed
- Exterior or Interior Doors
- Glass Doors with Patch Fittings
- Weight up to 325 lbs.
- Size Up to 3'2" x 8'0"

Product Description & Features

- No arm or top pivot provided
- Patch fittings by others. Rixson will provide spindle configuration to fit – provide details when ordering
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- Separate and independent valves for closing speed, latch speed and backcheck
- Floor plate standard. For threshold application an extended spindle is required
- Cycolac, rustproof cement case
- Not allowed for fire rated doors
- Frame stop required at header on lock side. If not supplied by frame manufacturer, Rixson 60131 recommended. Consult Door Control Accessories Catalog.

Optional Features

- Delayed action option – prefix “DA” (non-hold open closers only)
- Cold weather fluid option – specify “CWF” (not available for closers with “DA”)
- Sealed closer option – specify “SC”
- For extended spindles, contact the factory

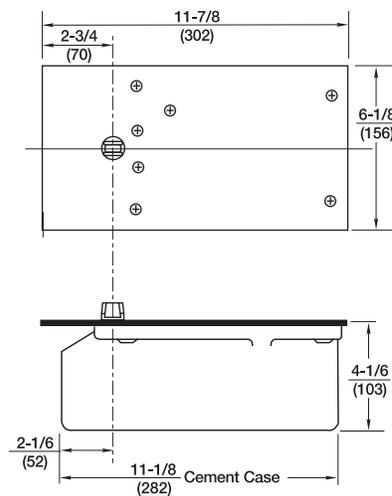
Compliance

- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix “PH”. (For 8-1/2 lbs. of opening force prefix “PH” and suffix “8-1/2 lbs.”)



Technical Information

(Frame stop required at lock edge)



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Model 428 (With Patch Fittings)

HEAVY-DUTY FLOOR CLOSERS

SINGLE-ACTING CENTER HUNG

Application

- Single Acting, Handed
- Exterior or Interior Doors
- Full Glass Doors
- Weight up to 325 lbs.
- Size Up to 3'2" x 8'0"

Product Description & Features

- Top and bottom patch fittings for tempered glass doors 3/8" - 1/2" thick
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- Separate and independent valves for closing speed, latch speed and backcheck
- Floor plate standard. For threshold application an extended spindle is required (floor plate shown)
- Cylolac, rustproof cement case
- Frame stop required at header on lock side
- 605, 629 and 630 finishes only

Optional Features

- Delayed action available – prefix “DA” (non-hold open closer only)
- Cold weather fluid option – specify “CWF” (not available for closers with “DA”)
- Sealed closer option – specify “SC”
- For extended spindles, contact the factory. No vertical adjustment

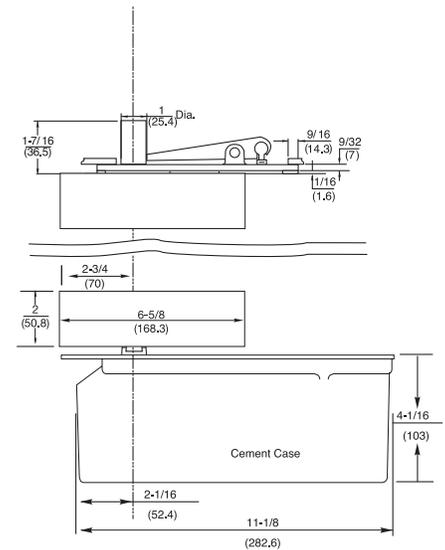
Compliance

- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix “PH”. (For 8-1/2 lbs. of opening force prefix “PH” and suffix “8-1/2 lbs.”)



Technical Information

(Frame stop required at lock edge)



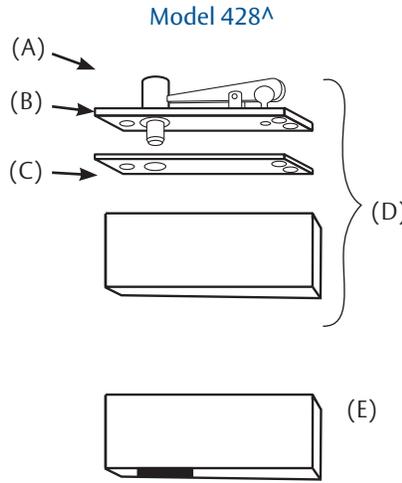
*specify finish

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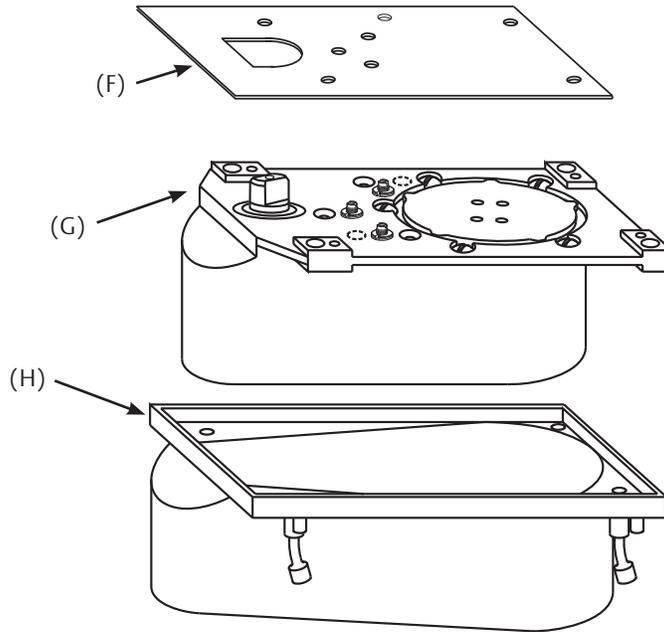
- (A) Jamb Portion
42801
- (B) Finish Plate
012202-*PK (BRS)
012204-*PK (SS)
- (C) Patch Fitting Cover
7495 - *
- (J) Bottom Pivot Insert
74101
- (K) Top Pivot Insert
74102



[^]Model 428 includes patch fittings, top pivot, cement case, closer body and floor plate (D, E, F, G & H)

- (D) Top Patch
7494-* PK
(Includes C and K)
- (E) Bottom Patch
7495-* PK
(Includes C and J)

- (F) Floor Plate with
Screws NHO
NHO
284020R* (RH)
284020L* (LH)
SHO
284720R* (RH)
284720L* (LH)
- (G) Closer Body
(Specify Complete
Model No. x LAP)
- (H) Cement Case with
Screws
253000-PKG



*specify finish

Model EH28

Application

- Single Acting, Handed
- Interior or Exterior Doors
- Floor Closer for Power Transfer
- Weight to 500 lbs.
- Sizes up to 4'0" x 8'6"* (1219 x 2591mm)

Product Description & Features

- H340 top pivot included
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- Provides power transfer through closer spindle. Low voltage, Class II wiring (2 wire, 18 gauge only)
- 2" min. door thickness
- Additional thrust bearing for greater load capacity
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cast iron cement case
- Not allowed for fire rated doors
- Frame stop required on header on lock side. If not supplied by frame manufacturer, Rixson 60131 recommended. Consult Door Control Accessories Catalog.
- Furnished with wood and machine screws

Optional Features

- Delayed action option – prefix "DA"
- Cold weather fluid option – specify "CWF" (not available for closers with "DA")
- Sealed closer option – specify "SC"
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

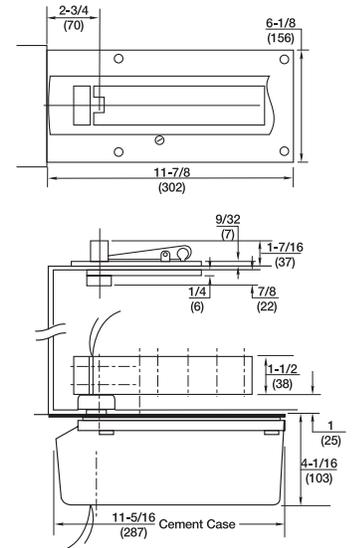
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix "PH" and suffix "8-1/2 lbs.")

* For doors taller than 8'6" use top pivot H345 in lieu of H340



Technical Information

(Frame stop required at lock edge)



Not available with ElectroLynx®

Pivot edge of door must be radiused.

Model EH28 X 587 ARM

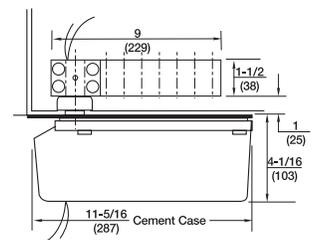
Product Description & Features

Identical to Model EH28 except:

- Special side load arm for 1-3/4" thick doors
- Allows pivot point to be moved away from pivot edge of door – minimum 2-3/4" backset



Technical Information



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Application

- Double Acting, Non-handed
- Interior or Exterior[^] Doors
- Weight to 200 lbs.
- Sizes up to 4'0" x 8'6"* (1219 x 2591mm)

Product Description & Features

- 340 top pivot included
- Available non-hold open (N) or automatic hold open (A) at 90° (requires 93° swing) or 100° (requires 103° swing)
- Maximum door opening 103°
- Centering arm with adjustment screws in faces of door (critical for double acting doors)
- Adjustable closing speed valves for each direction of door swing
- Mechanism returns door to center
- Auxiliary door stop required, overhead or floor type
- Available with floor plate or threshold installation (floor plate shown)
- Steel cement case
- Not available in Delayed Action (DA)
- Not allowed for fire rated doors
- Furnished with wood and machine screws

Optional Features

- Cold weather fluid option – specify "CWF"
- Sealed closer option – specify "SC"
- Arm reinforcement bracket for wood doors – prefix "W"
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

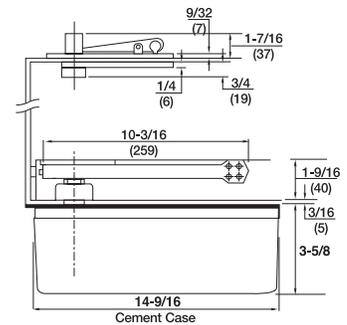
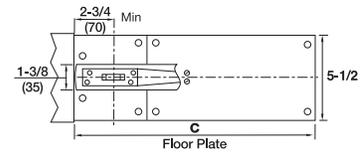
- ANSI/C06012

* For doors taller than 8'6" use top pivot 345 in lieu of 340

[^]Primary means of egress should not use double-acting closers



Technical Information



Pivot edge of door
must be radiused.

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ASSA ABLOY

Model 40

HEAVY-DUTY FLOOR CLOSERS CENTER HUNG DOUBLE ACTING

Application

- Double Acting, Non-handed
- Interior or Exterior[^] Doors
- Weight to 300 lbs.
- Sizes up to 4'0" x 8'6"* (1219 x 2591mm)

Product Description & Features

- 340 top pivot included
- Available non-hold open (N) or automatic hold open (A) at 90° (requires 93° swing) or 100° (requires 103° swing)
- Maximum door opening 103°
- Centering arm with adjustment screws in faces of door (critical for double acting doors)
- Adjustable closing speed valves for each direction of door swing
- Mechanism returns door to center
- Auxiliary door stop required, overhead or floor type
- Available with floor plate or threshold installation (floor plate shown)
- Steel cement case
- Not available in Delayed Action (DA)
- Not allowed for fire rated doors
- Furnished with wood and machine screws

Optional Features

- Cold weather fluid option – specify “CWF”
- Sealed closer option – specify “SC”
- Arm reinforcement bracket for wood doors – prefix “W”
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

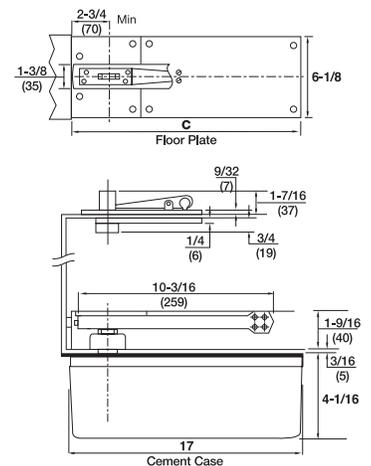
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix “PH”. (For 8-1/2 lbs. of opening force prefix PH and suffix 8-1/2 lbs.)
- ANSI/C06012

* For doors taller than 8'6" use top pivot 345 in lieu of 340

[^] Primary means of egress should not use double-acting closers



Technical Information

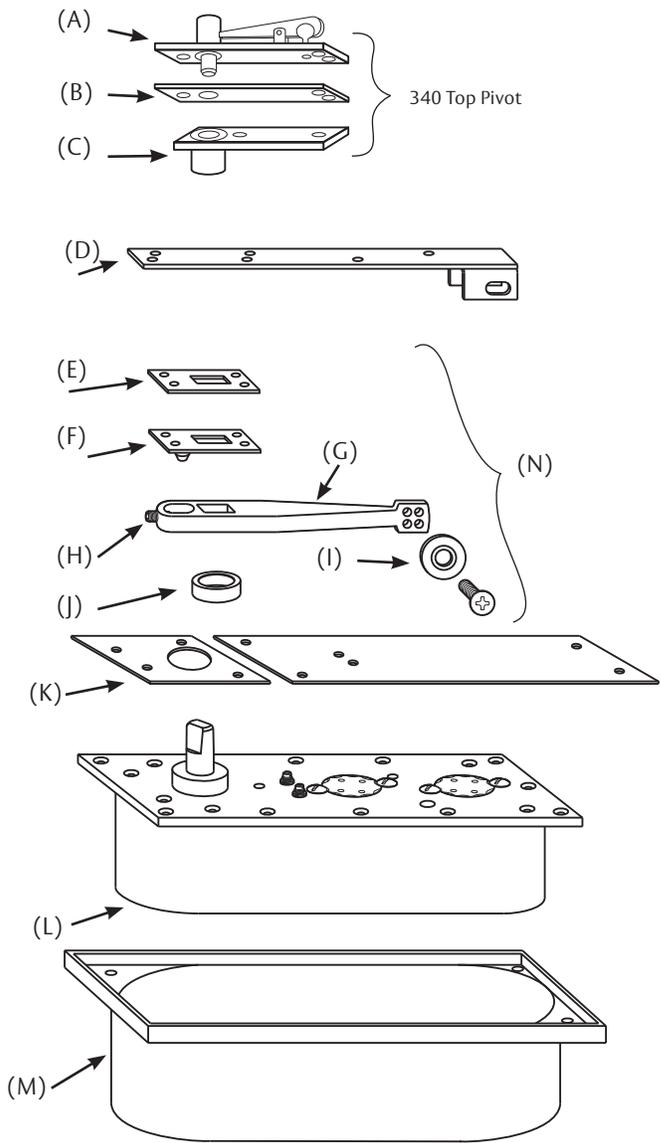


Pivot edge of door must be radiused.

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- (A) Jamb Portion
3065
- (B) Finish Plate
012202-*PK(BRS)
012204-*PK(SS)
- (C) Door Portion
30243
- (E) Arm Plate Shims (.062)
46045-PKG (5)
- (E) Arm Plate Shims (.187)
46145-PKG (5)
- (F) Arm Plate & Stud Assy
46445
- (G) Arm & Arm Set Screw
302026
- (H) Arm Set Screw Only (5)
26087-PKG
- (I) Arm Alignment
Screw & Washer (2)
107032-*
- (J) Arm Spindle Collar
259000-*
- (K) Floor Plate with Screws
(1 large and 1 small)
30 closer - 304020-*
40 closer - 404020-*
- (L) Closer Body (Specify
Complete Model No. x
LAP)
- (M) Cement Case with
Screws
30 closer - 303000
40 closer - 403000



- Wood Door Arm PKG
302126 (Includes D and G)
- (D) Wood Door Plate & Shim PKG
107066 (Includes shims and
special arm centering screws)

- (N) Bottom Arm Package
302026 -*
(Includes E, G, I, J and
attaching screws)

SCREW KITS

- 340 Screw Kit
107329 Machine & Wood
- Arm Screw Kit
107048 Machine
107144 Wood
- Floor Plate Screw Kit (2 req.)
107004-*
- Cement Case Screw Kit
107014

*specify finish

Model H40

Application

- Double Acting, Non-handed
- Interior or Exterior[^] Doors
- Weight to 1000 lbs.
- Sizes up to 4'0" x 8'6"* (1219 x 2591mm)

Product Description & Features

- H340 top pivot included
- Available non-hold open (N) or automatic hold open (A) at 90° (requires 93° swing) or 100° (requires 103° swing)
- Maximum door opening 103°
- For thick, extra heavy doors (2" min. thickness)
- Thrust bearing for greater load capacity
- Adjustable closing speed valves for each direction of door swing
- Mechanism returns door to center
- Available with floor plate or threshold installation (floor plate shown)
- Steel cement case
- Auxiliary door stop required, overhead or floor type
- This arm does not allow door centering adjustment. Not recommended for pairs of doors
- Not allowed for fire rated doors
- Furnished with wood and machine screws

Optional Features

- Cold weather fluid option – specify "CWF"
- Sealed closer option – specify "SC"
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

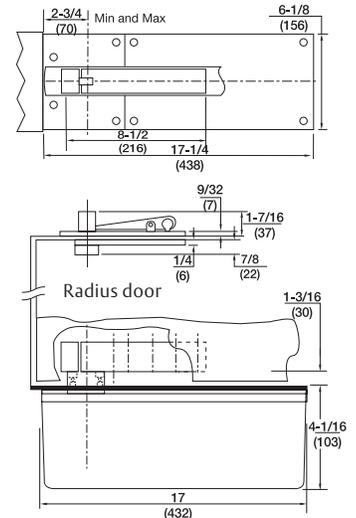
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix PH and suffix 8-1/2 lbs.)
- ANSI/C06012

* For doors taller than 8'6" use to pivot H345 in lieu of H340

[^] Primary means of egress should not use double-acting closers



Technical Information



Pivot edge of door must be radiused.

Model H40 X 587 ARM

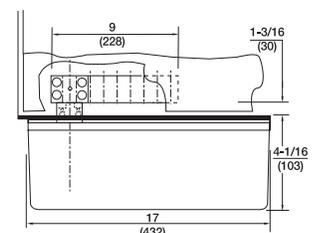
Product Description & Features

Identical to Model H40 except:

- Special side load arm for 1-3/4" thick doors
- Allows pivot point to be moved away from pivot edge of door. Minimum 2-3/4" backset



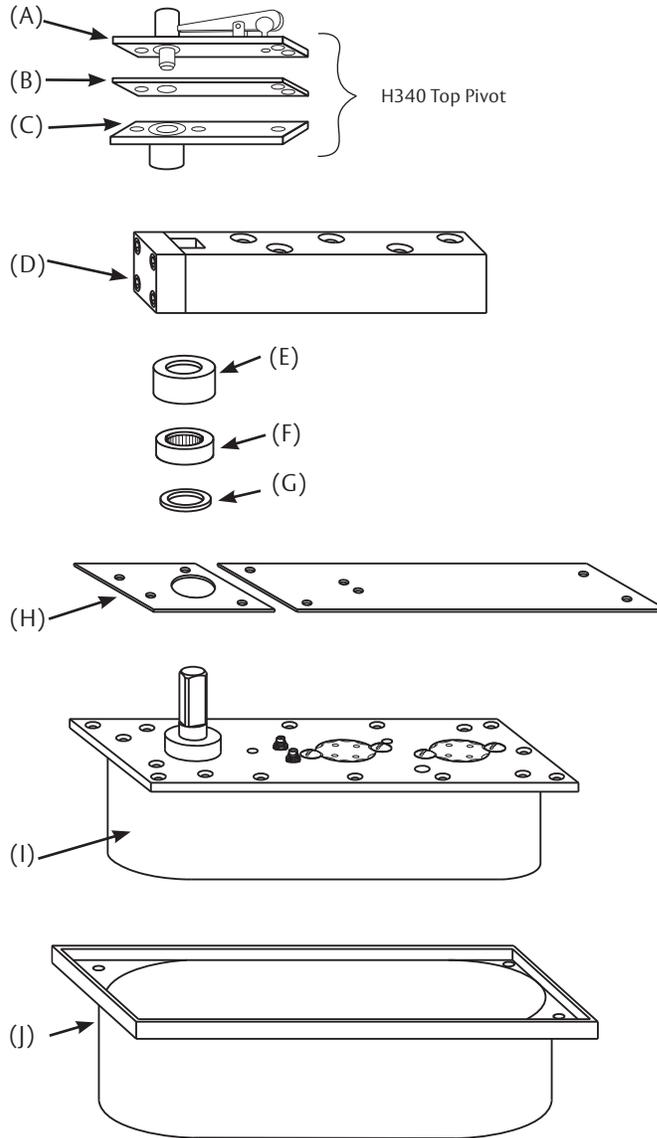
Technical Information



ASSA ABLOY, the global leader in door opening solutions

Model H40

- (A) Jamb Portion
308548
- (B) Finish Plate
012202-*PK (BRS)
012204-*PK (SS)
- (C) Door Portion
30141
- (D) Standard End Load
Arm Package
(minimum 2" door
thickness)
262022
- (E) Arm Spindle Collar
259500-*
- (F) Heavy-Duty Thrust
Bearing
41204-PKG
- (G) Arm Shim Kit
107060
- (H) Floor Plate with Screws
1 Large 1 Small
404020 -*
- (I) Closer Body (Specify
Complete Model No.
x LAP) (Includes
41204- PKG)
- (J) Cement Case with
Screws
403000



587 SIDE LOAD ARM PACKAGE
FOR 1-3/4" DOOR



262587
(Includes G and attaching screws)

SCREW KITS

H340 Screw Kit
107329 Machine & Wood

587 Arm Screw Kit
107077 Machine
107145 Wood

Arm Screw Kit
107045 Machine
107145 Wood

Floor Plate Screw Kit (2 req.)
107004-*

Cement Case Screw Kit
107014

*specify finish

345 Top Pivot

Application

- Fully Concealed
- Center Hung
- Non-handed
- Earthquake Tolerant
- Taller Doors

Product Description & Features

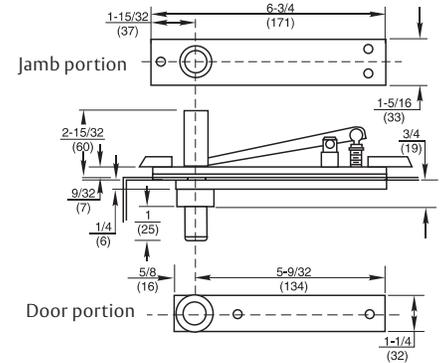
- Ideal for locations where dramatic building settling is possible. Also, for doors over 8'6" in height
- Long pivot pin engages in top of door 1-3/4" (44mm).
- Can be used with any center hung floor closer. Order the floor closer LTP (less top pivot) and the 345 top pivot separately
- Walking beam-type pivot – 1/2" (13mm) diameter pivot pin
- Oil impregnated sintered bronze bearing
- Completely concealed when door is closed
- Furnished with wood and machine screws

Compliance

- ANSI/C07021



Technical Information



H345 Top Pivot

Application

- Fully Concealed
- Center Hung
- Non-handed
- Earthquake Tolerant
- Taller Doors

Product Description & Features

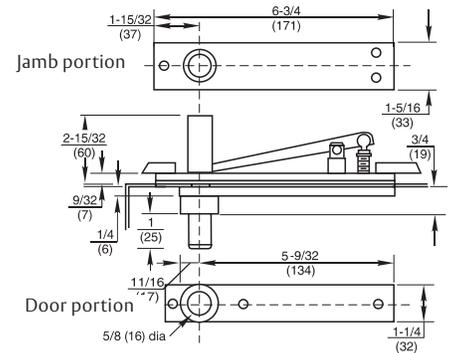
- Ideal for locations where dramatic building settling is possible or for doors over 8'6" in height
- Long pivot pin engages in top of door 1-3/4" (44mm)
- Can be used with heavy-duty (H) center hung floor closer. Order the floor closer LTP (less top pivot) and the H345 top pivot separately
- Walking beam-type pivot – 11/16" (18mm) diameter pivot pin
- Heavy-duty needle bearing
- Completely concealed when door is closed
- Furnished with wood and machine screws

Compliance

- ANSI/C07011



Technical Information



HOW TO ORDER

PH Prefix		27 Model		90 Degree of Swing		N Hold Open		x 1/2" Ext Spdl Suffix		x RH Hand		x 626 Finish	
SC	Sealed Closer			85		N	Non- Hold Open			RH	Right Hand		
DA	Delayed Action			90		A	Automatic Hold Open			LH	Left Hand		
PH	Lighter Spring (ADA)			95		S	Selective Hold Open (model 27 & 28)			Blank	Double Acting		
W	Wd Dr (center hung)			105									
F	Fire Rated Doors (offset) — Not available with PH			180									
				*(90 & 100 for 30-40 series only)									
		27	28					554	Concealed Arm			605	Bright Brass
		127	H28					587	Side Load Arm			606	Satin Brass
		427	328					Ext Spdl	Longer Spindle (extra length required)			611	Bright Bronze
		F327^	428					1-1/2"	Offset			612	Satin Bronze
		L27						CWF	Cold Weather Fluid			613	Oil Rubbed Bronze
		Q27	*30					-20	20 Minute Label			613E	Dark Oxidized Satin Bronze - equivalent
		QT27	*40					8.5#	Optional PH Spring			618	Bright Nickel
		HM27	*H40					LAP	Closer Body Only			619	Satin Nickel
		20						LFP	Less Floor Plate			622	Flat Black
								LCC	Less Cement Case			625	Bright Chrome
								LTP	Less Top Pivot			626	Satin Chrome
								—	Cover Pan (need depth)			BSP	Black Suede Powder
								—	Door Thickness (for L Product)				
								SPLO	Special Layout #				

^Hanging means template must accompany request for quote, prior to ordering.
 *Degree must be furnished for hold open units only.



PRODUCT COMPARISON CHART

OFFSET HUNG

	20	27	27-180	127	427	HM27 ⁶	L27	L27-180	Q27, QT27 ⁷
Application	Replacement	Standard	Standard	Deep reveal	Deep reveal or alcove	Hollow metal doors and frames	Lead-lined, heavy or high traffic	Lead-lined, heavy or high traffic	Arm allows closer to be removed without demounting door
3/4" offset standard	•	•	•	•	•	•	•	•	•
1-1/2" offset optional ¹		•	•				consult factory	consult factory	
Handed	•	•	•	•	•	•	•	•	•
Exterior door		•	•	•	•	•	•	•	•
Interior door	•	•	•	•	•	•	•	•	•
Non-hold open	•	•	•	•	•	•	•	•	•
Selective hold open		•		•	•	•	•		•
Automatic hold open			•					•	
Door weight	200 lbs.	450 lbs.	450 lbs.	250 lbs.	250 lbs.	250 lbs.	1500 lbs.	1500 lbs.	350 lbs.
Maximum door swing ²	180°	105°	180°	105°	105°	95°	105°	180°	95°
Maximum door width	36"	48"	48"	48"	48"	48"	48"	48"	48"
Standard top pivot (included)	180	180	180	180	180x102	N/A	L180	L180	180
Intermediate pivot (order separately) ³	M19	M19	M19	119	119	N/A	ML19	ML19	(1) M19 included
Standard 1-3/4" door thickness	•	•	•	•	•	•	•	•	•
Optional door thicknesses available ⁴							•	•	
Extended spindles available ⁵	•	•	•	•	•	•	•	•	•
Options	PH, F, -20	SC, DA, PH, F, CWF, -20	SC, PH, F, CWF, -20	SC, DA, PH, F, CWF, -20	SC, DA, PH, CWF	SC, DA, PH, F, CWF, -20	SC, DA, PH, F, CWF, -20	SC, PH, F, -20	SC, DA, PH, F, CWF, -20
Furnished with wood and machine screws	•	•	•		•	•	•	•	•

Note: All offset closers have positive deadstop except models F327 and 20

1. Recommended door weight will be less when 1-1/2" offset is specified
2. Door swing must be specified when ordering several models. Models 27, 127, 427 and L27; specify 85°, 90°, 95° or 105°. Q/QT models; specify 85°, 90° or 95°
3. Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
4. Can accommodate the following door thicknesses: 2", 2-1/4", 2-1/2" or 3". Specify when ordering
5. 1/2" increments up to 2"
6. Shipped with (3) special hinges
7. Q: includes floor plate, QT: for threshold applications
8. Delayed Action only available with NHO closers
9. CWF not available for closers with DA

Optional Features	Designation
Sealed Closer	SC
Delayed Action ⁸	DA
Physically Handicapped	PH
Fire Rated	F
Cold Weather Fluid ⁹	CWF
20 minute label	-20

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PRODUCT COMPARISON CHART

CENTER HUNG, SINGLE ACTING

	28	28x554	328	428	EH28 ³	EH28x587 ^{3,4}	H28	H28x587 ⁴
Application	Standard	Standard; concealed arm eliminates visible adjusting screws	Glass doors with patch fittings (by others)	Full glass doors with patch fitting (by others)	Floor closer for power transfer through closer spindle	Floor closer for power transfer through closer spindle; side load arm	Extra Heavy, High Traffic Doors	Extra Heavy, High Traffic Doors; side load arm
Handed	•	•	•	•	•	•	•	•
Exterior door	•	•	•	•	•	•	•	•
Interior door	•	•	•	•	•	•	•	•
Non-hold open	•	•	•	•	•	•	•	•
Selective hold open	•	•	•	•	•	•	•	•
Door weight	350 lbs.	350 lbs.	325 lbs.	325 lbs.	500 lbs.	500 lbs.	1000 lbs.	1000 lbs.
Maximum door swing ¹	105°	105°	105°	105°	105°	105°	105°	105°
Maximum door width	48"	48"	38"	38"	48"	48"	48"	48"
Standard top pivot (included)	340	340	N/A	Special to fit patch fitting	H340	H340	H340	H340
Standard door thickness	1-3/4"	1-3/4"	N/A	3/8" - 1/2" thick tempered glass doors	2"	1-3/4"	2"	1-3/4"
Frame stop required	•	•	•	•	•	•	•	•
Extended spindles available ²	•	•	Consult factory	Consult factory	•	•	•	•
Optional Features	SC, DA, PH, W, CWF	SC, DA, PH, CWF	SC, DA, PH, CWF	SC, DA, PH, CWF	SC, DA, PH, CWF	SC, DA, PH, CWF	SC, DA, PH, CWF	SC, DA, PH, CWF
Furnished with wood and machine screws	•	•			•	•	•	•

Notes:

- Center hung closers are not allowed on fire rated doors
- Doors taller than 8'6", use 345 in lieu of 340 top pivot and H345 in lieu of H340 top pivot
- All single acting closers have positive deadstop

1. Door swing must be specified when ordering center hung single acting closers. Single acting closers: specify 85°, 90°, 95° or 105°
2. 1/2" increments up to 2"
3. Low voltage Class II wiring (2 wire, 18 gauge only)
4. Side load arm allows pivot point to be moved away from pivot edge of door; minimum 2-3/4" backset
5. Delayed Action only available with NHO closers
6. Cold Weather Fluid not available for closers with Delayed Action

Optional Features	Designation
Sealed Closer	SC
Delayed Action ⁵	DA
Physically Handicapped	PH
Wood Door	W
Cold Weather Fluid ⁶	CWF



PRODUCT COMPARISON CHART

CENTER HUNG, DOUBLE ACTING

	30	40	H40 ³	H40x587 ⁴
Application	Standard	Standard	Extra Heavy, High Traffic Doors	Extra Heavy, High Traffic Doors; Side Load Arm
Exterior door	•	•	•	•
Interior door	•	•	•	•
Non-hold open	•	•	•	•
Automatic hold open	•	•	•	•
Door weight	200 lbs.	300 lbs.	1000 lbs.	1000 lbs.
Maximum door swing ¹	103°	103°	103°	103°
Maximum door width	48"	48"	48"	48"
Standard top pivot (included)	340	340	H340	H340
Standard 1-3/4" door thickness	•	•	2" (min)	•
Extended spindles available ²	•	•	•	•
Optional Features	SC, PH, W, CWF	SC, PH, W, CWF	SC, PH, CWF	SC, PH, CWF
Furnished with wood and machine screws	•	•	•	•

Notes:

- Center hung closers are not allowed on fire rated doors
- Primary means of egress should NOT use double acting closers
- Doors taller than 8'6", use 345 in lieu of 340 top pivot and H345 in lieu of H340 top pivot

- Door swing must be specified when ordering closers. Specify 90° or 100°. Door will swing 3° beyond specified degree.
- 1/2" increments up to 2"
- Arm does not allow centering adjustment; NOT recommended for pair of doors
- Side load arm allows pivot point to be moved away from pivot edge of door; minimum 2-3/4" backset
- CWF not available for closers with DA

Optional Features	Designation
Sealed Closer	SC
Physically Handicapped	PH
Wood Door	W
Cold Weather Fluid ⁵	CWF

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For a complete listing of products and applications please visit our web site.
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www.assaabloydss.ca

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OVERHEAD CONCEALED CLOSERS

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INTRODUCTION



Model 91 Shown

INTRODUCTION

Rixson Overhead Concealed closers offer an aesthetically appealing way to close a door. In situations where a closer is needed but concealment is required, Rixson offers several different series to meet your application demands. Concealed for minimal appearance, these offset hung or center hung (single or double acting) door closers provide control without sacrificing the aesthetics of the opening.

Series	Architectural Grade	Commodity Grade	Single Acting	Double Acting	Handed	ADA Compliant Model Available	Grade 1 Certified	Door Weight
90	•		•		•	•	•	250 lbs
700	•		•		•			200 lbs
800	•			•				200 lbs
0608		•	•		•			200 lbs
608		•	•	•				200 lbs

TABLE OF CONTENTS

General Information 3

Specifications 3

90 Series 4-5

90 Parts List 6-7

700/800 Series 8-11

700/800 Parts List 12-15

0608 Series 16-17

0608 Parts List 18-19

608 Series 20-21

608 Parts List 22-25



GENERAL INFORMATION

Non-Hold Open closers do not hold the door open. This feature cannot be changed in the field on the 608, 700, or 800 series closers.

Hold Open closers hold the door open. This feature cannot be changed in the field on the 608, 700, or 800 series closers.

The degree of swing must be specified on some closers (refer to specific product pages for requirements).

When the door closer must be concealed above the ceiling or drywall, a longer or extended spindle is required. Regular and 1/4" extended spindles available. Closer adjustment valves must always be accessible.

End caps are used to cover the mortise edges for wood doors on center hung 608 and 700/800 models. Two 199 End Caps can be furnished; one for the top arm and one for the bottom pivot.

Mounting brackets or boxes for aluminum, wood or metal frames must be specified when ordering the 608 and 700/800 series.

SPECIFICATIONS

Model 91:

Model 91 shall be used for offset hung doors. Closer shall fit in a 1-3/4 x 4 aluminum tube. Closer shall have adjustable spring that complies to accessibility codes. Adjustable spring, backcheck, and closing speed valves must be accessible after door is installed. Where applicable, a hold open feature is achieved in the track. Closer shall be Grade 1 per ANSI A156.4. Closer shall be fire rated UL10C for doors tested for overhead concealed products up to 3 hours.

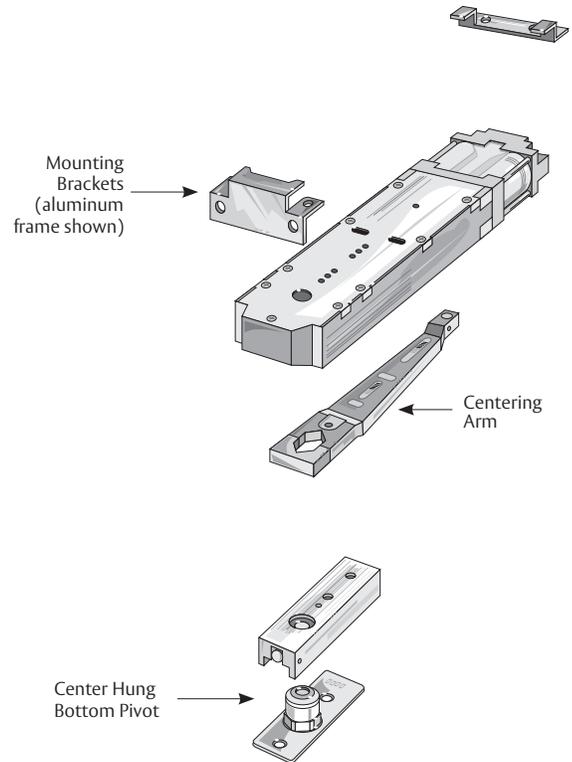
Models 700/800

Model 700 for single acting center hung doors. Hydraulic closer mechanism to fit in minimum 1-3/4" x 4" aluminum frame. Closer shall have a sized spring determined by the door width. Adjustable hydraulic backcheck and closing speed valves. Closers for single acting doors shall be handed and preloaded for positive closing action. Vertically adjustable center hung bottom pivot included. For double acting doors, use model 800 with adjustable closing speed for each swing direction. Hold open (option) is achieved through the closer body and degree called out.

Model 608

Compact cast iron body to fit in minimum 1-3/4 x 4" aluminum frame. Closer shall have separate and independent closing and latch speed control valves. Optional hold open at 90 or 105°. For center hung applications, arm shall have door centering adjustments and be directly connected to the closer spindle. Closer body is non-handed, single or double acting. Vertically adjustable center hung bottom pivot included. For independently hung doors use model 0608 with slide track arm and channel.

800 Series Shown



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Application

- Exterior or interior doors
- Door weight up to 250 lbs.
- Maximum door size: exterior 4' x 8'; interior 4'6" x 8'
- Minimum aluminum frame size 1-3/4" x 4"

Features

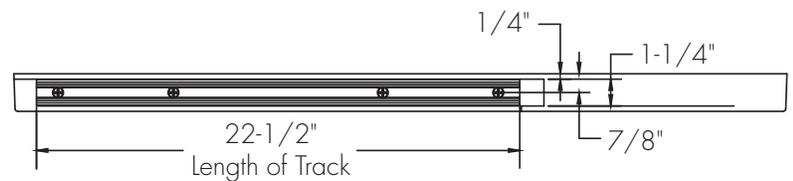
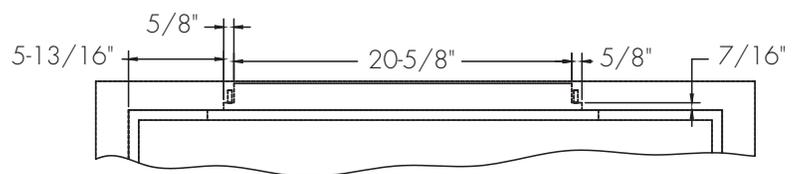
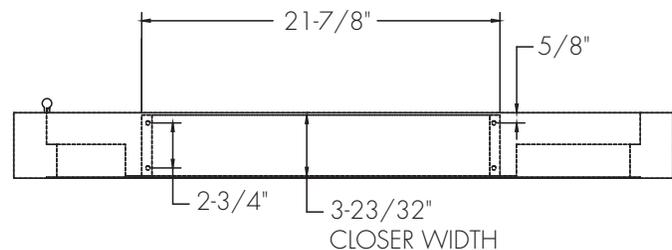
- Single acting, offset hung
- Heavy-duty cast iron closer body
- Forged arms
- Steel alloy track
- One-piece mounting plate
- 1-1/4" piston diameter
- Adjustable spring 3-6 for larger doors or fire rated openings (specify 91)
- Adjustable spring 1-3 for lighter opening force (specify PH91 – ADA compliant)
- Handed
- Staked, brass adjusting valves
- Product shipped with all wood and all metal screws
- Separate and independent closing speed and latch speed valves
- Separate and independent hydraulic backcheck valve
- All weather fluid (accommodates a temperature range from - 40° to 150°F.)
- Hanging means by others. If products other than 3/4" offset pivots or 4-1/2" x 4-1/2" butt hinges are used, contact factory for special templating and pricing
- 5 year limited warranty
- Hold open; can be achieved by adding hold open assembly to track. Specify 91H. (Standard hold open with pivot is 85°; 85°-105° with butt hinges)
- Extended spindle; 1/2" longer than standard closer spindle. Must be ordered as part of the closer; cannot be added later
- Wood frame; specify prefix W (W91N, WPH91N, W91H, WPH91H)

Compliance

- ANSI/C05031/C05041
- A156.4 Grade 1 certified
- UL / cUL listed for use on fire rated doors
- UL10C listed for positive pressure fire test. Ratings are 3 hours for hollow metal door and 1-1/2 hour rated wood doors. PH91 not recommended.
- PH91 meets requirements for Americans with Disabilities Act (ADA)



TECHNICAL INFO

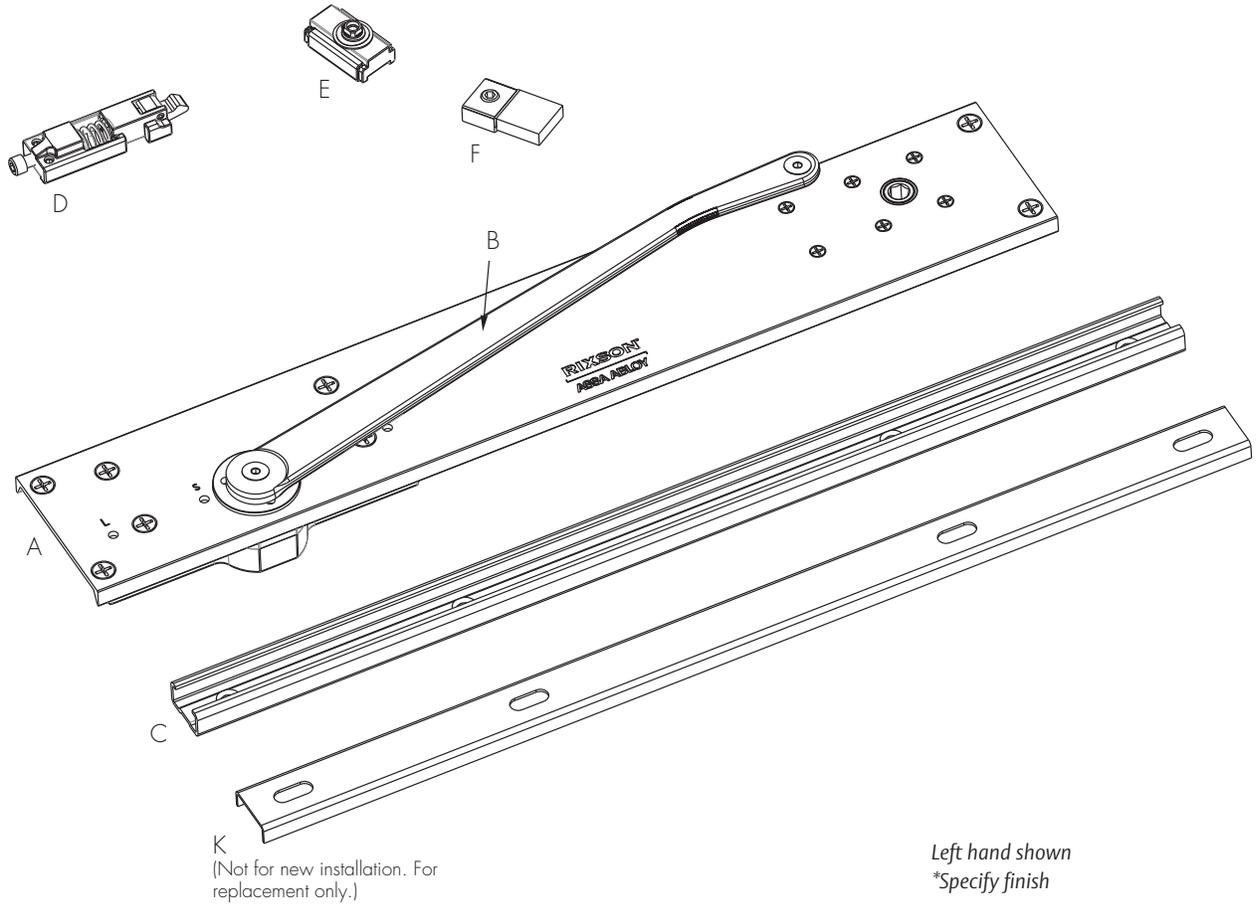


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HOW TO ORDER

WPH Prefix	91 Model	N Function	Options	RH Hand	x 626 Finish
PH - 1-3 Spring W - Wood Frame		N - Non-Hold Open H - Hold Open	1/2" extended spindle	RH - Right Hand LH - Left Hand	689 Spayed Aluminum 690 Sprayed Dark Bronze 691 Sprayed Light Bronze 693 Sprayed Black 696 Sprayed Brass 605 Bright Brass 606 Satin Brass 612 Satin Bronze 613 Dark Bronze 613E Dark Oxidized Satin Bronze - equivalent 618 Bright Nickel 619 Satin Nickel 625 Bright Chrome 626 Satin Chrome BSP Black Suede Powder





K
(Not for new installation. For replacement only.)

Left hand shown
*Specify finish

PACKAGES

Right Hand Arm Package
90237-***PKG (includes 90237, 90259 and 90253)

Left Hand Arm Package
90236-***PKG (includes 90236, 90259 and 90253)

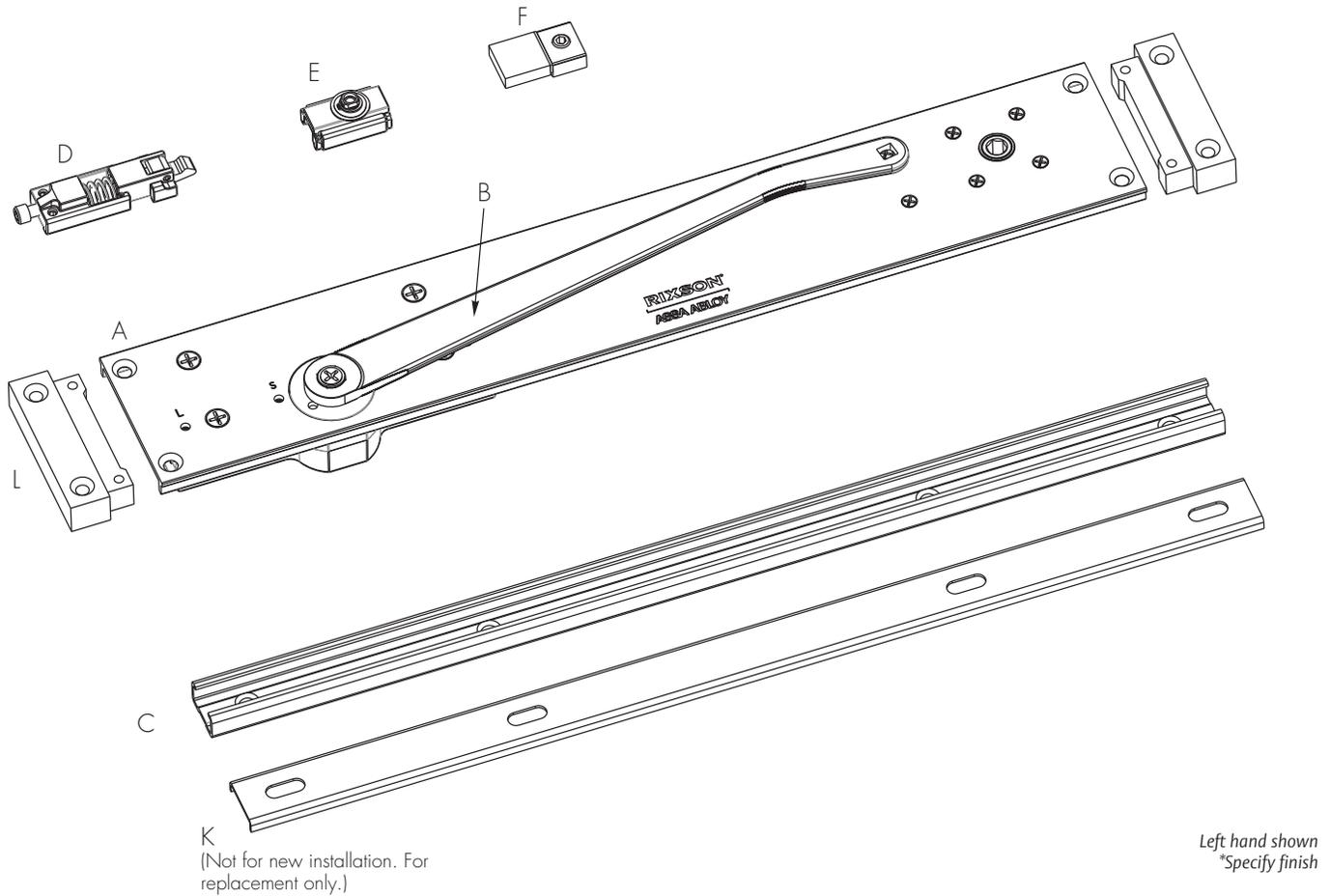
Non-Hold Open Track Assembly
90255-ASY (includes 90255, 90242 and 90239)

Hold Open Track Assembly
90254-ASY (includes 90254, 90242 and 90239)

- (A) Closer Body (Specify hand, function, finish x LAP)
- (B) Arm 90236-*** (LH)
90237-*** (RH)
- (C) Track 90239
- (D) Hold Open Assembly 90254
- (E) Slider 90253
- (F) Non-Hold Open Stop Block 90255
- (G) Arm Screw Kit 90259-***
- (H) Closer Screw Kit 90241-***
- (J) Track Screw Kit 90242
- (K) Retrofit Track Spacer and Screws (Consult Factory)



Model W91



PACKAGES

Right Hand Arm Package

90237-***PKG (includes 90237, 90259 and 90253)

Left Hand Arm Package

90236-***PKG (includes 90236, 90259 and 90253)

Non-Hold Open Track Assembly

90255-ASY (includes 90255, 90242 and 90239)

Hold Open Track Assembly

90254-ASY (includes 90254, 90242 and 90239)

- (A) Closer Body (Specify hand, function, finish x LAP)
- (B) Arm 90236-*** (LH)
90237-*** (RH)
- (C) Track 90239
- (D) Hold Open Assembly 90254
- (E) Slider 90253
- (F) Non-Hold Open Stop Block 90255
- (G) Arm Screw Kit 90259-***
- (H) Closer Screw Kit 90241-***
- (J) Track Screw Kit 90242
- (K) Retrofit Track Spacer and Screws (Consult Factory)
- (L) Wood Frame Clip 90257-***

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Application

- Exterior or interior doors
- Door weight up to 200 lbs.

Features

- Single acting
- Handed
- Available non-hold open (N) or automatic hold open (A). Specify 90° or 105°, N or A
- Frame stop required. See Door Control Accessories Catalog (part number 60131). Order separately.
- Adjustable closing speed valve
- Adjustable hydraulic backcheck
- Includes 2183020 bottom pivot
- Product should always be used with auxiliary stop
- 2 year limited warranty

Optional Features

- Extended spindle; 1/2" longer than standard closer spindle. Must be ordered as part of the closer; cannot be added later
- End cap 199 for top and bottom of wood door

Compliance

- ANSI CO5052
- Compliant to ANSI A156.4 standards

Models

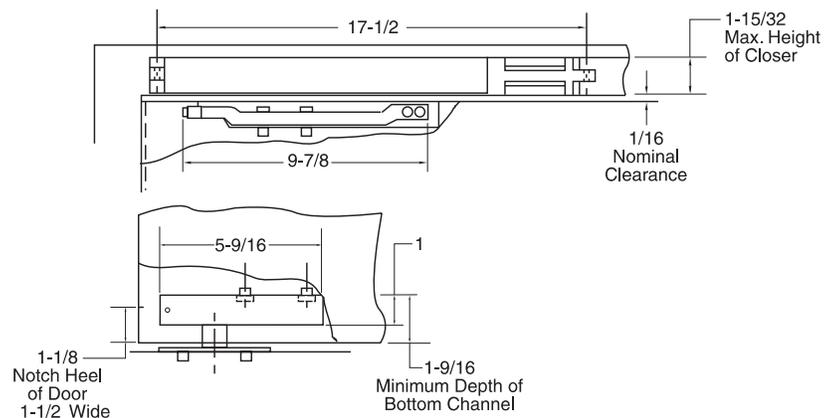
- 700 should be used on aluminum doors and frames. Package includes closer body, arm, frame mounting clips 1639000 and bottom pivot 2183020. Frame size 1-3/4" x 4" minimum.
- M700 should be used on metal doors and frames. Package includes closer body, arm, cover plate, frame mounting channel 1929000* and bottom pivot 2183020. Frame size 2"x 5-1/2" minimum.
- MW700 should be used on wood doors and metal frames. Package includes closer body, arm, cover plate, frame mounting channel 1929000* and bottom pivot 2183020. Frame size 2"x 5-1/2" minimum.
- W700 should be used on wood doors and frames. Package includes closer body, arm, cover plate, frame mounting channel 1980910 and bottom pivot 2183020. Frame size 2"x 5-1/2" minimum.



Closer shown with cover, furnished with W, M, MW models



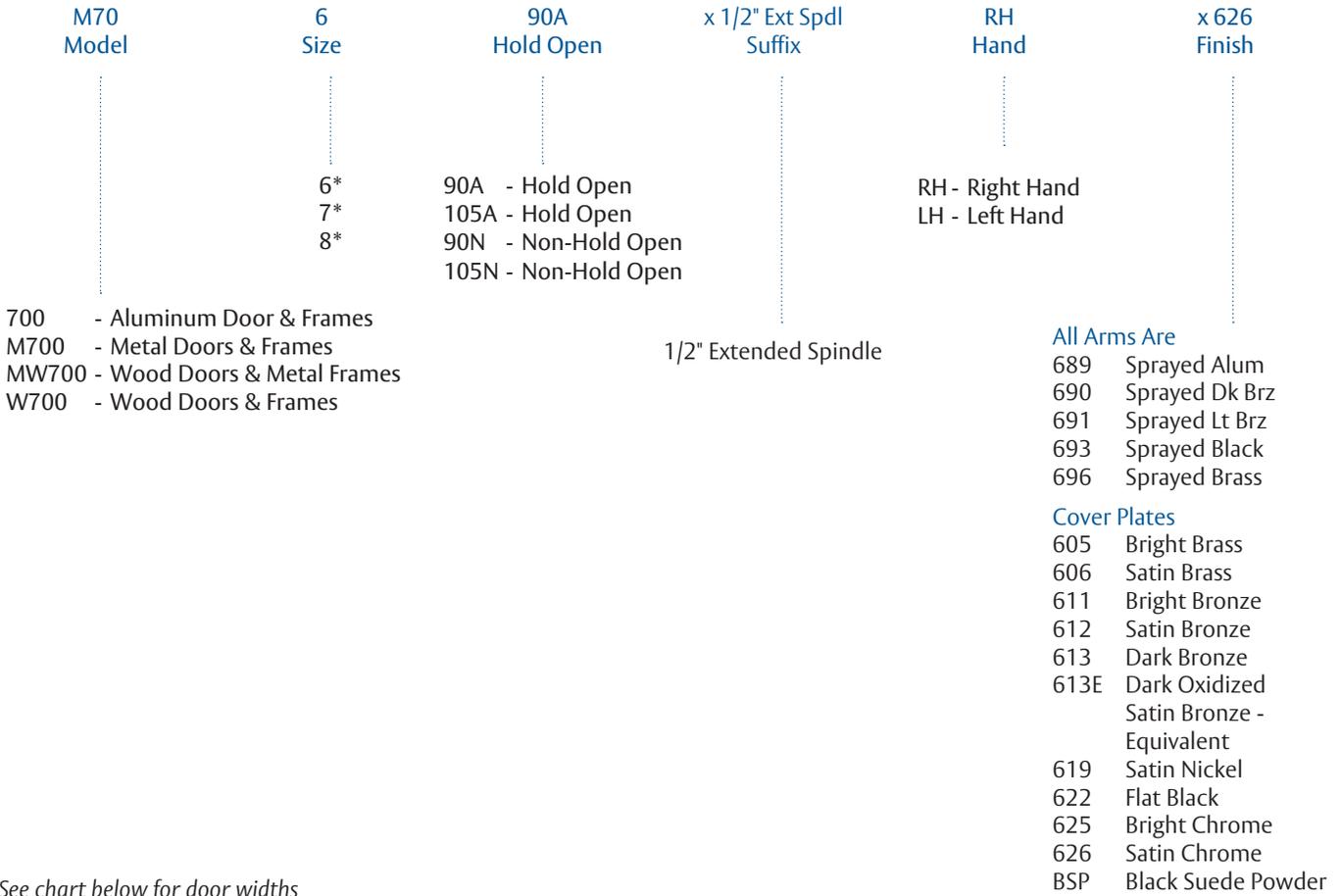
TECHNICAL INFO



*Note that mounting channels must be welded into frames prior to shipment to job site.

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HOW TO ORDER



*See chart below for door widths

SIZE

706, M706, MW706, W706
Exterior 2'6" (762mm)
Interior 3'0" x (914mm)

707, M707, MW707, W707
Exterior 3'0" (914mm)
Interior 3'3" (991mm)

708, M708, MW708, W708
Exterior 3'6" (1067mm)
Interior 3'8" (1118mm)

Standard door height = 8'



ASSA ABLOY, the global leader in door opening solutions

Application

- Exterior or interior doors
- Door weight up to 200 lbs.

Features

- Double acting
- Non-handed
- Available non-hold open (N) or automatic hold open (A). Specify 90° or 105°, N or A
- Adjustable closing speed valve
- Includes 2183020 bottom pivot
- Product should always be used with auxiliary floor or wall stop
- 2 year limited warranty

Optional Features

- Extended spindle; 1/2" longer than standard closer spindle. Must be ordered as part of the closer; cannot be added later
- End cap 199 for top and bottom of wood door

Compliance

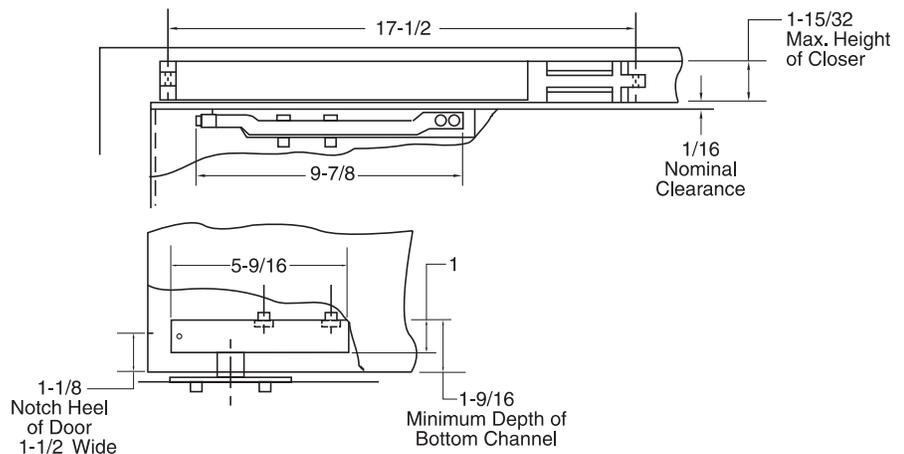
- ANSI CO5052/CO5062
- Compliant to ANSI A156.4 standards

Models

- 800 should be used on aluminum doors and frames. Package includes closer body, arm and frame mounting clips 1639000 and bottom pivot 2183020. Frame size 1-3/4" x 4".
- M800 should be used on metal doors and frames. Package includes closer body, arm, cover plate, frame mounting channel 1929000* and bottom pivot 2183020. Frame size 2" x 5-1/2"
- MW800 should be used on wood doors and metal frames. Package includes closer body, arm, cover plate, frame mounting channel 1929000* and bottom pivot 2183020. Frame size 2" x 5-1/2".
- W800 should be used on wood doors and frames. Package includes closer body, arm, cover plate, frame mounting channel 1980910, and bottom pivot 2183020. Frame size 2" x 5-1/2".



TECHNICAL INFO



**Note that mounting channels must be welded into frames prior to shipment to job site.*

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HOW TO ORDER

M80 Model	6 Size	90A Hold Open	x 1/2" Ext Spdl Suffix	RH Hand	x 626 Finish
	6* 7* 8*	90A - Hold Open 105A - Hold Open 90N - Non-Hold Open 105N - Non-Hold Open	1/2" Extended Spindle	RH - Right Hand LH - Left Hand	
800 - Closer for Aluminum Door and Frames M800 - Closer for Metal Doors and Frames MW800 - Closer for Wood Doors and Metal Frames W800 - Closer for Wood Doors and Frames					<p>All Arms Are</p> <p>689 Sprayed Alum 690 Sprayed Dk Brz 691 Sprayed Lt Brz 693 Sprayed Black 696 Sprayed Brass</p> <p>Cover Plates</p> <p>605 Bright Brass 606 Satin Brass 611 Bright Bronze 612 Satin Bronze 613 Dark Bronze 613E Dark Oxidized Satin Bronze - Equivalent 619 Satin Nickel 622 Flat Black 625 Bright Chrome 626 Satin Chrome BSP Black Suede Powder</p>

*See chart below for door widths

SIZE

806, M806, MW806, W806
Exterior 2'6" (762mm)
Interior 3'0" x (914mm)

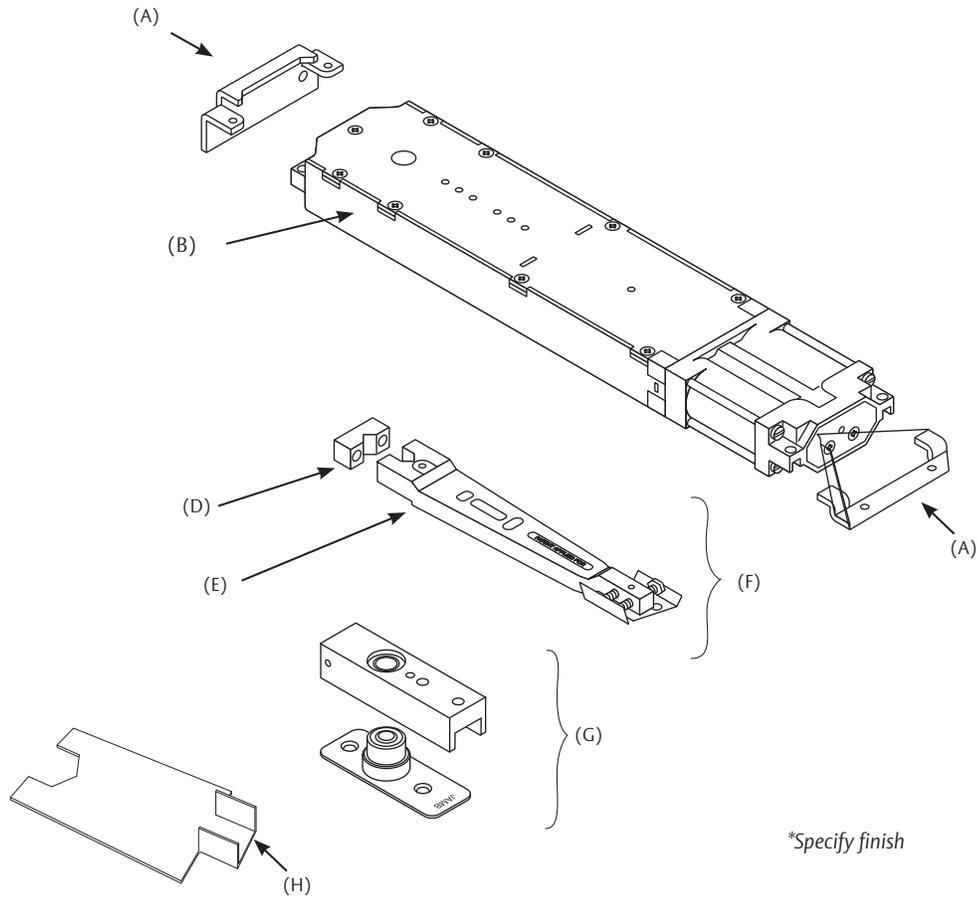
807, M807, MW807, W807
Exterior 3'0" (914mm)
Interior 3'3" (991mm)

808, M808, MW808, W808
Exterior 3'6" (1067mm)
Interior 3'8" (1118mm)

Standard door height = 8'



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SCREW KITS

Bottom Pivot Screw Kit 107218

Arm Screw Kit 107055 (Includes arm end block)

Arm Block Screw 806018-PKG

(A) Attaching Bracket 1639000

(B) Closer Body (Specify Complete Model No. x LAP)

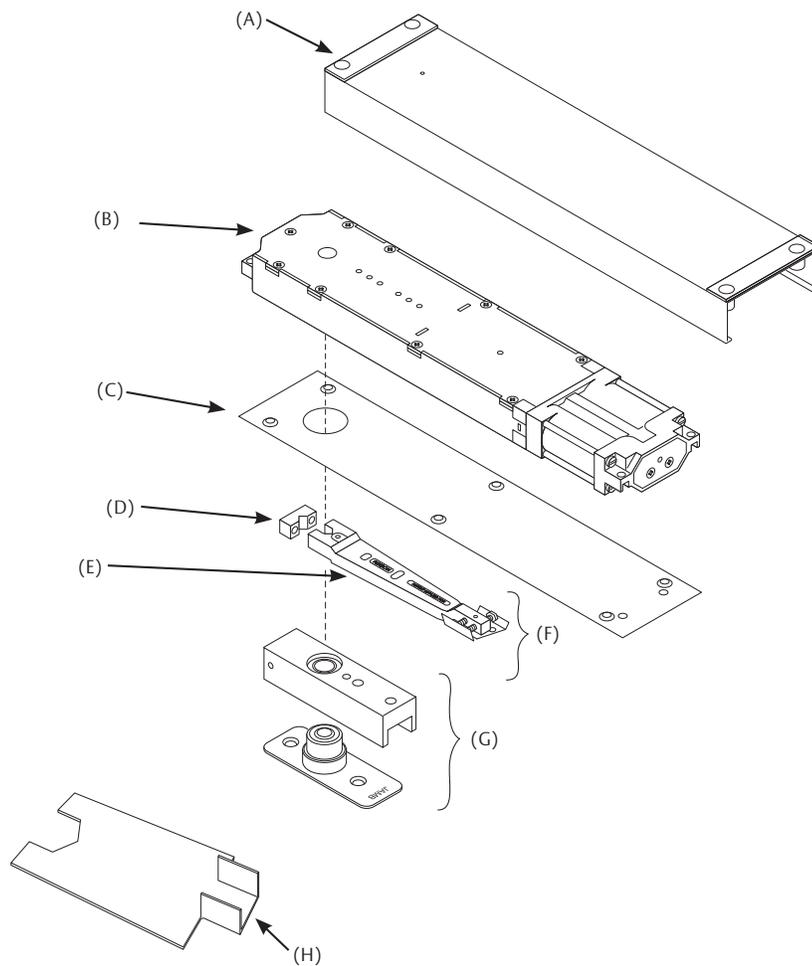
(D) Arm Block 808075-1

(E) Arm Assembly 808175

(F) Arm Package 8002020

(G) Bottom Pivot Package 2183020 (Includes H)

(H) Pivot Wrench 218007



*Specify finish

SCREW KITS

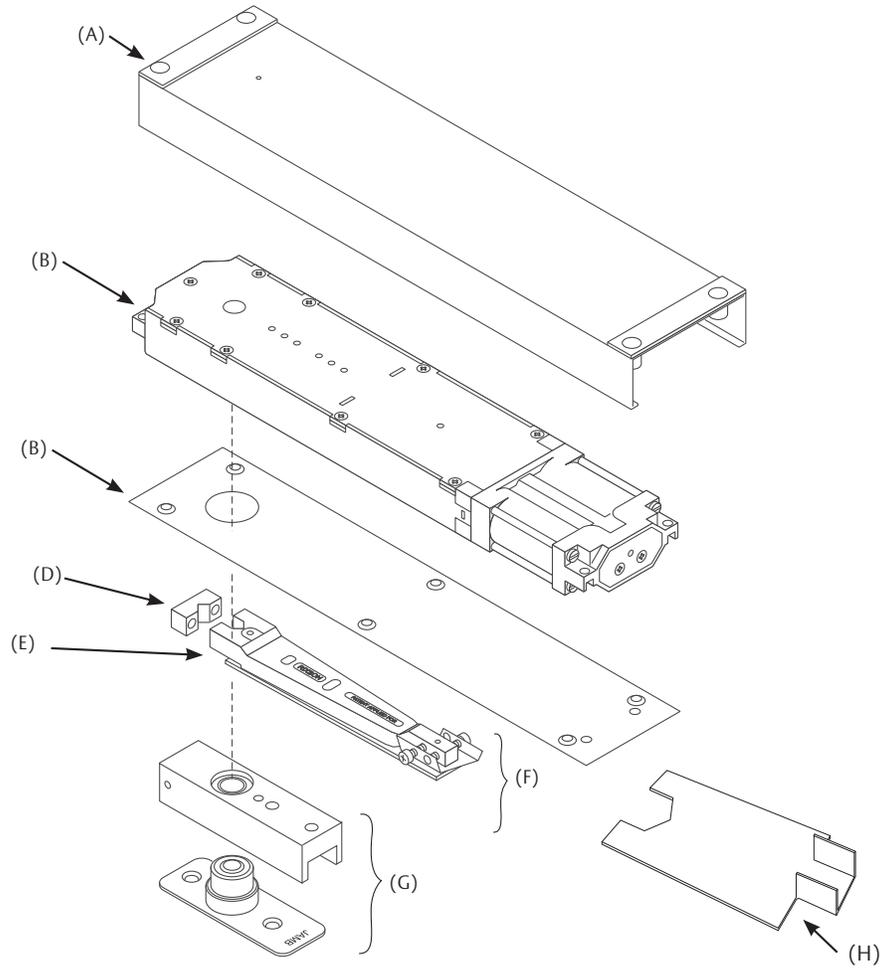
Bottom Pivot Screw Kit 107218

Arm Screw Kit 107055 (Includes arm end block)

Arm Block Screw 806018-PKG

Cover Plate Screw Kit 107006-*

- (A) Closer Mounting Channel 1929000
- (B) Closer Body (Specify Complete Model No. x LAP)
- (C) Cover Plate
700 Series, 7004000R* (RH), 7004000L* (LH)
800 Series, 8004000-*
- (D) Arm Block, 808075-1
- (E) Arm Assembly, 808175
- (F) Arm Package, 8002020
- (G) Bottom Pivot Package, 2183020 (Includes H)
- (H) Pivot Wrench, 218007



Decorative Arm Cap (contains 2 caps)
1990906-* (612 and 627 only)

*Specify finish

SCREW KITS

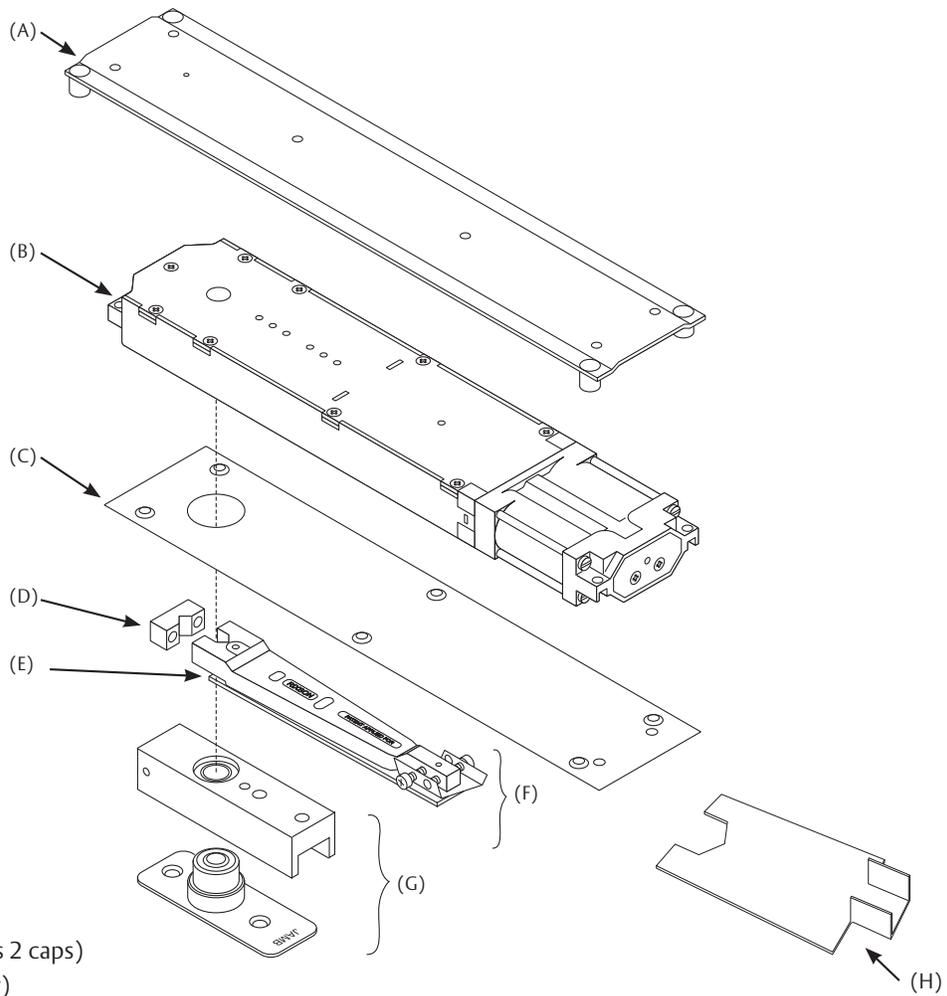
Bottom Pivot Screw Kit 107218

Arm Screw Kit 107055 (Includes arm end block)

Arm Block Screw 806018-PKG

Cover Plate Screw Kit 107006-*

- (A) Closer Mounting Channel 1929000
- (B) Closer Body (Specify Complete Model No. x LAP)
- (C) Cover Plate
700 Series, 7004000R* (RH), 7004000L* (LH),
800 Series, 8004000-*
- (D) Arm Block 808075-1
- (E) Arm Assembly 808174
- (F) Arm Package 8002021
- (G) Bottom Pivot Package 2183020 (Includes H)
- (H) Pivot Wrench 218007



Decorative Arm Cap (contains 2 caps)
1990906-* (612 and 627 only)

*Specify finish

SCREW KITS

- Bottom Pivot Screw Kit 107218
- Arm Screw Kit 107055 (Includes arm end block)
- Arm Block Screw 806018-PKG
- Cover Plate Screw Kit 107006-*

- (A) Closer Mounting Channel 1980910
- (B) Closer Body (Specify Complete Model No. x LAP)
- (C) Cover Plate
7004000R* (RH),
7004000L* (LH)
- (D) Arm Block 808075-1
- (E) Arm Assembly 808174
- (F) Arm Package 8002021
- (G) Bottom Pivot Package 2183020 (Includes H)
- (H) Pivot Wrench 218007



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Application

- Exterior or interior doors
- Door weight up to 200 lbs.
- Maximum door size 3'8" x 8'

Features

- Single acting
- Non-handed
- Adjustable spring
- Available non-hold open (N) (door swings to 130°)
- Available automatic hold open - specify 90° or 105° (A)
- Arms only available in sprayed finishes
- Adjustable closing and latch speeds
- Removable frame stop required
- Product should always be used with auxiliary floor or wall stop
- Hanging means by others. Recommended product - pivot set 547. See Pivot Catalog.
- Cannot be used with a top pivot
- 2 year limited warranty

Optional Features

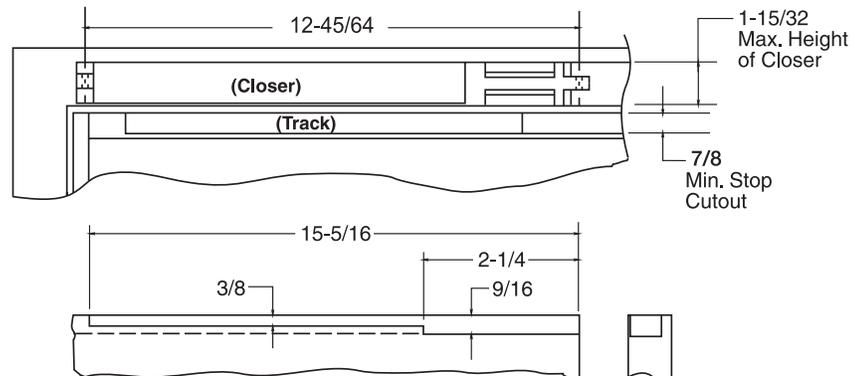
- Extended spindle; 1/2" longer than standard closer spindle. Must be ordered as part of the closer; cannot be added later

Models

- M0608 should be used on metal doors and frames. Package includes closer body, arm, frame mounting box 608049PKG*, and cover plate. Frame size 2" x 5-1/2" minimum.
- MW0608 closer should be used on wood doors and metal frames. Package includes closer body, arm, frame mounting box 608049PKG* and cover plate. Frame size 2" x 5-1/2" minimum.
- W0608 closer should be used on wood doors and frames. Package includes closer body, arm, frame mounting box 608049PKG and cover plate. Frame size 2" x 5-1/2" minimum.
- AW0608 closer should be used on wood doors and aluminum frames. Package includes closer body, arm and frame mounting clips. Frame size 1-3/4" x 4".



TECHNICAL INFO



*Note that mounting channels must be welded into frames prior to shipment to job site.

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HOW TO ORDER

M0608
Model

90A
Hold Open

x 1/2" Ext Spdl
Suffix

x 626
Finish

- 0608 - Closer for Aluminum Door and Frames
- M0608 - Closer for Metal Doors and Frames
- MW0608 - Closer for Wood Doors and Metal Frames
- W0608 - Closer for Wood Doors and Frames
- AW0608 - Closer for Wood Doors & Aluminum Frames

- 90A - Hold Open
- 105A - Hold Open
- N - Non-Hold Open

1/2" Extended Spindle

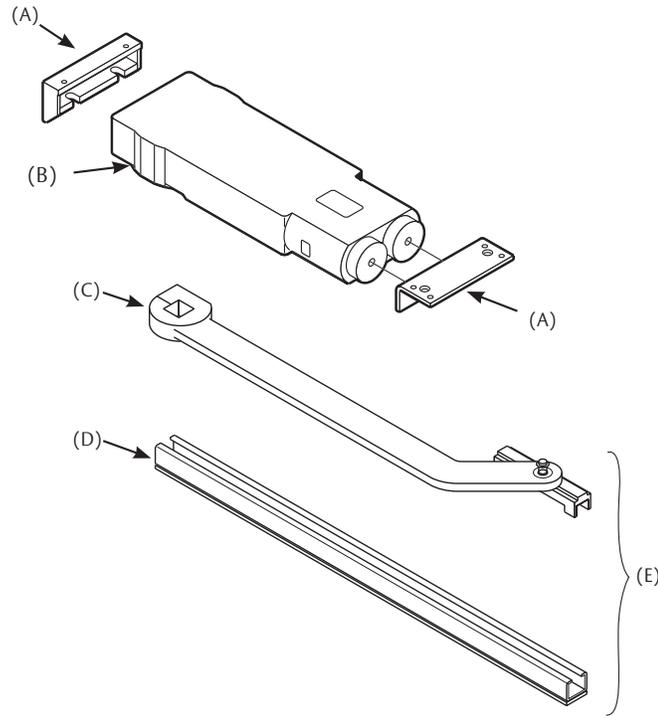
All Arms Are

- 689 Sprayed Alum
- 690 Sprayed Dk Brz
- 691 Sprayed Lt Brz
- 693 Sprayed Black
- 696 Sprayed Brass

Cover Plates

- 605 Bright Brass
- 606 Satin Brass
- 611 Bright Bronze
- 612 Satin Bronze
- 613 Dark Bronze
- 619 Satin Nickel
- 622 Flat Black
- 625 Bright Chrome
- 626 Satin Chrome
- BSP Black Suede Powder



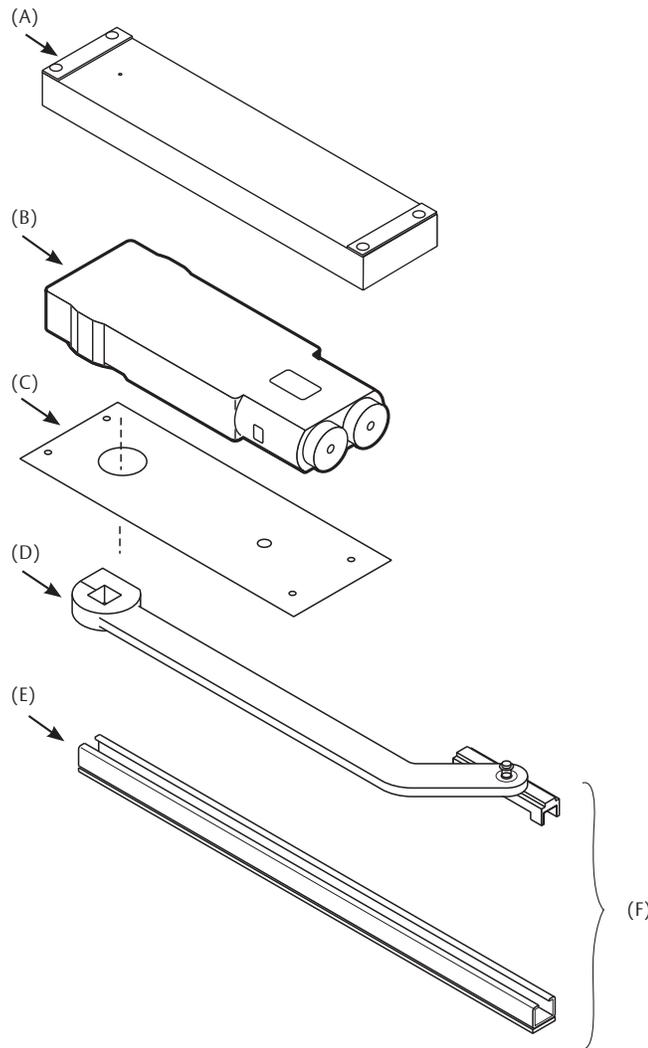


**Specify finish*

SCREW KITS

Screw Kit 608064

- (A) Closer Mounting Kit 608019
- (B) Closer Body (Specify Complete Model No. x LAP)
- (C) Arm Assembly (sprayed finishes only) 0608312-*
- (D) Rail 0608109
- (E) Arm & Rail Package (sprayed finishes only) 06082012-*



**Specify finish*

SCREW KITS

Cover Plate Screw Kit 107022-*

Screw Kit 608064

- (A) Closer Mounting Kit 608049PKG
- (B) Closer Body (Specify Complete Model No. x LAP)
- (C) Cover Plate 6084000-*
- (D) Arm Assembly (sprayed finishes only) 0608312-*
- (E) Rail 0608109
- (F) Arm & Rail Package (sprayed finishes only) 06082012-*

Application

- Exterior or interior doors
- Door weight up to 200 lbs.
- Maximum door size: interior 3'8" x 8', exterior 3'6" x 8'

Features

- Single or double acting
- Non-handed
- Available in non-hold open (N) (door swings to 130° each direction)
- Available in automatic hold open (both directions). Specify 90° or 105° (A)
- Adjustable closing and latch speeds
- Includes 608011 bottom pivot
- Frame stop is required. See Door Control Accessories Catalog (part number 60131). Order separately.
- Product should always be used with auxiliary floor or wall stop
- 2 year limited warranty

Optional Features

- Extended spindle; 1/2" longer than standard closer spindle. Must be ordered as part of the closer; cannot be added later
- 199 end caps for top and bottom of wood door

Compliance

- ANSI CO5052/CO5062
- Compliant to ANSI A156.4 standards

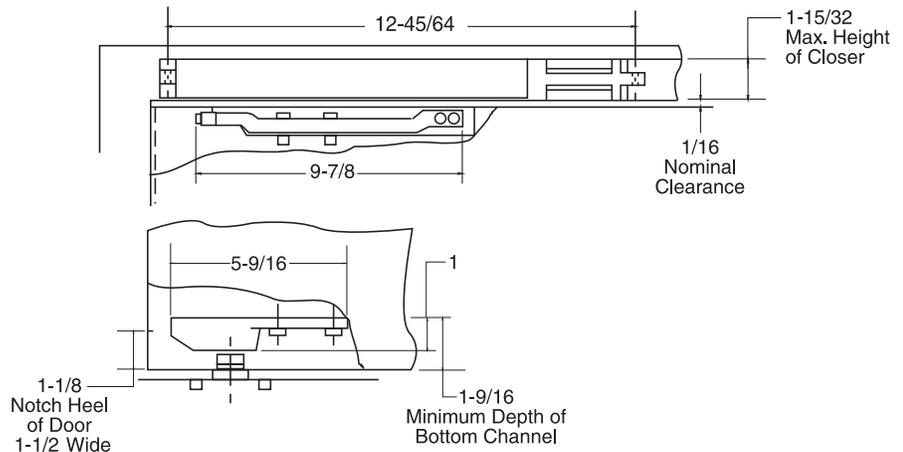
Models

- 608EL closers should be used on aluminum doors and frames. Package includes closer body, arm, frame mounting clips, and bottom pivot 608011. This can be used in an aluminum frame that is 1-3/4" x 4".
- 608SL closers should be used on aluminum door and frames with an arm that attaches to the spindle thru the face of the door. Package includes body arm, frame, mounting clips and bottom pivot 608011. This can be used on a frame that is 1-3/4" x 4".
- M608 closers should be used on metal doors and frames. Package includes closer body, arm, frame mounting box 608049PKG*, cover plate and bottom pivot 608011. Frame size 2" x 5-1/2" minimum.
- MW608 closer should be used on wood doors and metal frames. Package includes closer body, arm, frame mounting box 608049PKG*, cover plate and bottom pivot 608011. Frame size 2" x 5-1/2" minimum.
- W608 closer should be used on wood doors and frames. Package includes closer body, arm, frame, mounting box 608049PKG, cover plate and bottom pivot 608011. Frame size 2" x 5-1/2" minimum.
- AW608 closer should be used on wood doors and aluminum frames. Package includes closer body, arm, frame mounting clips, and bottom pivot 608011. Frame size 1-3/4" x 4".



End load arm shown

TECHNICAL INFO



*Note that mounting channels must be welded into frames prior to shipment to job site.

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HOW TO ORDER

M608
Model

- 608EL - End Load Arm Closer for Aluminum Doors and Frames
- 608SL - Side Load Arm Closer for Aluminum Doors and Frames
- M608 - Closer for Metal Doors and Frames
- MW608 - Closer for Wood Doors and Metal Frames
- W608 - Closer for Wood Doors and Frames
- AW608 - Closer for Wood Doors & Aluminum Frames

End load is standard; will be supplied if arm isn't specified.

90A
Hold Open

- 90A - Hold Open
- 105A - Hold Open
- N - Non-Hold Open

x 1/2" Ext Spdl
Suffix

1/2" Extended Spindle

x 626
Finish

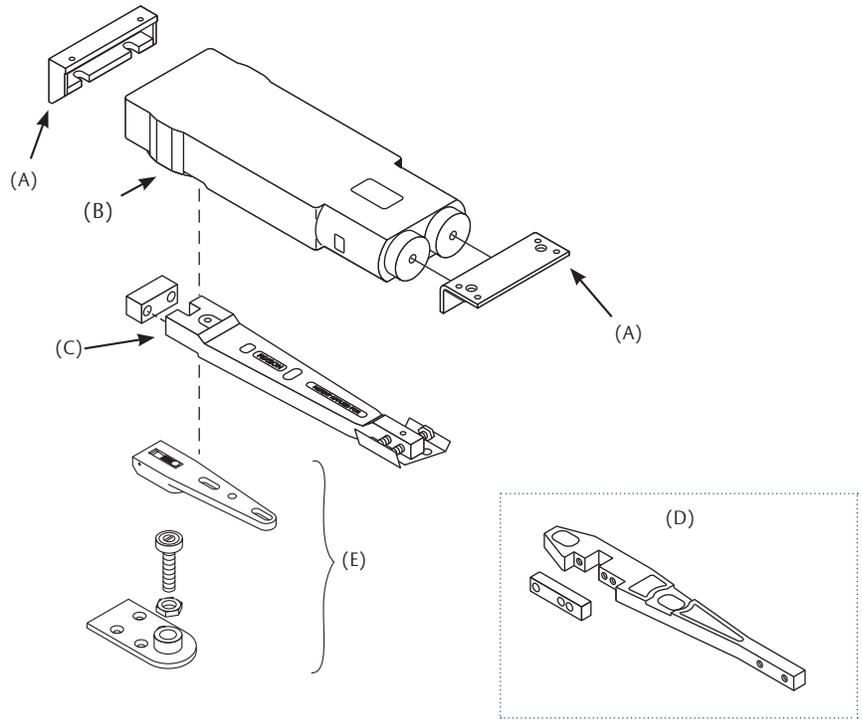
All Arms Are

- 689 Sprayed Alum
- 690 Sprayed Dk Brz
- 691 Sprayed Lt Brz
- 693 Sprayed Black
- 696 Sprayed Brass

Cover Plates

- 605 Bright Brass
- 606 Satin Brass
- 611 Bright Bronze
- 612 Satin Bronze
- 613 Dark Bronze
- 619 Satin Nickel
- 622 Flat Black
- 625 Bright Chrome
- 626 Satin Chrome
- BSP Black Suede Powder





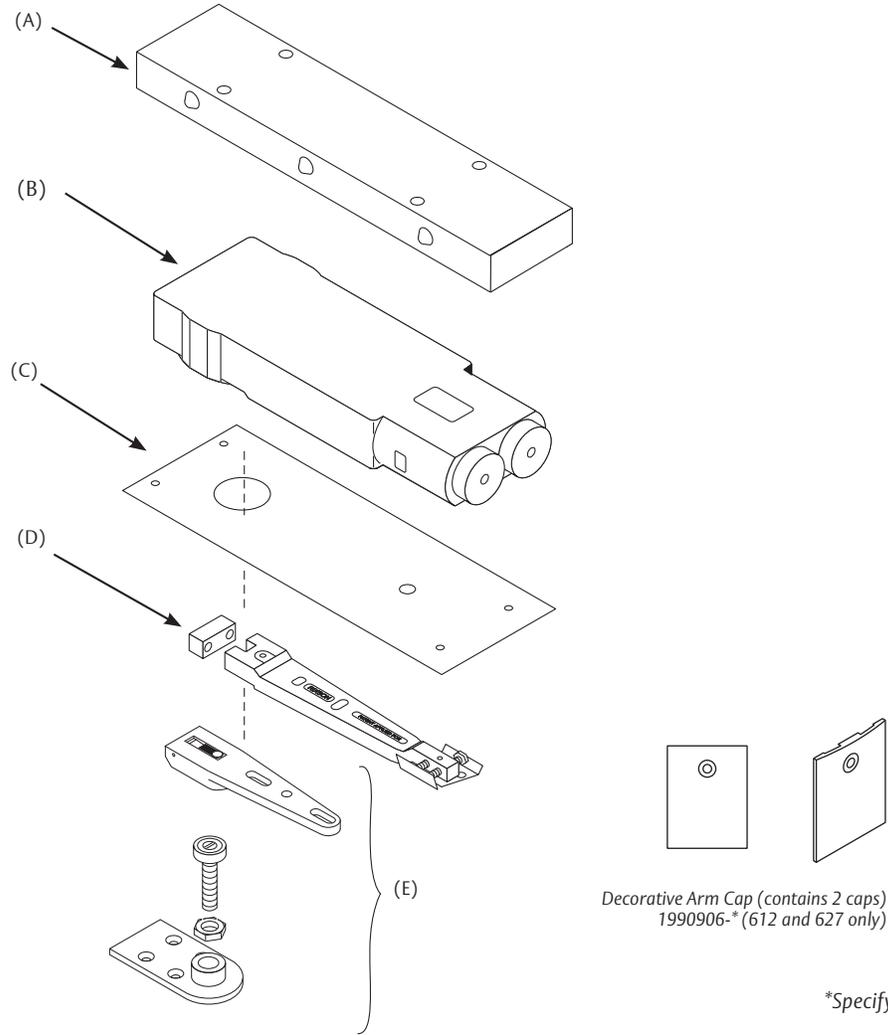
**Specify finish*

SCREW KITS

Arm Screw Kit 107065 (Includes arm end block)

Bottom Pivot Screw Kit 107143

- (A) Closer Mounting Kit 608019
- (B) Closer Body (Specify Complete Model No. x LAP)
- (C) End Load Arm Pkg 6002020
- (D) Side Load Arm 608005S
- (E) Bottom Pivot with Screws 608011A



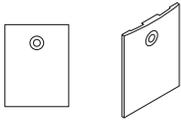
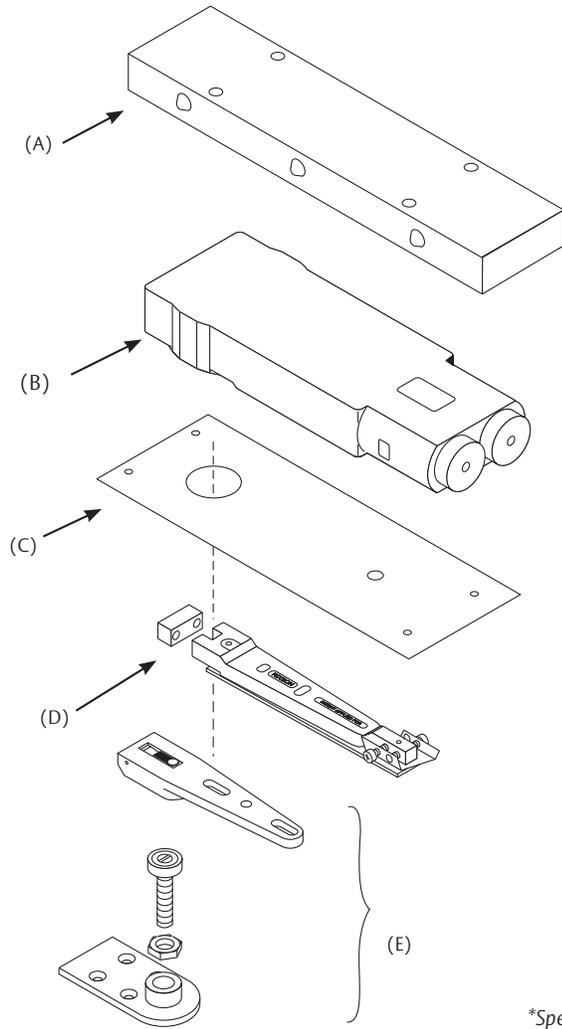
SCREW KITS

- Arm Screw Kit 107065 (Includes arm end block)
- Cover Plate Screw Kit 107022-*
- Bottom Pivot Screw Kit 107143

- (A) Closer Mounting Kit 608049PKG
- (B) Closer Body (Specify Complete Model No. x LAP)
- (C) Cover Plate 6084000 - *
- (D) Arm Package 6002020
- (E) Bottom Pivot 608011A



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Decorative Arm Cap (contains 2 caps)
1990906-* (612 and 627 only)

*Specify finish

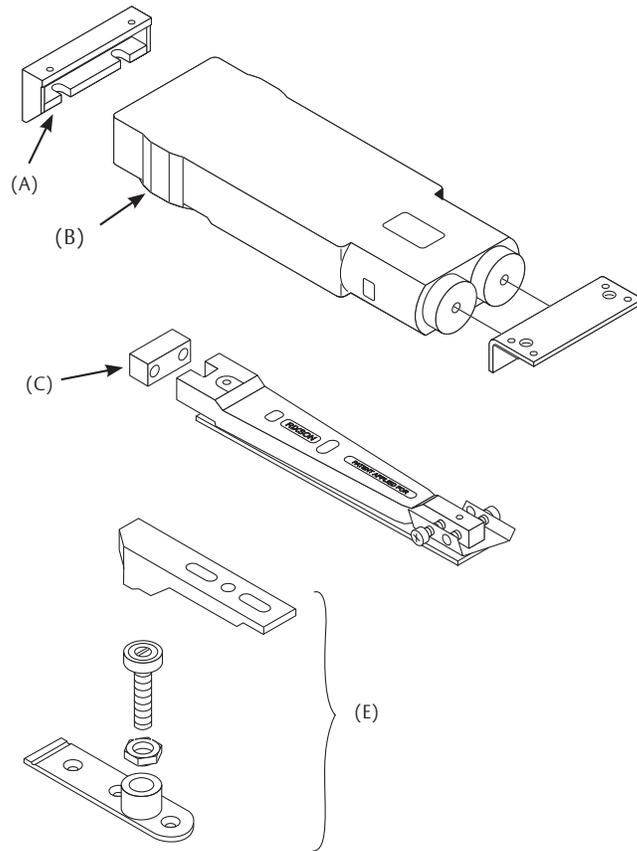
SCREW KITS

Bottom Pivot Screw Kit 107143

Arm Screw Kit 107065 (Includes arm end block)

Cover Plate Screw Kit 107022-*

- (A) Closer Mounting Kit 608049PKG
- (B) Closer Body (Specify Complete Model No. x LAP)
- (C) Cover Plate 6084000 - *
- (D) Arm Package 6002021
- (E) Bottom Pivot with Screws 608011A



**Specify finish*

SCREW KITS

Arm Screw Kit 107065 (Includes arm end block)

Bottom Pivot Screw Kit 107143

- (A) Closer Mounting Kit 608019
- (B) Closer Body (Specify Complete Model No. x LAP)
- (C) End Load Arm Pkg 6002021
- (E) Bottom Pivot with Screws 608011A



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ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

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For a complete listing of products and applications please visit our web site.
www.rixson.com
www.assaabloy.ca

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PIVOTS AND PIVOT SETS

Architectural Solutions for Durable
and Efficient Hanging of Doors

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TABLE OF CONTENTS

General Information4
 How to Select Product 4-5
 Options6
 Certifications.....6
 Limited Warranty.....6
 Specifications.....6

PRODUCT DESCRIPTIONS

Offset Pivot Sets

173 Very Light Duty/Weight Pivot Set7
 117-1/4 Light-Duty/Light Weight Jamb Attached Pivot Set.....8
 117 Light-Duty/Light Weight Pivot Set9
 165 Pivot Set Without Bottom Pivot10
 195 Jamb Attached Pivot Set11
 547 Pivot Set for Arch Top or Overhead Concealed Closers12
 147 Standard-Duty Pivot Set13
 117-1/2 Heavy Weight Pivot Set14
 L147 Heavy Weight Pivot Set15
 L117 Heavy Weight/High Traffic/Lead Lined Door Pivot Set16

Offset Top Pivots

180 Standard Top Pivot17
 180 x 102 Top Pivot for Deep Reveal17
 H180 Heavy-Duty Top Pivot17
 280 Half Surface Top Pivot18
 380 Half Mortise Top Pivot18
 L380 Half Mortise Heavy Weight/High Traffic/Lead Lined Door Pivot18
 480 Full Surface Top Pivot19
 680 Side Jamb Attached Top Pivot19
 L180 Heavy Weight/High Traffic/Lead Lined Door Top Pivot20
 FA180 Asylum Top Pivot20

Intermediate Pivots

119 Light-Duty Pivot21
 219 Half Surface Pivot21
 319 Half Mortise Pivot22
 L319 Half Mortise Heavy Weight/High Traffic Pivot22
 419 Full Surface Pivot22
 FA19 Behavior Health Intermediate Pivot23
 M19 Standard-Duty Pivot23
 M190 Load-Bearing Pivot24
 ML19 Heavy Weight/High Traffic Pivot24



TABLE OF CONTENTS, CONTINUED

Electrified Intermediate Pivots

E-M19	Power Transfer Pivot.....	25
E-M19U	Power Transfer High Inrush Pivot.....	25
E-ML19	Power Transfer Heavy Weight/High Traffic Pivot.....	26

Pocket Pivots

F519	Pocket Pivot.....	27
------	-------------------	----

Electrified Pocket Pivot

E-F519	Power Transfer Pocket Pivot.....	27
--------	----------------------------------	----

Center Hung Pivot Sets

176	Very Light Duty/Weight Pivot Set.....	28
178	Pivot Set With Patch Fittings.....	28
127-3/4	Light-Duty/Light Weight Jamb Attached Pivot Set.....	29
128-3/4	Light-Duty/Light Weight Pivot Set.....	29
370	Pivot Set.....	30
117-3/4	Heavy Weight Pivot Set.....	31
H117-3/4	Heavy Weight/High Traffic 2" Minimum Door Thickness.....	32
H117-3/4 x 587	Heavy Weight/High Traffic 1-3/4" Door Thickness.....	32

Center Hung Top Pivots

320	Light Weight/Light-Duty Top Pivot.....	33
340	Top Pivot.....	33
320 x 102	Light-Duty Inverted Top Pivot.....	33
340 x 102	Inverted Top Pivot.....	33
340 x AP3	Side Jamb Attached Top Pivot.....	34
H340	Heavy-Duty Top Pivot.....	34
345	Longer Throw Pin for Taller Doors Top Pivot.....	35
H345	Longer Throw Pin Heavy Weight/High Traffic for Taller Doors Top Pivot.....	35

Electrified Center Hung Top Pivots

E-H340	Power Transfer Pivot.....	36
E-H345	Power Transfer Longer Throw Pivot.....	36

Parts Drawings.....	37-50
---------------------	-------

How to Order.....	51
-------------------	----

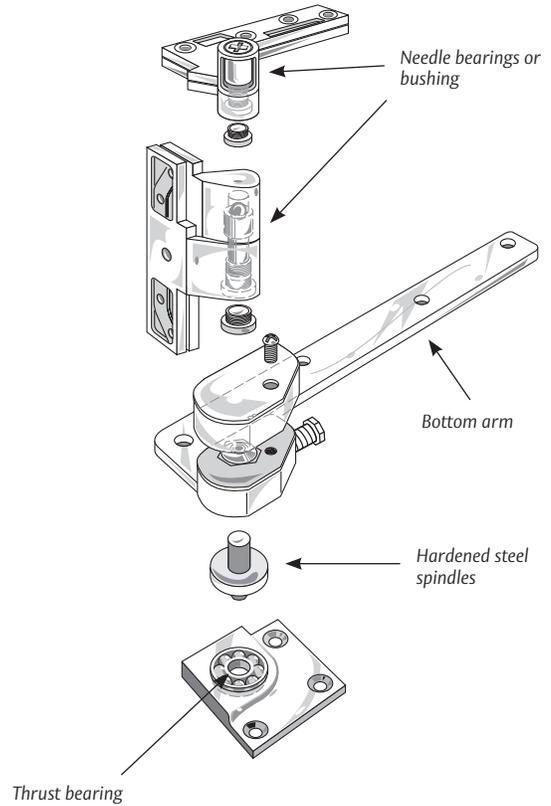
Product Comparison Charts.....	52-54
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GENERAL INFORMATION, HOW TO SELECT PRODUCT

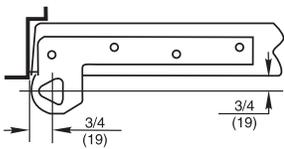
Pivot sets provide the best possible means of hanging a door. They are designed to work with the laws of physics to provide long-lasting performance and reliability.

- The weight of the door is supported at the bottom by the floor
 - Uses principles of gravity to its advantage
 - Door swings with less resistance
 - Heavier doors can be accommodated
- Reduced stress on frame
 - Fasteners are in shear, not tension
 - Eliminates door sag
 - Vertically adjustable
- Heavy-duty hardened steel spindles
 - Thrust bearing supports vertical load
 - Needle bearings and bushings for lateral force
 - Extra heavy-duty models also have an additional surface applied thrust bearing to handle heavier or high-traffic doors
- Offset pivots provide better weight distribution and can accommodate taller doors
- Intermediate pivots are used for alignment and to ensure proper installation of bottom pivot or floor closer
- Center hung pivots are used for aesthetics or if the pivot point is going to be moved nearer the lock edge of the door
- **PIVOTS DO NOT RETURN DOORS TO CENTER.** Pivots in this section are for door hanging means only. For door control see door closer catalog sections.



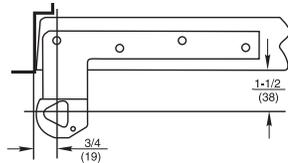
147 Pivot set and M19 Intermediate pivot shown (recommended)

1. OFFSET VS. CENTER HUNG APPLICATION



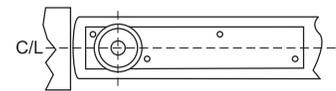
3/4" Offset

Pivot point located 3/4" from the heel edge of the door and 3/4" from face of door.



1-1/2" Offset

Pivot point located 3/4" from the heel edge of the door and 1-1/2" from face of door. Extended offsets should be used when there is cladding on the face of door or trim on the frame.



Center Hung

Pivot point centered in thickness of door.



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2. SIZE OF DOOR (WIDTH, HEIGHT, THICKNESS)

Estimated door weights pounds per square foot (PSF)	DOOR THICKNESS		
	1-3/4"	2-1/4"	3"
Door Material	1-3/4"	2-1/4"	3"
Hollow Metal	6.5	7	—
Solid Core Wood	7	9	11.5
Aluminum/Glass Storefront	3.5	4	—
Bullet Resistant	20	21	—
MDF	7	9	11.5
Tempered Glass	GLASS THICKNESS		
	3/8"	1/2"	3/4"
Lead Lining (add to door weight)	LEAD THICKNESS		
	1/16"	1/8"	1/4"
3/4" Cladding (add to door weight)	CLADDING MATERIAL		
	Wood	Stone	Bronze
	3	10.5	28

Example: 3/6 X 8/0 X 1/2" Tempered Glass Door
Door: 28sq ft x 7lb./sq ft = 196lbs.
For doors of other sizes, consult factory

Example: 3/0 X 7/0 X 1-3/4" WD X 1/4" Lead lining
Door: 21sq ft x 7lb./sq ft = 147lbs.
Lead Lining: 9.75 = 204.75lbs.
Total Door weight: 351.75lbs.

3. CYCLES

APPLICATION	DAILY CYCLES	YEARLY CYCLES	
Large department store entrance	5,000	1,500,000	High
Large office building entrance	4,000	1,200,000	
Theater entrance	1,000	365,000	
School entrance	1,250	225,000	
School restroom door	1,250	225,000	
Store or bank entrance	500	150,000	
Office building restroom door	400	118,000	
School corridor door	80	15,000	Average
Office building corridor door	75	22,000	
Store restroom door	60	18,000	
Residential entrance door	40	15,000	
Residential restroom door	25	9,000	Low
Residential hallway door	10	3,600	
Residential closet door	6	2,200	



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OPTIONS, CERTIFICATIONS, WARRANTY, SPECIFICATIONS

Door Thickness – Suffix 1-3/4", 2", 2-1/4", 2-1/2" or 3"

When ordering L series pivot for lead-lined doors, the thickness of the door must be given. The purpose of the L product is to have screws spaced so they straddle the lead in the center of the door. Also used when lead lining is under the skins of the door. Recommended for use on extra heavy or high traffic doors.

ElectroLynx® Connectors – Suffix QC – Number of Wires

The plug-in connectors, with easy color coded wire system, eliminate matching wires. Must be used with ASSA ABLOY doors, frames and hardware. Available 4, 6, 8 or 12 wires for most products.

Extended Spindle – Suffix extra length needed

Any special coverings or severe door undercuts will affect the spindle height. In these applications, an extended spindle may be required. Most standard spindle heights accommodate door undercuts up to 1/2". Extended spindles available in 1/2" increments up to 2" longer than standard. See template.

Fire Rated – Prefix F 

Pivots for fire rated doors (up to 3 hours) include a steel top pivot and must have additional steel intermediate pivots. For F519 pocket pivot, door assemblies must have been tested with pocket pivots.

Handing

All offset pivots and pivot sets are handed. Suffix RH or LH.

CERTIFICATIONS



All Rixson® pivots and pivot sets are in compliance with ANSI/BHMA A156.4 Standards. See individual products for sub sections.

LIMITED WARRANTY

Rixson pivot sets are warranted for 2 years for defect. See Rixson Price Book for specific details of the limited warranty.

SPECIFICATIONS

All pivots and pivot sets shall be of one manufacturer. All heavy-duty pivots shall have a minimum of 2 bearings internal to the bottom pivot. One shall be a thrust bearing and the other a needle bearing. Separate bearing surfaces shall be in the top pivot. Lead-lined door units and high traffic pivots shall have additional thrust bearing. Fire rated pivot sets shall have steel top pivots. Fire rated doors require steel intermediate pivots.

Less Top Pivot – Suffix LTP

For conditions requiring special top pivots or for arch top doors, the pivot set should be ordered less top pivot – LTP. For offset installations, an additional load bearing intermediate (side jamb) M190 pivot is required. All intermediate pivots for that opening should be M190's, not M19's.

1-1/2" Offset – Suffix 1-1/2

Offset is the distance from the face of the door to the pivot point. Extended offsets should not be used unless there is cladding on the face of the door or there is trim to clear on the frame. 1-1/2" offset arms and pivots are for doors with cladding or trim that project 3/4" from the face of the door. The greater the offset the less weight can be carried by the pivot.

Special Layouts – Suffix SPLO#

Unique installations or specially engineered products are called special layouts. These numbers must be assigned by the technical support department and they must be called out specifically by their number when ordering.

Twenty-minute label – Suffix - 20 

This UL rating is for 20-minute assemblies. Product with this rating has an authorized label.

Model 173

Application

- Interior Doors
- Weight 150 lbs.
- Door Sizes up to 3'0" x 8'0" x 1-3/4" (914x2438x44mm)
- Handed

Product Description & Features

- 180 top pivot included
- 119 intermediate pivot recommended for all doors over 6'8" (2032mm) (order separately)
- 3/4" (19mm) offset only (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Bottom pivot mounts directly to concrete floor
- 3/8" (10mm) vertical adjustment
- No spindle extensions available
- Door will swing 180°, trim permitting
- Uses same arm and cap as 117 pivot set
- Non-ferrous base metal
- Furnished with wood and metal screws

Optional Features

- Available for 1-1/2" (38mm) offset (door weight 100 lbs.) for doors with cladding or frame molding

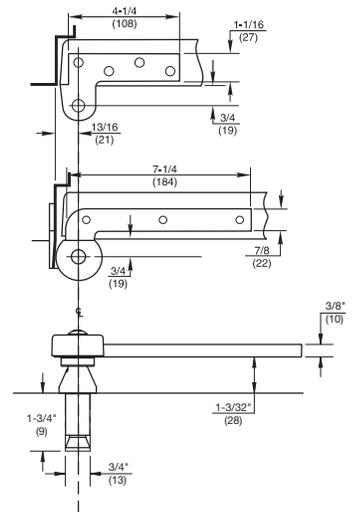
Compliance

- ANSI/C07162/C07202



Technical Information

(Frame stop required)



Application

- Interior Doors
- Weight to 250 lbs.*
- Door Width up to 3'6" (1067mm)
- Handed

Product Description & Features

- 180 top pivot included
- 119 intermediate pivot recommended (order separately)
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Bottom pivot mortised into side jamb
- Weight of door borne by floor
- Not available for fire-rated doors
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws

Optional Features

- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Compliance

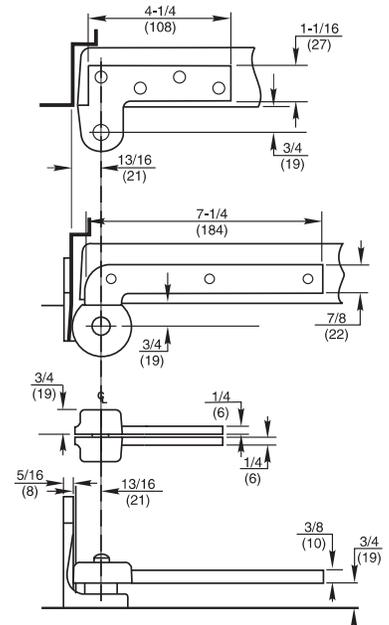
- ANSI/C07172

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots



Technical Information

(Frame stop required)



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Application

- Interior Doors
- Weight to 300 lbs.*
- Door Width up to 3'6" (1067mm)
- Handed

Product Description & Features

- 180 top pivot included
- 119 intermediate pivot recommended (order separately)
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2
- Bottom pivot mortised into floor
- Non-ferrous base material
- Doors will swing 180°, trim permitting
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws

Optional Features

- Available for 1-1/2" (38mm) offset (door weight 150 lbs.) for doors with cladding or frame molding
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Compliance

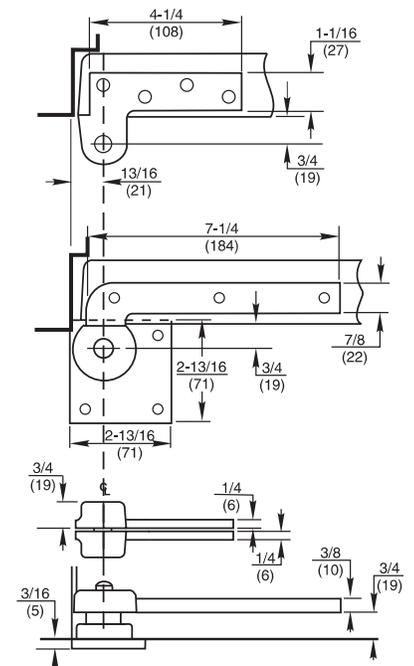
- Available for fire door assemblies up to three hours – specify F117. Intermediate pivot required by UL. Specify FM19 (order separately).
- For 20-minute label suffix "-20" to the part number
- ANSI/C07162/C07202

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots



Technical Information

(Frame stop required)



Application

- Exterior or Interior Doors
- For Doors Without Bottom Pivots
- Weight to 300 lbs.*
- Door Width up to 3'6" (1067mm)
- Handed

Product Description & Features

- Set consists of one H180 top pivot and two each M190 intermediate pivots
- Not available for fire door assemblies
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Doors will swing 180°, trim permitting
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height have two intermediate pivots. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws

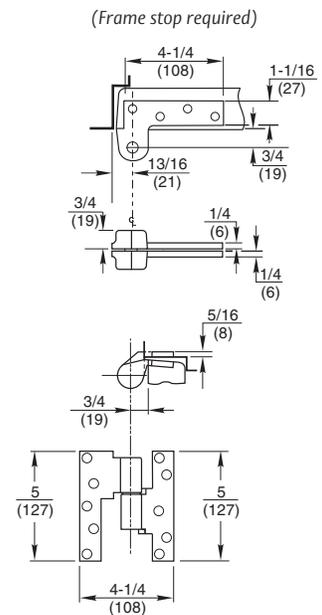
Compliance

- ANSI/C07162 (modified)

*Door size & weight guidelines are determined using the appropriate number of intermediate pivots



Technical Information



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Application

- Exterior or Interior Doors
- Weight to 450 lbs.*
- Door Width up to 4'0" (1219mm)
- Handed

Product Description & Features

- 180 top pivot included
- 119 or M19 intermediate pivots are recommended (order separately)
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Bottom pivot mortised into side jamb
- Pivot set can be vertically adjusted up to 3/16" (5mm) after installation without the use of shims
- Weight of door is borne by floor portion
- Doors will swing 180°, trim permitting
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws

Optional Features

- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Compliance

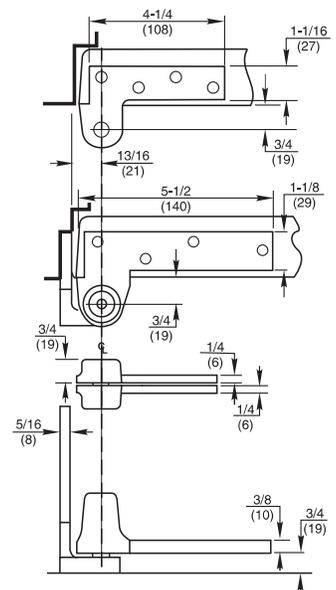
- Available for fire door assemblies up to three hours. Specify F195. Intermediate pivot required by UL. Specify FM19 (order separately)
- ANSI/C07172

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots



Technical Information

(Frame stop required)



Application

- Exterior or Interior Doors
- For Arch Top Doors or Overhead Concealed Closers
- Weight to 500 lbs.
- Door Width up to 3'6" (1067mm)
- Handed

Product Description & Features

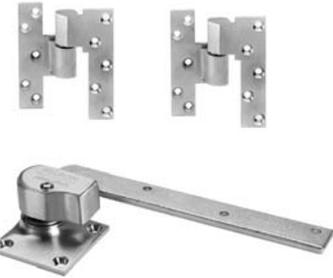
- Set consists of two each M190 intermediate pivots and bottom pivot
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Bottom pivot mounts directly to floor
- Doors will swing 180°, trim permitting
- Non-ferrous base material
- Doors 60" (1524) to 90" (2286mm) in height have two intermediate pivots. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws

Optional Features

- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

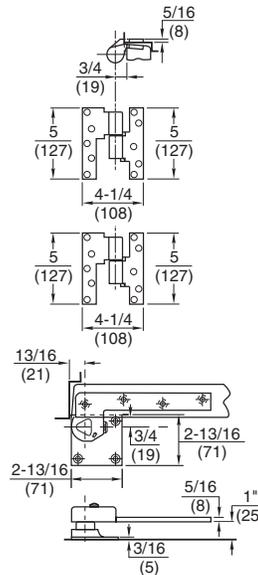
Compliance

- Available for fire door assemblies up to three hours. Specify F547. Intermediate pivots (FM190) included
- For 20-minute label suffix "-20" to the part number
- ANSI/C07162 (modified)/C07202



Technical Information

(Frame stop required)



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Application

- Exterior or Interior Doors
- Weight to 650 lbs.*
- Door Width up to 4'0" (1219mm)
- Handed

Product Description & Features

- 180 top pivot included
- M19 intermediate pivot required (order separately)
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Bottom pivot mortised into floor
- Doors will swing 180°, trim permitting
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws

Optional Features

- Available for 1-1/2" (38mm) offset (door weight 350 lbs.) for doors with cladding or frame molding
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Compliance

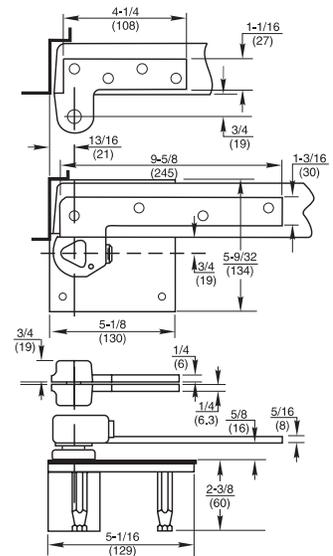
- Available for fire door assemblies up to three hours (ferrous material) – specify F117-1/2
- Intermediate pivot required by UL. Specify FM19 (order separately)
- For 20-minute label suffix "-20" to the part number
- ANSI C07121/C07202

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots



Technical Information

(Frame stop required)



ASSA ABLOY, the global leader in door opening solutions

Application

- Exterior or Interior Doors
- Lead-Lined, Heavy, High Traffic Doors
- Weight to 800 lbs.
- Door Width up to 4'0" (1219mm)
- Handed

Product Description & Features

- L180 top pivot included
- ML19 intermediate pivot required (order separately)
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Bottom pivot mounts directly to floor
- Doors with lead lining under the skin should also use this product.
- Screw holes in top pivot and bottom arm spaced to straddle lead lining in the middle of the door
- Doors will swing 180°, trim permitting
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Available to accommodate lead in door thicknesses 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) – specify when ordering
- Furnished with wood and machine screws

Optional Features

- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

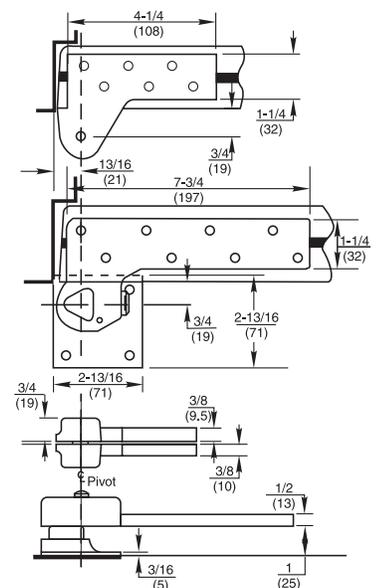
Compliance

- Available for fire door assemblies up to three hours for 1-3/4" (44mm) doors only (ferrous material) – specify FL147. Intermediate pivot required by UL. Specify FML19 (order separately)
- For 20-minute label suffix "-20" to the part number
- ANSI/C07162/C07202



Technical Information

(Frame stop required)



1-3/4" door shown

Application

- Exterior or Interior Doors
- Lead-Lined, Heavy, High Traffic Doors
- Weight to 1,750 lbs.*
- Door Width up to 4'0" (1219mm)
- Handed

Product Description & Features

- 180 top pivot included
- ML19 intermediate pivot required (order separately)
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled in 1/8" in 2"
- Bottom pivot mortised into floor
- Available to accommodate lead in door thicknesses 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) – specify when ordering
- Additional thrust bearing for greater load capacity
- Doors will swing 180°, trim permitting
- Non-ferrous base material for top pivot
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws

Optional Features

- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Compliance

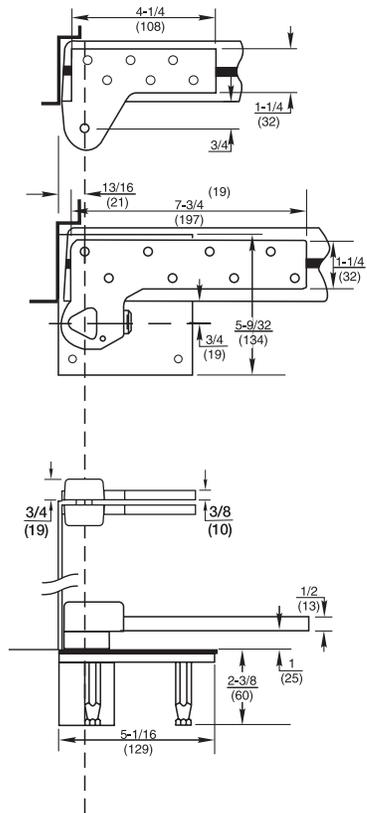
- Available for fire door assemblies up to three hours (ferrous material). Specify FL117. Intermediate pivot required by UL. Specify FML19 (order separately). Note: UL listing for 1-3/4" thick doors only
- For 20-minute label suffix "-20" to the part number
- ANSI/C07111

* Door size & weight guidelines are determined using the appropriate number of intermediate pivots



Technical Information

(Frame stop required)



Pivot for 1-3/4" door shown



ASSA ABLOY, the global leader in door opening solutions

Model 180

Application

- Full Mortise
- Non-handed

Product Description & Features

- Standard top pivot for most offset pivot sets and floor closers
- Oil-impregnated sintered bronze bushing
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Non-ferrous base material
- Furnished with wood and machine screws

Optional Features

- Available for 1-1/2" (38mm) offset
- For extra wide or high traffic prefix "H" – H pivots have heavy-duty needle bearings; available in 1-1/2" (38mm) offset
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

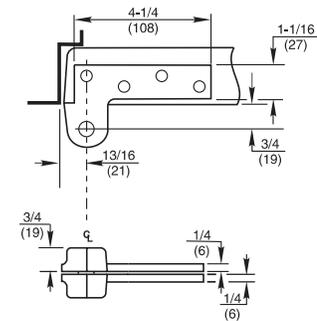
Compliance

- Available for fire door assemblies (ferrous material) – specify F180 or FH180
- For 20-minute label suffix "-20" to the part number



Technical Information

(Frame stop required)



Model 180 X 102

Application

- Full Mortise
- Handed

Product Description & Features

- Special top pivot for doors in deep reveals or unusual door details where one leaf is too long for the normal door or frame portion
- Oil-impregnated sintered bronze bushings
- Non-ferrous base metal
- May be inverted
- Furnished with wood and machine screws

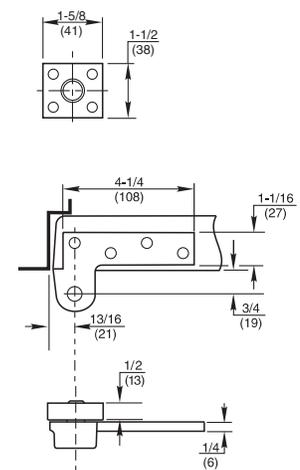
Optional Features

- Available for 1-1/2" (38mm) offset
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only



Technical Information

(Frame stop required)



RIXSON
ASSA ABLOY

ASSA ABLOY, the global leader
in door opening solutions

Application

- Half Surface
- Handed

Product Description & Features

- Flush door and frame application only
- Optional top pivot where door portion cannot be mortised
- 1-3/4" (44mm) door only
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Contact factory if door is not flush
- Non-ferrous base material
- Furnished with wood and machine screws

Optional Features

- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

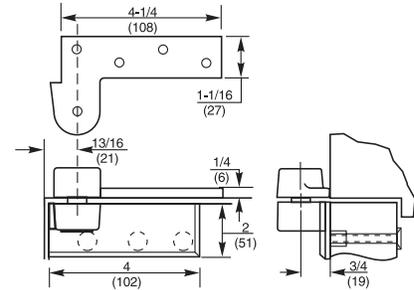
Compliance

- Available for fire door assemblies (ferrous material) – specify F280
- ANSI/C07501

Model 280



Technical Information



Model 380

Application

- Half Mortise
- Handed

Product Description & Features

- Flush door and frame application only
- Optional top pivot where jamb portion cannot be mortised
- Designed for channel iron door frames with aluminum, hollow metal or wood doors
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Non-ferrous base material
- Furnished with wood and machine screws

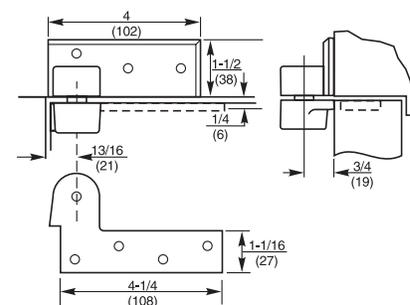
Optional Features

- Door portion from L180 pivot is available if lead-lined doors are used – specify L380 and door thickness
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Compliance

- Available for fire door assemblies (ferrous material) – specify F380
- ANSI/C07511

Technical Information



RIXSON
ASSA ABLOY

Model 480

Application

- Full Surface
- Handed

Product Description & Features

- Flush door and frame application only
- Optional top pivot where door and jamb portion cannot be mortised
- Designed for channel iron door frames and any door where thru-bolting is advantageous
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- 1-3/4" (44mm) door only
- Non-ferrous base material
- Furnished with wood and machine screws

Optional Features

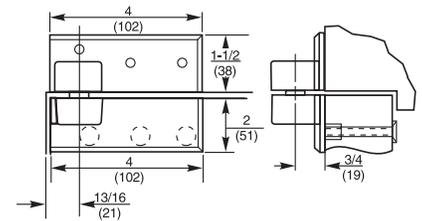
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Compliance

- Available for fire door assemblies (ferrous material) – specify F480
- ANSI/C07521



Technical Information



Model 680

Application

- Side Jamb Mounted
- Frame Portion
- Handed

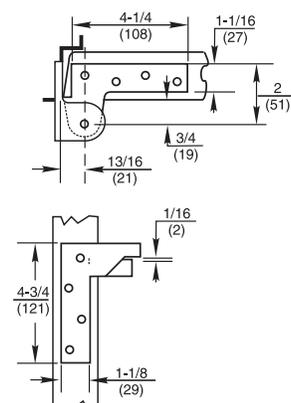
Product Description & Features

- Used where no frame exists above door, or where it is not possible to anchor pivot into header of frame
- Side jamb portion can be surface mounted or mortised
- Non-ferrous base material
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled in 1/8" in 2"
- Furnished with wood and machine screws
- Possible mountings:
 - Surface mount jamb; double mortise door
 - Mortise jamb, header and door
 - Mortise jamb and door



Technical Information

(Frame stop required)



RIXSON
ASSA ABLOY

Application

- Behavioral Health Design
- Full Mortise
- Handed

Product Description & Features

- Standard top pivot for SEC27-180 floor closer packages
- Optional top pivot for institutional use or installations where flat surfaces are objectionable
- Ferrous base material
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Furnished with wood and machine Torx® screws

Optional Features

- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Compliance

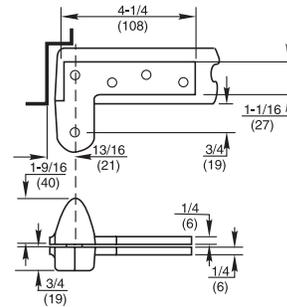
- For fire door assemblies

Model FA180



Technical Information

(Frame stop required)



Model L180

Application

- Lead-Lined, Heavy, High Traffic Doors
- Full Mortise
- Non-handed

Product Description & Features

- Standard top pivot for L147, L117 pivots and L27 floor closers
- Doors with lead lining under the skin should also use this product
- Screw holes spaced to straddle lead in the middle of the door
- Available to accommodate lead lined door thicknesses: 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) – specify when ordering
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Non-ferrous base material
- Furnished with wood and machine screws

Optional Features

- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

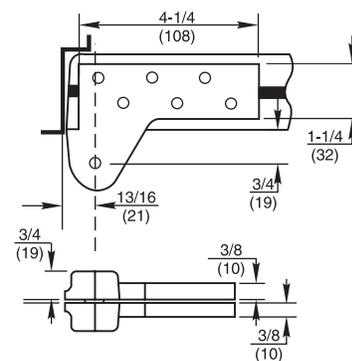
Compliance

- Available for fire door assemblies for 1-3/4" (19mm) doors only (ferrous material). Specify FL180
- For 20-minute label suffix "-20" to the part number



Technical Information

(Frame stop required)



1-3/4" door shown

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Model 119

Application

- Full Mortise
- Handed

Product Description & Features

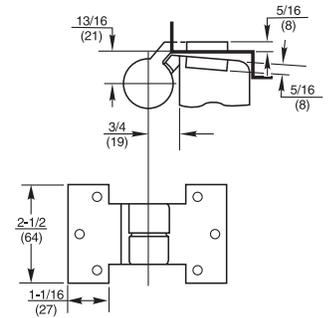
- Not load-bearing
- Maintains door alignment
- Available 3/4" (19mm) offset only
- Door edges must be beveled in 1/8" in 2"
- Used with 117, 117-1/4, 195 pivot sets and 127 and 427 floor closers
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws

Compliance

- ANSI/C07382



Technical Information



Model 219

Application

- Half Surface
- Handed

Product Description & Features

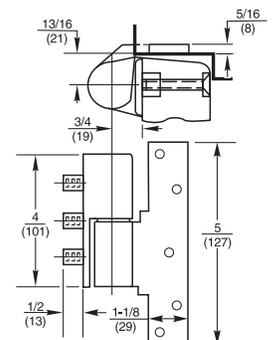
- Flush door and frame applications only
- Optional intermediate pivot where door portion cannot be mortised
- Maintains door alignment
- 3/4" (19mm) offset only
- 1-3/4" (44mm) door only
- Door edges must be beveled in 1/8" in 2"
- Non-ferrous base material
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Compliance

- ANSI/C07331



Technical Information



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Application

- Half Mortise
- Handed

Product Description & Features

- Flush door and frame applications only
- Optional intermediate pivot where jamb portion cannot be mortised
- Maintains door alignment
- 3/4" (19mm) offset only
- Door edges must be beveled in 1/8" in 2"
- Non-ferrous base material
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Optional Features

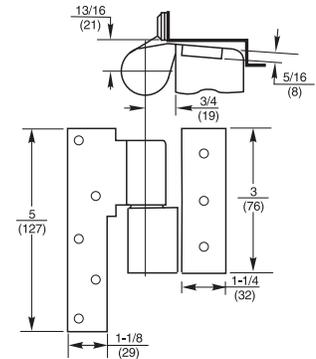
- Door portion from ML19 pivot is available if lead-lined door is used – specify L319 and door thickness

Compliance

- ANSI/C07341



Technical Information



Application

- Full Surface
- Handed

Product Description & Features

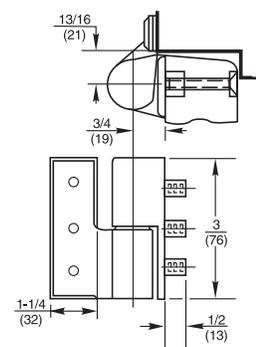
- Flush door and frame applications only
- Optional intermediate pivot where door and jamb portion cannot be mortised
- Maintains door alignment
- 3/4" (19mm) offset only
- Non-ferrous base material
- 1-3/4" (44mm) door only
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Compliance

- ANSI/C07351



Technical Information



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Model FA19

Application

- Full Mortise
- Behavioral Health or High Security Applications
- Handed

Product Description & Features

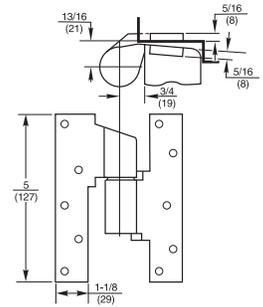
- Optional intermediate pivot for institutional use or installations where flat surfaces are objectionable
- Maintains door alignment
- Aids in installing bottom pivots
- 3/4" (19mm) offset
- Door edges must be beveled in 1/8" in 2"
- Ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine Torx® screws

Compliance

- May be used with fire door assemblies
- ANSI/C07361



Technical Information



Model M19

Application

- Full Mortise
- Handed

Product Description & Features

- Not load-bearing
- Maintains door alignment
- Aids in installing floor closers and bottom pivots
- 3/4" (19mm) offset
- Door edges must be beveled in 1/8" in 2"
- Non-ferrous base metal
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Optional Features

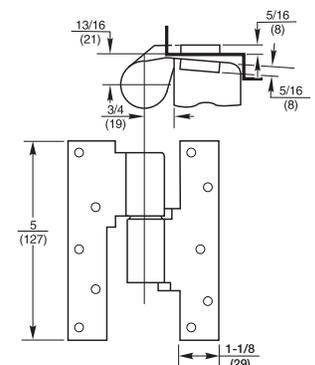
- Available for 1-1/2" (38mm) offset

Compliance

- Available for fire door assemblies (ferrous material) - specify FM19
- For 20-minute label suffix "-20" to the part number
- ANSI/C07321/C07371



Technical Information



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Application

- Heavy-Duty Full Mortise
- Handed

Product Description & Features

- Used when frame condition does not allow standard top pivot
- Lateral load-bearing
- Maintains door alignment
- Aids in installing floor closers and bottom pivots
- Heavy-duty needle bearing
- 3/4" (19mm) offset standard
- Door edges must be beveled in 1/8" in 2"
- Non-ferrous base metal
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Optional Features

- Available for 1-1/2" (38mm) offset

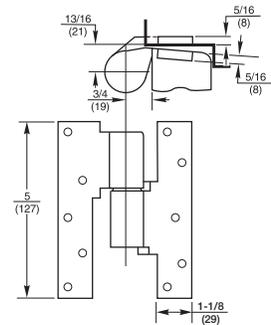
Compliance

- Available for fire door assemblies (ferrous material) – specify FM190
- For 20-minute label suffix "-20" to part number
- ANSI/C07321/C07371

Model M190



Technical Information



Application

- Full Mortise
- Lead-Lined, Heavy or High Traffic Doors
- Handed

Product Description & Features

- Load-bearing
- Screw holes spaced to straddle lead lining in center of door. Also use on extra heavy or high traffic door
- Maintains door alignment
- Aids in installing closers and pivots
- Door edges must be beveled in 1/8" in 2"
- Available to accommodate door thicknesses 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) – specify thickness when ordering
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

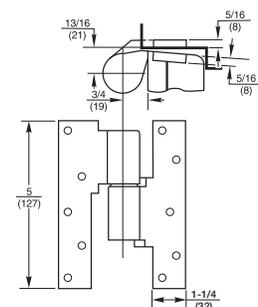
Compliance

- Available for fire door assemblies – 1-3/4" (44mm) door only – specify FML19
- For 20-minute label suffix "-20" to the part number
- ANSI/C07311

Model ML19



Technical Information



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Model E-M19

Application

- Offset Hung
- Electric Pivot for Power Transfer
- Handed

Product Description & Features

- Not load-bearing
- Door and jamb portion are factory assembled and cannot be separated
- Always use M19 intermediate pivot to install door
- Specify four, six, eight or twelve wires
- ElectroLynx® option available, suffix "QC#" (number of wires)
- 24-gauge wire is rated at 2 amps for low voltage, Class II wiring applications
- 3/4" (19mm) offset
- Door edges must be beveled in 1/8" in 2"
- Furnished with wood and machine screws

Optional Features

- Available 1-1/2" offset

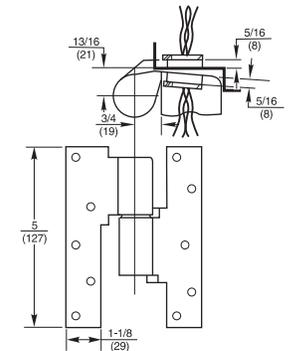
Compliance

- Available for fire door assemblies (ferrous material) – specify E-FM19
- For 20-minute label, suffix "-20" to the part number

Whenever power transfer pivots are used, the leaves must not be separated



Technical Information



Model E-M19U

Application

- Offset Hung
- Electric Pivot for Power Transfer
- Handed
- For Electrified Panic Devices with Large Inrush Current

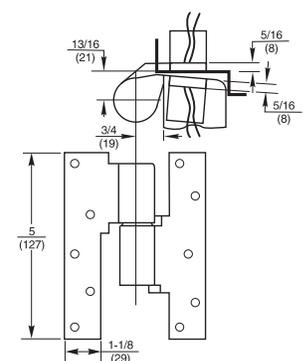
Product Description & Features

- Not load-bearing
- Door and jamb portion are factory assembled and cannot be separated
- Two each 18 gauge wires. Each wire is rated at 2 amps continuously. UL listed for 24-volt, Class I wiring
- ElectroLynx® option not available
- Junction boxes are supplied with pivots
- Not available in ferrous material
- 3/4" (19mm) offset
- Always use M19 intermediate pivot to install door
- Door edges must be beveled in 1/8" in 2"
- Furnished with wood and machine screws

Whenever power transfer pivots are used, the leaves must not be separated



Technical Information



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Application

- Offset Hung
- Lead Lined or Extra Heavy Doors
- Electric Pivot for Power Transfer
- Handed

Product Description & Features

- Not load-bearing
- Door and jamb portion are factory assembled and cannot be separated
- Specify four, six, eight or twelve wires
- ElectroLynx® option available, suffix "QC#" (number of wires)
- 24-gauge wire is rated at 2 amps for low voltage, Class II wiring applications
- 3/4" (19mm) offset
- Available 1-3/4" (44mm) doors only
- Always use ML19 intermediate pivot to install door
- Door edges must be beveled in 1/8" in 2"
- Furnished with wood and machine screws

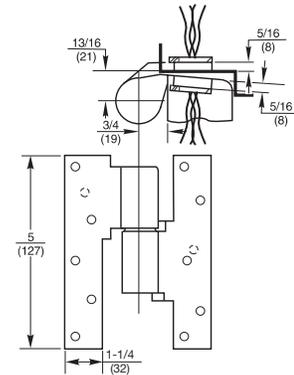
Compliance

- Available for fire door assemblies (ferrous base material) specify E-FML19
- For 20-minute label, suffix "-20" to the part number

Whenever power transfer pivots are used, the leaves must not be separated



Technical Information



RIXSON®
ASSA ABLOY

Application

- Pocket Door Pivot
- Non-handed

Product Description & Features

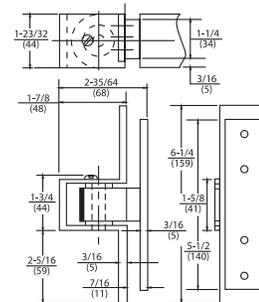
- Full mortise, non-handed pivot for pocket door applications
- Heavy-duty steel pivot with ball bearings
- Allows doors to swing 90°
- Minimum three pocket pivots per door
- Doors 60" (1524mm) to 90" (2286mm) in height require four pocket pivots. Every additional 30" (762mm) of door height warrants another pocket pivot
- Furnished with wood and machine screws

Compliance

- UL listed for all labeled pocket fire-door assemblies up to and including 3 hours
- Fire-rated door assemblies must have been tested with pocket pivots
- ANSI/C07611



Technical Information



Model E-F519

Application

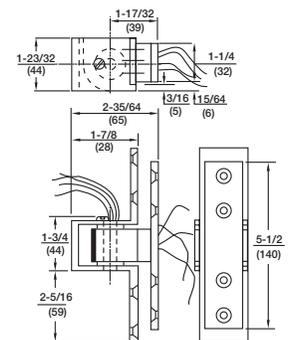
- Pocket Door Pivot
- Electric Pivot for Power Transfer
- Non-handed

Product Description & Features

- Full mortise, non-handed pivot for pocket door applications
- Door and jamb portions are factory assembled and cannot be separated
- Always use as middle pivot
- Available with four wires only
- ElectroLynx® option available, suffix "QC4"
- 24-gauge wire is rated at 2 amps for low voltage, Class II wiring applications
- Heavy-duty steel pivot with ball bearings
- Allows doors to swing 90°
- Minimum three pocket pivots per door
- Doors over 90" (2286mm) in height require four pocket pivots. Every additional 30" (762mm) of door height warrants another pocket pivot
- Furnished with wood and machine screws



Technical Information



Application

- Interior Doors
- Weight up to 150 lbs.
- Door Sizes up to 3'0" x 8'0" (914x2438mm)
- Door Thickness 1-3/8" to 1-3/4" (34-44mm)
- Non Handed

Product Description & Features

- 320 top pivot included
- Bottom pivot mounts directly into concrete floor
- Pivot point centered in thickness of the door
- Door must have radius on pivot edge
- Not allowed for use on labeled doors and frames
- 3/8" (10mm) vertical adjustment
- No spindle extensions available
- Furnished with wood and machine screws

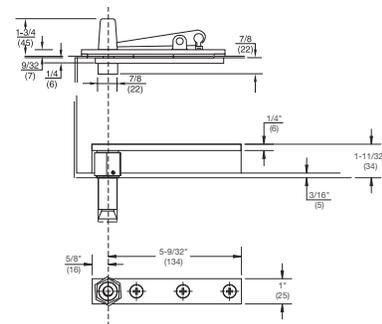
Compliance

- ANSI/C07032

Model 176



Technical Information



Model 178

Application

- Interior Doors
- Weight to 175 lbs.
- Door Sizes up to 3'0" x 8'0" (914 x 2438mm)
- Non Handed

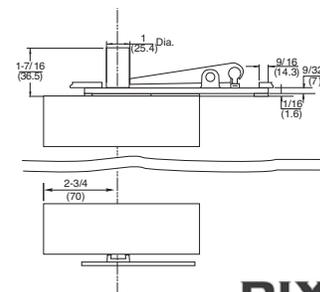
Product Description & Features

- Used on full glass doors
- Doors do not return to center
- Accommodates glass thicknesses 3/8"-1/2" (10-13mm)
- Includes special floor portion, top and bottom patch fittings and walking beam top pivot

Center hung pivots are door hanging means only. To close doors see closer sections of the catalogs.



Technical Information



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Model 127-3/4

PIVOTS AND PIVOT SETS
CENTER HUNG

Application

- Interior Doors
- Weight to 200 lbs.
- Door Sizes up to 3'6"x 8'6" (1067 x 2591mm)
- Non-handed

Product Description & Features

- 320 top pivot included
- Bottom pivot mortised into side jamb
- Weight of door borne by floor
- Pivot point centered in thickness of door
- Door must have radius on pivot edge
- Not allowed for use on labeled doors and frames
- Pivot point remains constant at 1-1/4" (32mm) from the edge of the door
- Furnished with wood and machine screws

Optional Features

- Available with extended spindles in 1/2" (13mm) increments up to 2" (51mm) longer than standard

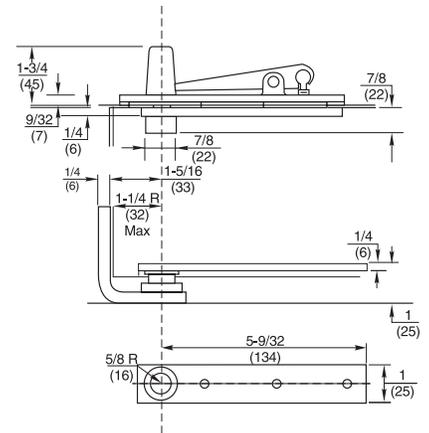
Compliance

- ANSI/C07042

Center hung pivots are door hanging means only. To close doors, see floor closer sections of the catalogs.



Technical Information



Model 128-3/4

Application

Identical to the 127-3/4 except

- Weight to 250 lbs.

Features

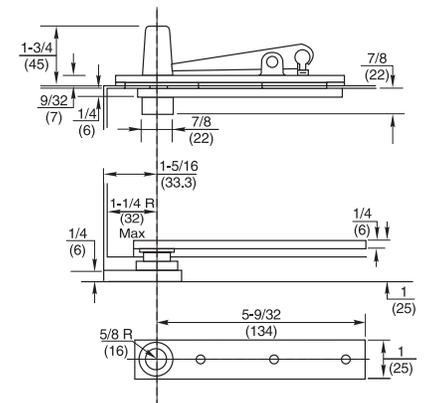
- Bottom pivot mounts directly to floor

Compliance

- ANSI/C07032



Technical Information



RIXSON
ASSA ABLOY

ASSA ABLOY, the global leader
in door opening solutions

Application

- Exterior or Interior Doors
- Weight to 500 lbs.
- Door Sizes up to 3'8"x 8'6"* (1118 x 2591mm)
- Non-handed

Product Description & Features

- 340 top pivot included
- Bottom pivot mounts directly to floor
- Pivot point centered in thickness of door
- Door must have radius on pivot edge
- Pivot set features sealed bearings for protection against weather and debris
- Not allowed for use on labeled doors and frames
- Furnished with wood and machine screws

Optional Features

- Available with extended spindles in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Compliance

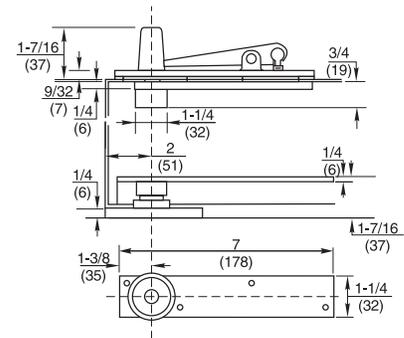
- ANSI/CO7032

Center hung pivots are door hanging means only. To close doors, see floor closer sections of the catalogs.

*For doors taller than 8'6" use top pivot 345 in lieu of 340



Technical Information



Application

- Exterior or Interior Doors
- Weight to 600 lbs.
- Door Sizes up to 4'0"x 8'6"* (1219 x 2591 mm)
- Non-handed

Product Description & Features

- 340 top pivot included
- Bottom pivot is mortised into floor
- Pivot point centered in thickness of door
- Door must have radius on pivot edge
- Heavy-duty bearings
- Pivot set features sealed bearings for protection against weather and debris
- Not allowed for use on labeled doors and frames
- Furnished with wood and machine screws

Optional Features

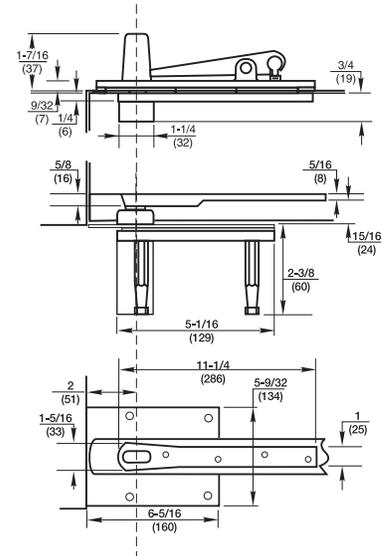
- Available with extended spindles in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Center hung pivots are door hanging means only. To close doors, see floor closer sections of the catalogs.

*For doors taller than 8'6" use top pivot 345 in lieu of 340



Technical Information



Application

- Exterior or Interior Doors
- Weight to 1,000 lbs.
- Door Sizes up to 4'0" x 8'6"* (1219 x 2591mm)
- Non-handed

Product Description & Features

- H340 top pivot included
- Bottom pivot is mortised into floor
- End load arm for minimum 2" (51mm) thick doors
- Pivot point centered in thickness of door
- Additional surface applied thrust bearing
- Door must have radius on pivot edge
- Pivot point remains constant at 2-3/4" (70mm) from the edge of the door
- Pivot set features sealed bearings for protection against weather and debris
- Not allowed for use on labeled doors and frames
- Furnished with wood and machine screws

Optional Features

- Available with extended spindles in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Compliance

- ANSI/C07011

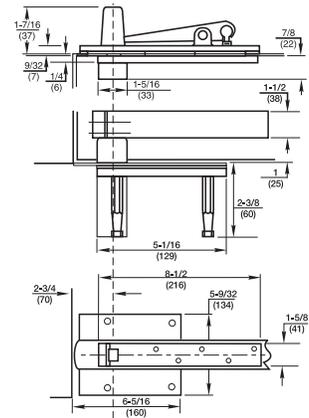
Center hung pivots are door hanging means only. To close doors, see floor closer sections of the catalogs.

*For doors taller than 8'6" use top pivot H345 in lieu of H340

Model H117-3/4



Technical Information



Model H117-3/4 X 587 Arm

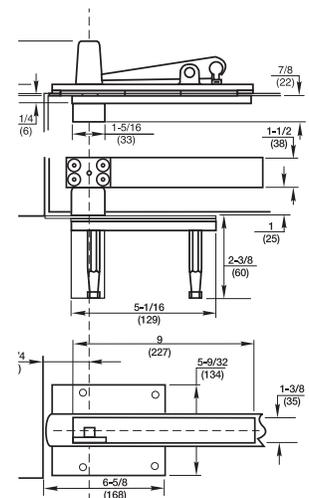
Product Description & Features

Identical to the H117-3/4 except:

- Special side load arm for 1-3/4" (44mm) thick doors or for moving pivot point toward lock edge of door



Technical Information



Model 320

Application

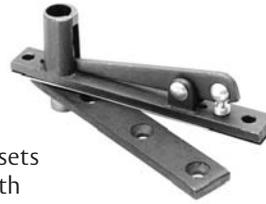
- Fully Concealed
- Non-handed

Product Description & Features

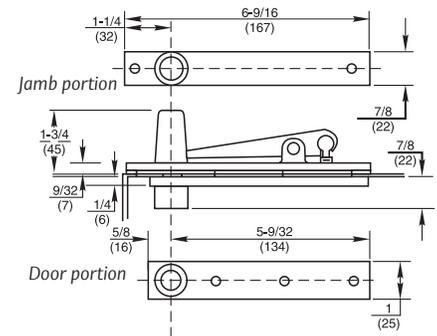
- Standard top pivot for Models 127-3/4, 128-3/4, and 176 pivot sets
- Walking beam-type pivot – 1/2" (13mm) diameter pivot pin with 3/4" (19mm) engagement
- Oil-impregnated sintered bronze bushing
- Completely concealed when door is closed
- Furnished with wood and machine screws

Optional Features

- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only



Technical Information



Model 340

Application

- Fully Concealed
- Non-handed

Product Description & Features

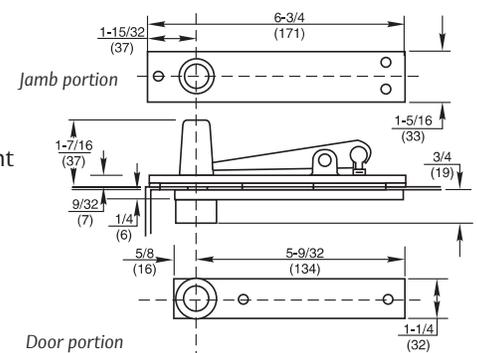
- Standard top pivot for Models 370 and 117-3/4 pivot sets. Also used for 28, 30, 40 and 50 Series floor closers
- Walking beam-type pivot – 1/2" (13mm) diameter pivot pin with 3/4" (19mm) engagement
- Oil-impregnated sintered bronze bushing
- Completely concealed when door is closed
- Furnished with wood and machine screws

Optional Features

- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only



Technical Information



Model 340 X 102

Application

- Fully Concealed
- Non-handed

Product Description & Features

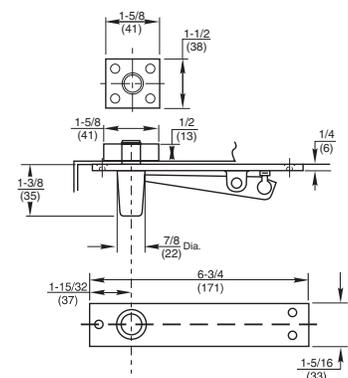
- Optional top pivot for doors or frames that have conflicts with other hardware
- Can be inverted. The walking beam portion would be installed the header of the frame
- No finish plate supplied
- If inverted, finish plate should be ordered and priced separately
- Oil-impregnated sintered bronze bushing
- Completely concealed when door is closed
- Furnished with wood and machine screws
- For lighter weight doors use 320 x 102

Optional Features

- Available with longer than standard pivot pins. Increments are 1/4" (6mm) up to 3/4" (19mm)



Technical Information



RIXSON
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Application

- Surface mounted
- Handed doors up to 3'6" (1067mm) wide

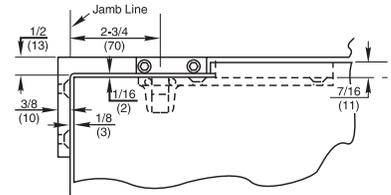
Product Description & Features

- Used where no frame exists above door, or where it is not possible to anchor pivot into header of frame
- Center hung applications only
- Furnished with 340 door portion
- Part is handed to keep installation plate to inside of room or building
- Furnished with wood and machine screws

Model 340 X AP3



Technical Information



Application

- Fully Concealed
- Heavy-Duty
- Non-handed

Product Description & Features

- Standard top pivot for Model H117-3/4 pivot set. Also used for H28 and H40 Series floor closers
- Can be used with any floor closer or pivot set with pivot point 2-3/4" (70mm), or greater, from edge of the door
- Walking beam-type pivot – 11/16" (17mm) diameter pivot pin with 3/4" (19mm) engagement
- Heavy-duty needle bearing
- Completely concealed when door is closed
- Furnished with wood and machine screws

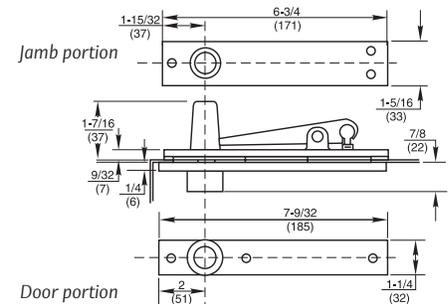
Optional Features

- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Model H340



Technical Information



RIXSON
ASSA ABLOY

Model 345

Application

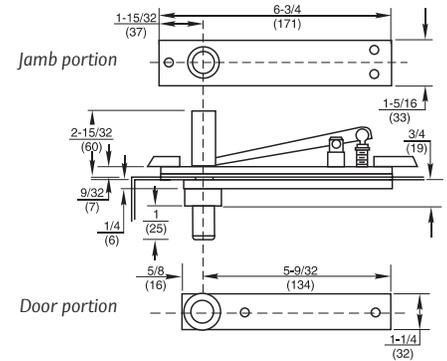
- Fully Concealed
- Center Hung
- Non-handed
- Earthquake Tolerant
- Taller Doors

Product Description & Features

- Optional top pivot
- Ideal for locations where there is a fear of dramatic building settling or for doors over 8'6" (2491mm) in height
- Long pivot pin engages in top of door 1-3/4" (44mm)
- Can be used with any center hung bottom pivot or floor closer. Order pivot set or floor closer LTP (less top pivot) with 345 on separate line item
- Walking beam-type pivot - 1/2" (13mm) diameter pivot pin
- Oil-impregnated sintered bronze bushing
- Completely concealed when door is closed
- Furnished with wood and machine screws



Technical Information



Model H345

Application

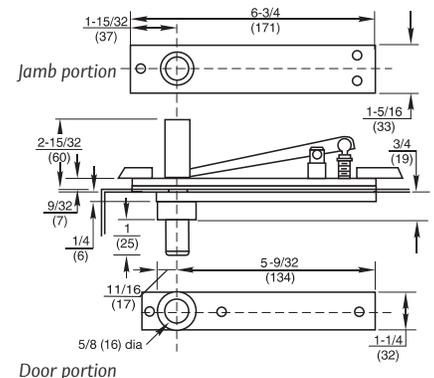
- Fully Concealed
- Center Hung
- Non-handed
- Earthquake Tolerant
- Taller Doors

Product Description & Features

- Ideal for locations where there is a fear of dramatic building settling or for doors over 8'6" (2591mm) in height
- Long pivot pin engages in top of door 1-3/4" (44mm)
- Can be used with any center hung bottom pivot or floor closer whose pivot point is 2-3/4" (70mm), or greater, from the edge of the door. Order pivot set or floor closer LTP (less top pivot) with H345 on separate line item
- Walking beam-type pivot - 11/16" (17mm) diameter pivot pin
- Heavy-duty needle bearing
- Completely concealed when door is closed
- Furnished with wood and machine screws



Technical Information



Application

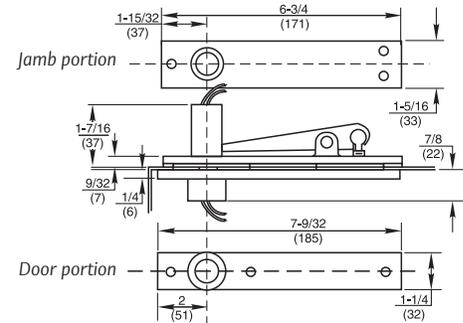
- Center Hung
- Top Pivot for Power Transfer
- Non-handed

Product Description & Features

- Walking beam type pivot – 11/16" (17mm) diameter pivot pin with 3/4" (19mm) engagement
- Can be used with any center hung bottom pivot or floor closer. Order the pivot set LTP (less top pivot) with E-H340 as a separate line
- Heavy-duty needle bearing
- Specify two, four, six, eight or twelve wires
- Two-wire is available in 18 gauge and is not available ElectroLynx®
- Four, six, eight and twelve wires are 24 gauge and available in ElectroLynx®. Suffix QC# (number of wires)
- Completely concealed when door is closed
- Furnished with wood and machine screws



Technical Information



Application

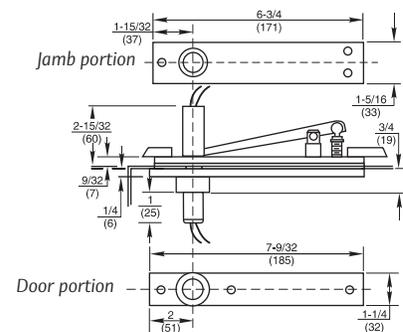
- Fully Concealed
- Center Hung
- Top Pivot for Power Transfer
- Non-handed
- Earthquake Tolerant
- Taller Doors

Product Description & Features

- Walking beam-type pivot – 11/16" (17mm) diameter pivot pin
- Longer pivot pin throw engages in top of door 1-3/4" (44mm). Ideal for locations where there is a fear of dramatic building settling
- Can be used with any center hung bottom pivot or floor closer whose pivot point is 2-3/4" (70mm), or greater, from the edge of the door. Order the pivot set LTP (less top pivot) with E-H345 as a separate line
- Used with heavy-duty pivots & floor closers
- Heavy-duty needle bearing
- For doors over 8'6" in height
- Specify two, four, six, eight or twelve wires
- Two-wire is available in 18 gauge and is not available with ElectroLynx®
- Four, six, eight and twelve wires are 24 gauge and available in ElectroLynx®. Suffix QC# (number of wires)
- Furnished with wood and machine screws



Technical Information

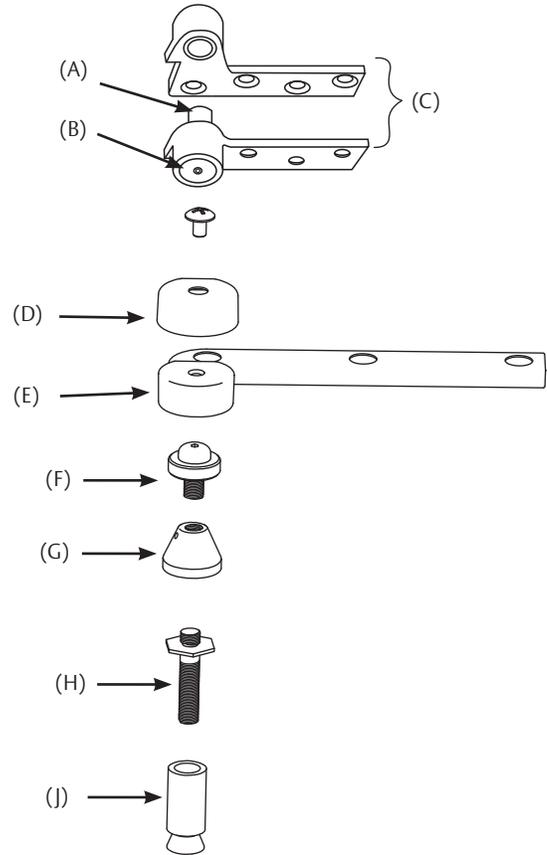


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in door opening solutions

Model 173 Pivot Set

- | | |
|---------------------------------|-----------------------------|
| (A) Pivot Stud 181770-ASY | Screw Kits |
| (B) Hex Cap 181778-* | 180 Screw Kit |
| (C) 180 Top Pivot | 107014 - * Machine (2 req.) |
| (D) Arm Cap and Screw 12029-*AS | 107114 - * Wood (2 req.) |
| (E) Arm LH 11706L*AS | Bottom Arm Screw Kit |
| (E) Arm RH 11705R*AS | 173176 Wood and Machine |
-
- 173 x 1-1/2" Offset
- (E) 1-1/2" offset arm LH
11706L15*
- (E) 1-1/2" offset arm RH
11705R15*
-
- (F) Spindle Stud 173003
- (G) Spindle Collar 173001
- (H) Mounting Bolt 173002
- (J) Floor Anchor 173010



Model 117-1/4 Pivot Set

Right Hand Shown

3/4" Offset Only

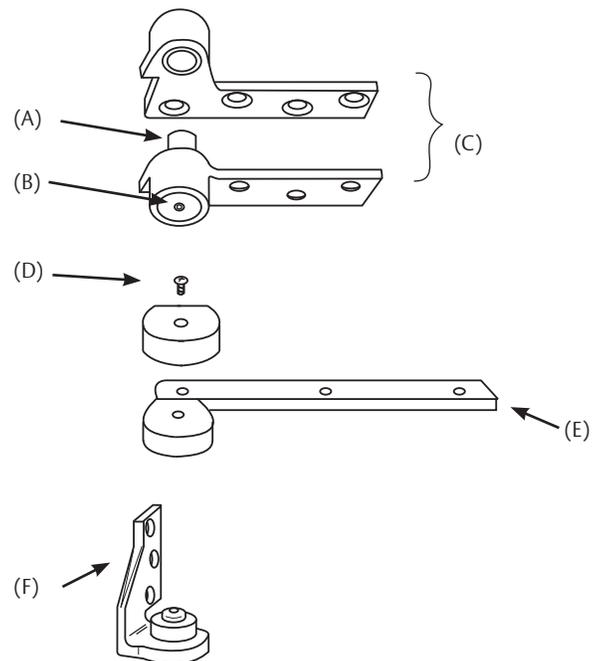
- (A) Pivot Stud 181770-ASY
- (B) Hex Cap 181778-*
- (C) 180 Top Pivot
- (D) Arm Cap and Screw 12029-*AS
- (E) Arm LH 11706LAS
- (E) Arm RH 11705RAS
- (F) Floor Portion Assy RH 17406R*AS
- (F) Floor Portion Assy LH 17406L*AS

Screw Kits

- 180 Screw Kit
- 107014 - * Machine (2 req.)
- 107114 - * Wood (2 req.)
- 117-1/4 Screw Kit 117127 - *

*specify finish

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Model 117, F117 Pivot Set

Right Hand Shown

3/4" and 1-1/2" Offset

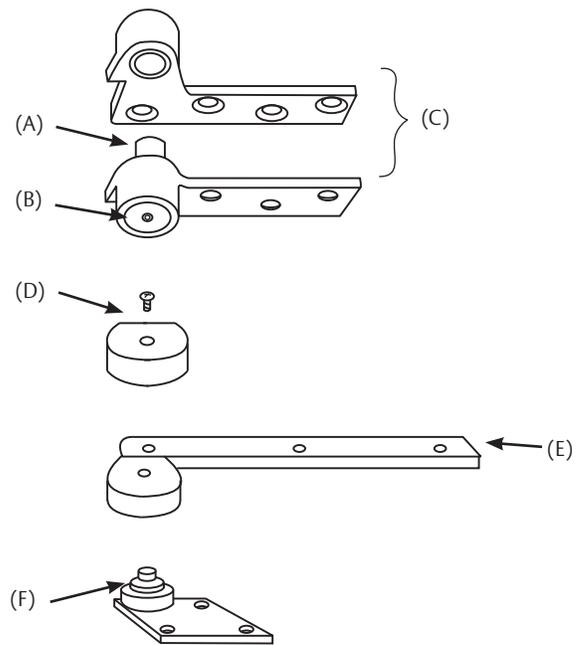
- (A) Pivot Stud 181770-ASY
- (B) Hex Cap 181778-*
- (C) 3/4" Offset Top Pivot Assembly
180 (standard)
F180 (Fire Rated)
180-20 (20 minutes)
- (D) Arm Cap and Screw 12029-AS
- (E) 3/4" Offset Arm LH 11706LASY
- (E) 3/4" Offset Arm RH 11705RASY

117 x 1-1/2 OS

- (E) 1-1/2" Offset Arm LH 11706L15*
- (E) 1-1/2" Offset Arm RH 11705R15*
- (F) 117 Floor Portion Assy 17526-AS
F117 Floor Portion Assy 17559-AS

Screw Kits

- 180 Screw Kit
107014 - * Machine (2 req.)
107114 - * Wood (2 req.)
- Bottom Pivot Screw Kit 117127 -*



Model 195 Pivot Set

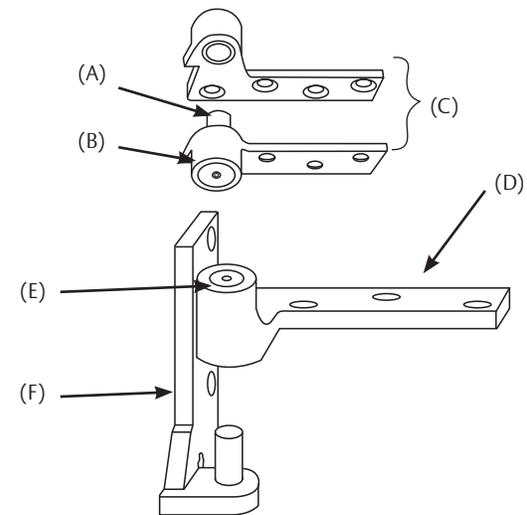
Right Hand Shown

3/4" Offset

- (A) Pivot Stud 181770-ASY
- (B) Hex Cap 181778-*
- (C) 3/4" Offset Top Pivot Assembly
180 (standard)
F180 (Fire Rated)
- (D) Door Portion Asy RH 19503-AS
(D) Door Portion Asy LH 19504-AS
- (E) Cap 19511-*
- (F) Jamb Portion Asy RH
(Includes Stud) 19501-AS
- (F) Jamb Portion Asy LH
(Includes Stud) 19502-AS

Screw Kits

- 180 Screw Kit
107014 - * Machine (2 req.)
107114 - * Wood (2 req.)
- 195 Screw Kit
107014 - * Machine (2 req.)
107114 - * Wood (2 req.)



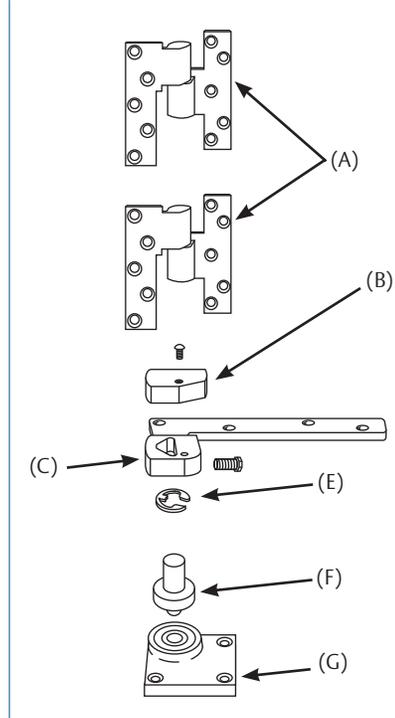
*specify finish

Right Hand Shown

3/4" Offset Only

- (A) M190 Intermediate Pivot (For Fire-Rated Doors order FM190)
- (B) Arm Cap & Screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)
- (C) Arm x Locking Screw
275177RH
275176LH
- (D) Arm x Locking Screw Pkg (5 per)
88905-PKG
- (E) Arm Shim Kit (2 per) 107071
- (F) Spindle Stud 14714
- (G) 147 Floor Portion x Bearing 14721-*AS

*specify finish



Right Hand Shown

3/4" and 1-1/2" Offset

- (A) Pivot Stud 181770-ASY
- (B) Hex Cap 181778-*
- (C) 3/4" Offset Top Pivot Assembly
180 (standard)
F180 (Fire Rated)
180-20 (20 minutes)
- (D) Arm Cap & Screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)
- (E) Arm x Locking Screw
3/4" Offset 275177 RH
3/4" Offset 275176 LH

147 & F147 1-1/2 OS

- (E) Arm x Locking Screw
1-1/2" Offset 275167-*
- (F) Arm Lock Screw Pkg (5 per) 88905-PKG
- (G) Arm Shims (2 per) 107071
- (H) Spindle Stud 14714
- (I) 147/F147 Floor Portion x Bearing 14721-*AS

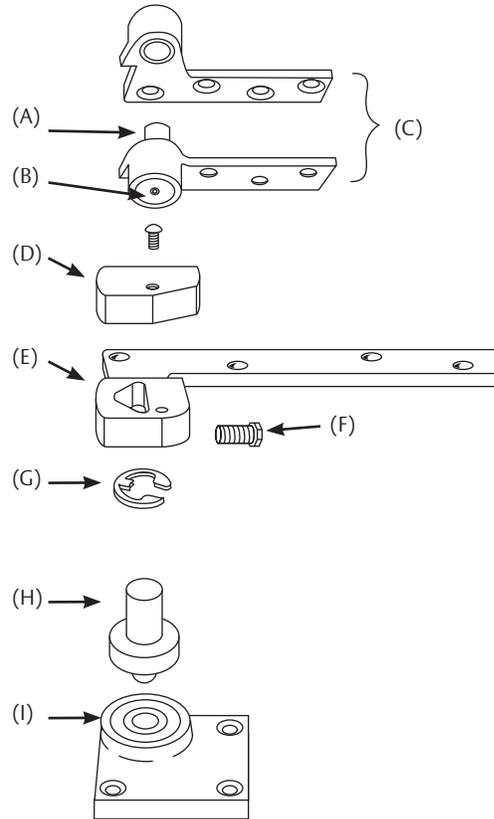
Screw Kits

- 180/F180 Screw Kit
- 107014 - * Machine (2 req.)
- 107114 - * Wood (2 req.)

Arm Screw Kit

- 107044 Machine
- 107144 Wood
- 147/F147 Bottom Pivot Screw Kit (includes "E" ring shims) 107062-*

*specify finish



Right Hand Shown

3/4" and 1-1/2" Offset

- (A) Pivot Stud 181770-ASY
- (B) Hex Cap 181778-*
- (C) 3/4" Offset Top Pivot Assembly
180 (standard)
F180 (Fire Rated)
180-20 (20 minutes)
- (D) Arm Cap & Screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)
- (E) Arm x Locking Screw
3/4" Offset 275177 RH
3/4" Offset 275176 LH
- (F) Arm Lock Screw Pkg (5 per) 88905-PKG
- (G) Arm Shim Kit (5 per) 275065-PKG
- (H) Spindle Shoulder Collar 16301*
- (I) Floor Plate x Screws 1174050-*
- (J) 117-1/2 & F117-1/2 Floor Portion Assembly X01176350

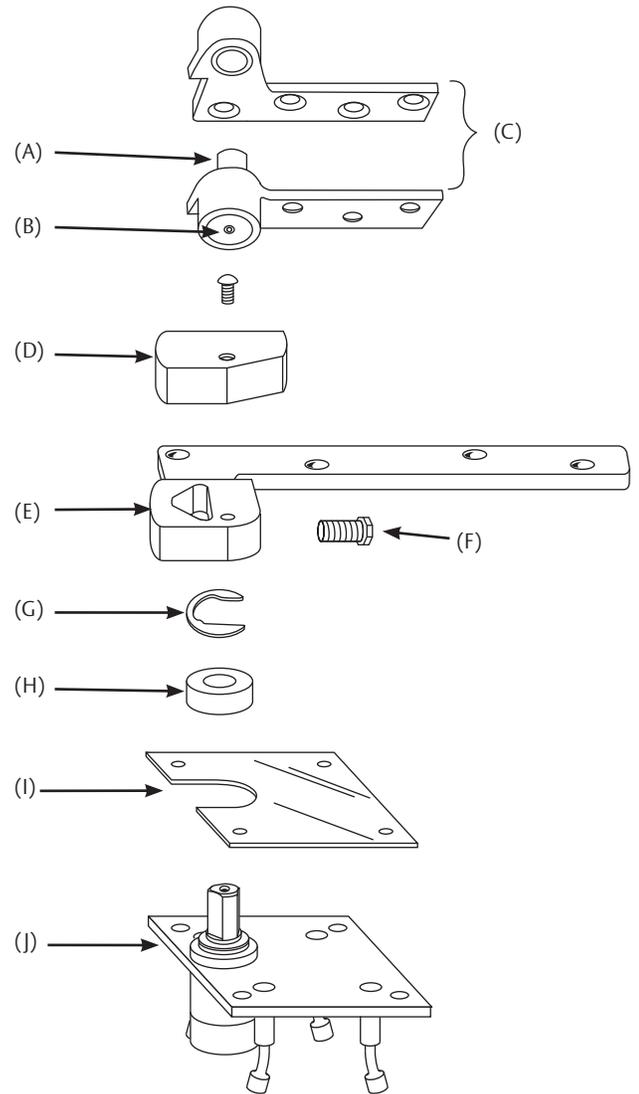
1-1/2" Offset Arm 275167-*

Screw Kits

- 180/F180 Screw Kit
- 107014 - * Machine (2 req.)
- 107114 - * Wood (2 req.)
- Floor Plate Screw Kit 107004-*

Arm Screw Kit

- 107044 - * Machine
- 107144 - * Wood



*specify finish

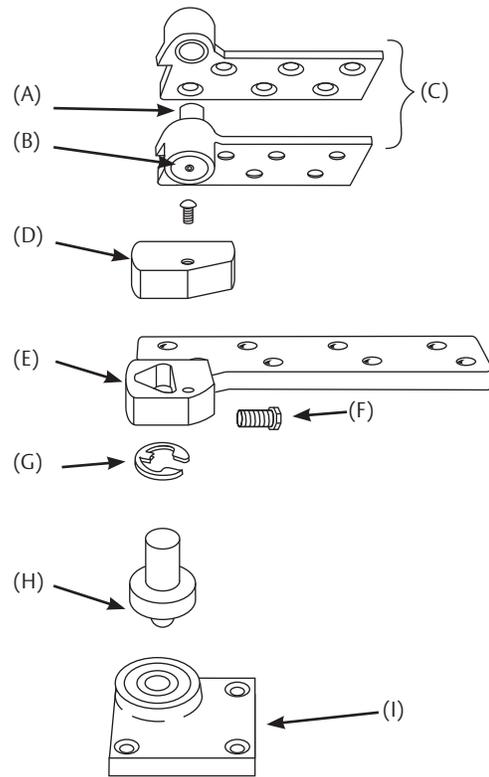
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in door opening solutions

Right Hand Shown

3/4" Offset Only

- (A) Pivot Stud 181770-ASY
- (B) Hex Cap 181778-*
- (C) 3/4" Offset Top Pivot Assembly
L180 (standard)
FL180 (Fire Rated)
L180-20 (20 minutes)
- (D) Arm Cap & Screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)
- (E) Arm x Locking Screw
1-3/4" Door 18550-Asy RH
18650-Asy LH
- (E) Arm x Locking Screw
2" Door 18551-Asy RH
18651-Asy LH
- (E) Arm x Locking Screw
2-1/4" Door 18552-Asy RH
18652-Asy LH
- (E) Arm x Locking Screw
2-1/2" Door 18553-Asy RH
18653-Asy LH
- (E) Arm x Locking Screw
3" Door 18554-Asy RH
18654-Asy LH
- (F) Arm Lock Screw Pkg (5 per) 88905-PKG
- (G) Arm Shims (2 per) 107071
- (H) Spindle Stud 14714
- (I) L147 Floor Portion x Bearing 14721-*AS



Screw Kits

- 180/F180 Screw Kit
- 107016 - * Machine (2 req.)
- 107116 - * Wood (2 req.)
- Arm Screw Kit
- 107048 Machine (2 req.)
- 107144 Wood (2 req.)
- L147/F147 Bottom Pivot Screw Kit
(includes "E" ring shim) 107062-*

Special Note: FL147 is available for 1-3/4" doors only

*specify finish

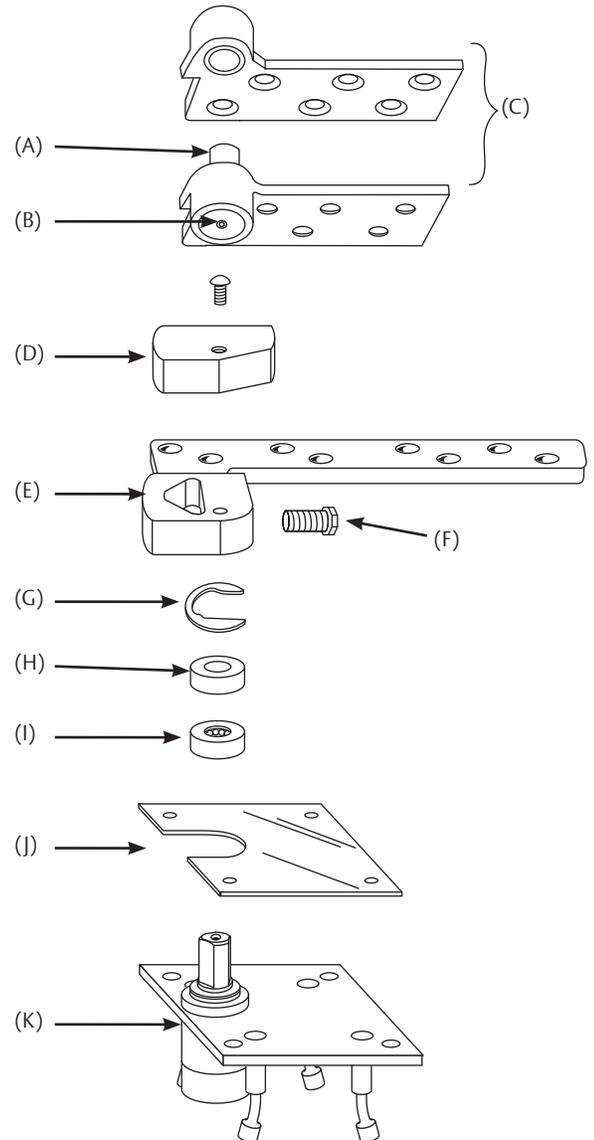
Right Hand Shown

3/4" Offset Only

- (A) Pivot Stud 181770-ASY
- (B) Hex Cap 181778-*
- (C) 3/4" Offset Top Pivot Assembly
L180 (standard)
FL180 (Fire Rated)
L180-20 (20 minutes)
Note: FL is available for 1-3/4" doors only
- (D) Arm Cap & Screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)
- (E) Arm x Locking Screw
1-3/4" Door 18550-ASY RH
18650-ASY LH
- (E) Arm x Locking Screw
2" Door 18551-ASY RH
18651-ASY LH
- (E) Arm x Locking Screw
2-1/4" Door 18552-ASY RH
18652-ASY LH
- (E) Arm x Locking Screw
2-1/2" Door 18553-ASY RH
18653-ASY LH
- (E) Arm x Locking Screw
3" Door 18554-ASY RH
18654-ASY LH
- (F) Arm Lock Screw Pkg (5 per) 88905-PKG
- (G) Arm Shim Kit (5 per) 275065-PKG
- (H) Spindle Shoulder Collar 259500-*
- (I) Heavy-Duty Thrust-Bearing 41204-PKG
- (J) Floor Plate x Screws 1174050-*
- (K) Floor Portion Assembly X01176351
Includes 41204-PKG

Screw Kits

- L180/FL180 Screw Kit
107016 - * Machine (2 req.)
107116 - * Wood (2 req.)
- Arm Screw Kit
107048 - * Machine (2 req.)
107114 - * Wood (2 req.)
- Floor Plate Screw Kit
107004 - * Machine (2 req.)
- Special Note: FL117 is available for 1-3/4" doors only*



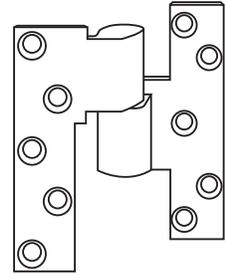
*specify finish



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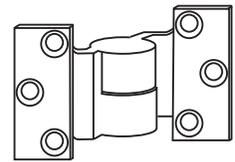
M19, M190, ML19, FA19, 219, 319, FM19, FM190, All Electrified M19 Intermediate Pivots

Model	Description
107015-*	Metal Screws for One Leaf
107115-*	Wood Screws for One Leaf
181778-*	Hex Cap
219, 319 and 419 Also Use:	
107059-*	Includes Screws and Backplate
	Torx® Available - Suffix "T"



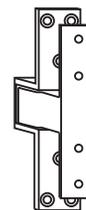
Model 119 Intermediate Pivot

Model	Description
107014-*	Metal Screws for One Leaf
107114-*	Wood Screws for One Leaf
	Torx® Available - Suffix "T"



Model F519 Pocket Pivot

Model	Description
619005-*	Screw Kit
	Torx® Available



*specify finish

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Model 176 Pivot Sets

- (A) Top Pivot Jamb Portion 640-ASY
- (B) Top Pivot Plate x Screws
12724-*PK (SS)
12720-*PK (BRG)
- (C) Top Pivot Door Portion 12716
- (E) Bottom Arm 12704
- (F) Sleeve 176001
- (G) Mounting Bolt 176002
- (H) Floor Anchor 173010

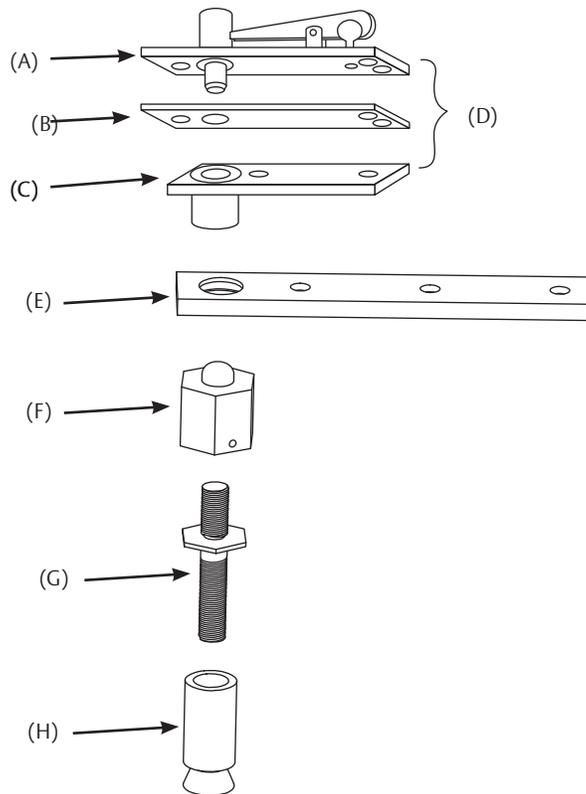
Screw Kits

320 Screw Kit

107340 Machine and Wood

Bottom Arm Screw Kit

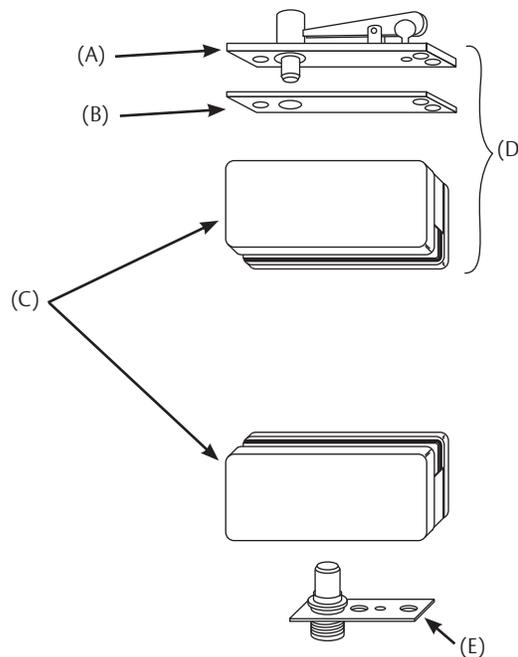
173176 Machine and Wood



Model 178 Pivot Sets

- (A) Top Jamb Portion 42801
- (B) Finish Plate
012202-*PK (BRS)
012204-*PK (SS)
- (C) Patch Fitting 7495-*
- (D) Top Patch 7494-* PK
- (E) Bottom Pivot Floor Portion 74104

Top Pivot Screw Kit 107329



*specify finish

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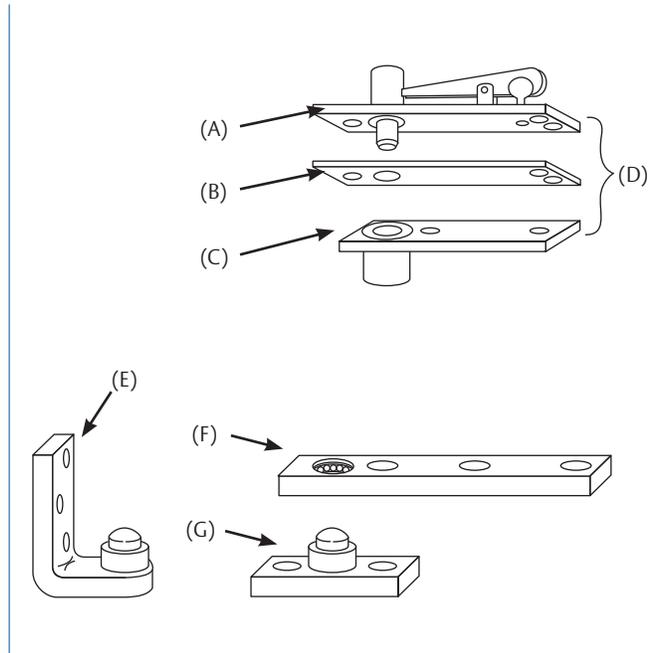
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- (A) Top Pivot Jamb Portion
640-ASY
- (B) Top Pivot Plate x Screws
12724-*PK (SS)
12720-*PK (BRS)
- (C) Top Pivot Door Portion
12716
- (D) 320 Top Pivot
- (E) Jamb Portion & Stud
Assembly 127-3/4 Only
12711-*
- (F) Arm & Bearing Assembly
12714 Door Portion
- (G) Floor Pivot & Stud
Assembly 128-3/4 Only
71521-*AS

Screw Kits

- 320 Screw Kit
- 107340 Machine & Wood
- 127-3/4 & 128-3/4 Screw Kit 117127-*

*specify finish

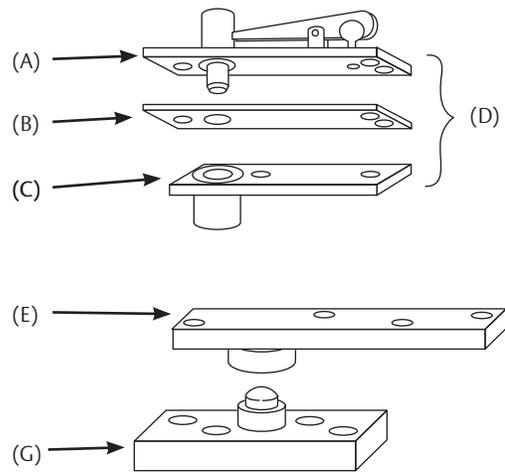


Model 370 Pivot Set

- (A) Top Pivot Jamb Portion
3065
- (B) Finish Plate x Screws
012202-*PK (BRS)
012204-*PK (SS)
- (C) Top Pivot Door Portion
30243
- (D) 340 Top Pivot
- (E) Arm 22131
- (G) Floor Portion and Stud 22121-*

Screw Kits

- 340 Top Pivot Screw Kit
- 107329 Machine & Wood
- 370 Floor Portion 107370-*



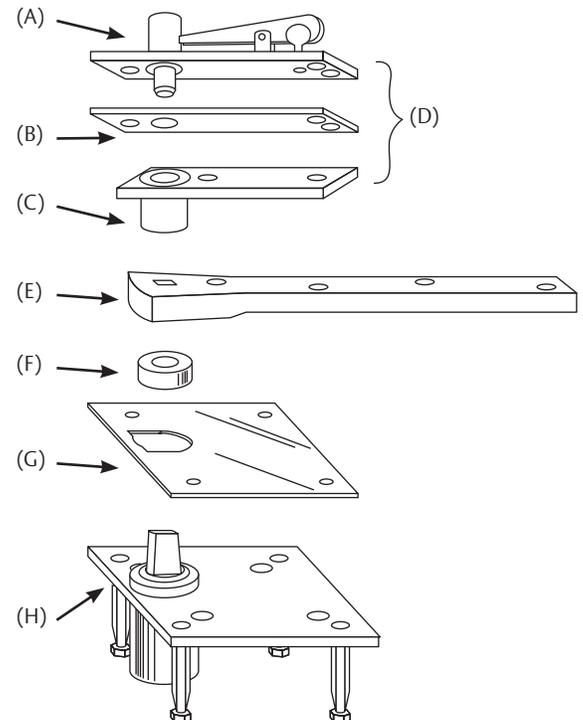
Model 117-3/4 Pivot Set

- (A) Top Pivot Jamb Portion 3065
- (B) Top Pivot Finish Plate
012202-*PK (BRS)
012204-*PK (SS)
- (C) Top Pivot Door Portion 30243
- (D) 340 Top Pivot
- (E) Arm 185.75
- (F) Spindle Shoulder Collar 16301*
- (G) Floor Plate x Screws 1174020-*
- (H) Floor Portion Assembly X01176320

Screw Kits

- 340 Top Pivot Screw Kit
- 107329 Machine & Wood
- Floor Plate Screws
107004-* Machine & Wood
- Arm Screw Kit 107064

*specify finish



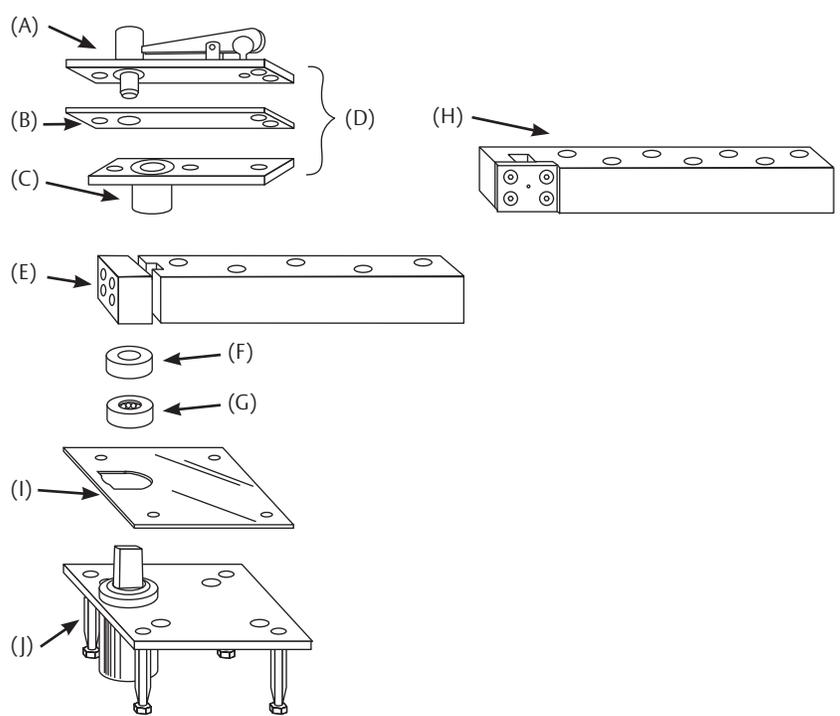
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- (A) Top Pivot Jamb Portion 308548
- (B) Top Pivot Finish Plate
012202-*PK (BRS)
012204-*PK (SS)
- (C) Top Pivot Door Portion 30141
- (D) 340 Top Pivot
- (E) Standard End Load Arm Package 262022
- (F) Spindle Shoulder Collar 259500-*
- (G) Heavy-Duty Thrust Bearing 41204-PKG
- (H) 587 Side Load Arm Package 262587
- (I) Floor Plate x Screws 1174020-*
- (J) Floor Portion Assembly X01176322 Includes 41204-PKG

Screw Kits

- H340 Screw Kit
- 107329 Machine & Wood
- Arm Screw Kit
- 107045 - Machine
- 107145 - Wood
- 587 Arm Screw Kit
- 107077 Machine
- 107177 Wood
- Arm Shim Screw Kit 107060
- Floor Plate Screw Kit
- 107004-*

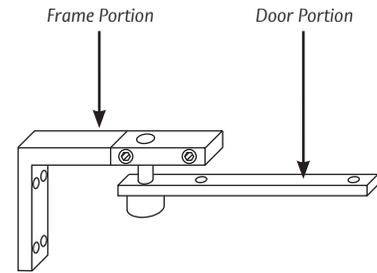


*specify finish

Angle Pivot-3

Model	Description
107047*	Includes Screws and Stud
30243	Door Portion
30814**	Frame Portion (handed)

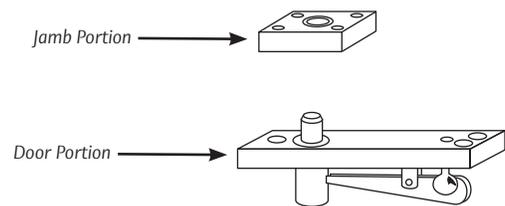
Torx® not available.



Top Pivot 340 X 102 or 320 X 102

Model	Description
10210 AS	Jamb Portion
3065	Door Portion
640-ASY	Door Portion (320 x 102)
107012*	Jamb Portion Screw Kit
107329	Door Portion Screw Kit

Torx® not available.



*specify finish



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HOW TO ORDER

Prefix	L147 Model	3/4" Offset	x LTP x 2-1/4 dr Suffix	x RH Hand	x 626 Finish
F Fire-Rated Doors	117-1/4 117 173 147 L147 547 165 195 117-1-1/2 L117 127-3/4 128-3/4 370 117-3/4 H117-3/4 176 178	3/4" 1-1/2" Blank - Center Hung	587 CH Arm for 1-3/4" Dr - Extended Spindles - Longer Top Pivot Pins LTP Less Top Pivot -20 20-Minute Label - Cover Pan (xDepth) SPLO Special Layout # - Door Thickness - L Product	RH Right Hand LH Left Hand Blank - Center Hung	605 Bright Brass 606 Satin Brass 611 Bright Bronze 612 Satin Bronze 613 Dark Bronze 613E Dark Oxidized Satin Bronze - equivalent 618 Bright Nickel 619 Satin Nickel 622 Flat Black 625 Bright Chrome 626 Satin Chrome BSP Black Suede Powder



PRODUCT COMPARISON CHARTS

OFFSET HUNG PIVOT SETS

	173	117-1/4	117	165	195	547	147	117-1/2	L147	L117
Application	Standard	Standard	Standard	For doors without bottom pivots	Standard	Arch top doors or overhead concealed closers	Standard	Standard	Lead lined, heavy or high traffic doors	Lead lined, heavy or high traffic doors
3/4" offset standard	•	•	•	•	•	•	•	•	•	•
1-1/2" offset optional ¹	•		•				•	•		
Handed	•	•	•	•	•	•	•	•	•	•
Exterior door				•	•	•	•	•	•	•
Interior door	•	•	•	•	•	•	•	•	•	•
Door weight	150 lbs.	250 lbs.	300 lbs.	300 lbs.	450 lbs.	500 lbs.	600 lbs.	650 lbs.	800 lbs.	1750 lbs.
Maximum door swing ²	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°
Maximum door width	36"	42"	42"	42"	48"	42"	48"	48"	48"	48"
1-3/4" Standard door thickness	•	•	•	•	•	•	•	•	•	•
Optional door thicknesses available ³									•	•
Standard top pivot (included)	180	180	180	H180	180	N/A	180	180	L180	L180
Intermediate pivot (order separately)	119	119	119	(2) M190's included	119 or M19	(2) M190's included	M19	M19	ML19	ML19
Bottom pivot mounting	Mounts directly to concrete floor	Mortised into side jamb	Mortised into floor	N/A	Mortised into side jamb	Mounts directly to floor	Mounts directly to floor	Mortised into floor	Mounts directly to floor	Mortised into floor
Extended spindles available ⁴		•	•	N/A	•	•	•	•	•	•
Optional Features			F, -20		F	F, -20	F, -20	F, -20	F, -20	F, -20
Furnished with wood and machine screws		•	•	•	•	•	•	•	•	•

1 Door weight is less when 1-1/2" offset is ordered

2 Trim permitting

3 Can accommodate the following door thicknesses: 2", 2-1/4", 2-1/2" or 3". Specify when ordering

4 1/2" increments up to 2"

Options	Designation
Fire Rated	F
20 minute label	-20



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INTERMEDIATE PIVOTS

	119	219	319	419	FA19	M19	M190	ML19
Application	Standard	Flush door and frame applications	Flush door and frame applications	Flush door and frame applications	Asylum or high security	Standard	Use when frame conditions do not allow standard top pivot	Lead-lined, heavy or high traffic
3/4" offset standard	•	•	•	•	•	•	•	•
1-1/2" offset optional						•	•	
Handed	•	•	•	•	•	•	•	•
Standard door thickness	1-3/4"	1-3/4" only	1-3/4"	1-3/4" only	1-3/4"	1-3/4"	1-3/4"	1-3/4"
Optional door thicknesses available ¹								•
Mounting	Full mortise	Half surface	Half mortise	Full surface	Full mortise	Full mortise	Heavy-duty full mortise	Full mortise
Maintains door alignment	•	•	•	•	•	•	•	•
Load bearing							Lateral load bearing	•
Heavy-duty needle bearing							•	
Optional Features					F is standard	F, -20	F, -20	F, -20
Furnished with wood and machine screws	•	•	•	•	•	•	•	•

1 Can accommodate the following door thicknesses: 2", 2-1/4", 2-1/2" or 3". Specify when ordering.

Options	Designation
Fire Rated	F
20 minute label	-20

ELECTRIFIED INTERMEDIATE PIVOTS

	E-M19 ^{1,3}	E-M19U ²	E-ML19 ^{1,4}
Application	Electric Pivot for Power Transfer	Electric Pivot for Power Transfer and for Electrified Panic Devices with Large Inrush Current	Electric Pivot for Power Transfer
3/4" offset standard	•	•	•
1-1/2" offset optional	•		
Handed	•	•	•
Standard door thickness	1-3/4"	1-3/4"	1-3/4" only
Available wires	4, 6, 8 or 12 (24 gauge)	2 (18 gauge)	4, 6, 8 or 12 (24 gauge)
Non-load bearing	•	•	•
Options	F, -20, QC		F, -20, QC
Furnished with wood and machine screws	•	•	•

Note: Door and jamb portion are factory assembled and cannot be separated

- 1 24-gauge wire is rated at 2 amps for low voltage, Class II wiring applications
- 2 18-gauge wire is rated at 2 amps continuously. UL listed for 24-volt, Class I wiring
- 3 Always use M19 intermediate pivot to install door
- 4 Always use ML19 intermediate pivot to install door

Options	Designation
Fire Rated	F
20 minute label	-20
ElectroLynx®	QC



CENTER HUNG PIVOT SETS

	176	178	127-3/4	128-3/4	370	117-3/4	H117-3/4	H117-3/4 x 587 Arm
Application	Standard	Full glass doors	Standard	Standard	Standard	Standard	Heavy-Duty	Heavy-Duty
Non-Handed	•	•	•	•	•	•	•	•
Exterior door					•	•	•	•
Interior door	•	•	•	•				
Door weight	150 lbs.	175 lbs.	200 lbs.	250 lbs.	500 lbs.	600 lbs.	1000 lbs.	1000 lbs.
Maximum door width	36"	36"	42"	42"	44"	48"	48"	48"
Standard door thickness	1-3/8" to 1-3/4"	3/8" – 1/2" glass	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-3/4"
Standard top pivot (included)	320	N/A	320	320	340	340	H340	H340
Bottom pivot mounting	Mounts directly into concrete floor	Mounts directly to floor	Mortised into side jamb	Mounts directly to floor	Mounts directly to floor	Mortised into floor	Mortised into floor	Mortised into floor
Extended spindles available ¹			•	•	•	•	•	•
Furnished with wood and machine screws	•		•	•	•	•	•	

¹ 1/2" increments up to 2"



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ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

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For a complete listing of products and applications please visit our web site.
www.rixson.com
www.assaabloydss.ca

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SHALLOW DEPTH FLOOR CLOSERS

Complete Door Control for Medium-Duty,
Interior Doors Where Concealment is Desired

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INTRODUCTION

Rixson's Shallow Depth Floor Closers provide long-lasting performance and reliability. Ideal for low to moderate traffic, interior doors, these closers are typically used in applications where traditional floor closer depth is too great. Shallow depth closers feature interchangeable spindle adapters, fixed spring sizes and separate and independent adjusting valves.



Series	Offset Hung	Center Hung	Independently Hung	Single Acting	Double Acting	Handed	Full Glass Door
51	•			•		•	
Q/QT51	•			•		•	
HM51	•			•		•	
F53			•	•		•	
50		•		•		•	
5020		•			•		
5040		•		•		•	•

TABLE OF CONTENTS

General Information.....3

Specifications.....3

Compliance3

How to Select Product4

Options5

51 Offset Closer6

51 Parts7

Q51/QT51 Offset Closer8

Q51/QT51 Parts9

HM51 Offset Closer10

HM51 Parts11

F53/F5310 Independently Hung Closer12

F53/F5310 Parts13

M19/M190 Intermediate Pivots (51, Q/QT51 Closers)14

F519 Pocket Pivot (F5310 Closer)15

50 x 554 Arm Center Hung Closer16

50 Center Hung Closer17

5020 Center Hung Closer.....18

50, 5020 Parts19

5040 Center Hung Closer (Glass).....20

5040 Part21

345 Pivot (Optional Top Pivot 50, 5020 Closers)22

Quick Reference.....23

How to Order.....23



GENERAL INFORMATION

Floor closers are ideal for supporting and controlling doors. Shallow Depth floor closers are recommended for low to medium traffic, interior doors.

The weight of the door is supported by bottom arm and floor

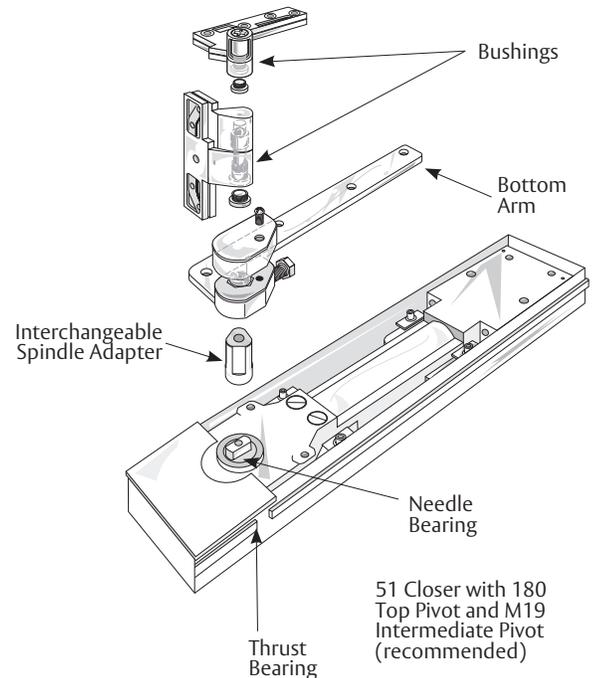
- Door swings with less resistance
- Reduced stress on frame
- Fasteners are in shear, not tension
- Eliminates door sag
- Vertically adjustable
- Thrust bearing supports vertical load
- Needle bearings for lateral forces

Bottom arm directly attached to closer spindle

- A mechanical advantage that increases efficiency insuring that ICC/ANSI A117.1 compliant, lower opening forces will still close the door
- One to one ratio of door swing to spindle rotation makes control more precise

Advantages of concealed floor closers

- Aesthetics
- Vandal resistant
- The solution for arch top doors – offset floor closers



SPECIFICATIONS

Interior door floor closers shall be models 50 (center hung), 51 (offset hung) or F53 (independently hung). These closers shall have separate and independent checking valves to control latch speed, closing speed and adjustable hydraulic backcheck. All closers shall have a minimum of two bearings internal to the closer. One shall be a thrust bearing and the other a needle bearing. Separate bearing surfaces shall be in the top pivot. Closers shall have cases no more than 2" deep. Fire rated model F51 shall have steel top pivots. Male spindle assemblies shall have removable spindle adapters, changeable in the field.

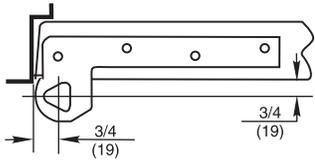
COMPLIANCE

All Rixson shallow depth floor closers conform to ANSI/BHMA A156.4 Standards. See individual products for sub sections.



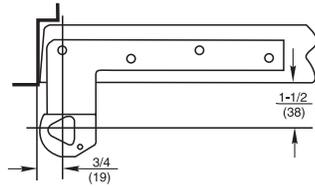
HOW TO SELECT PRODUCT

1. Offset vs. Center Hung Application



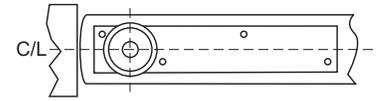
3/4" Offset

Pivot point located 3/4" from the heel edge of the door and 3/4" from face of door.



1-1/2" Offset

Pivot point located 3/4" from the heel edge of the door and 1-1/2" from face of door. Used on doors with cladding on face or trim on frame



Center Hung

Pivot point centered in thickness of door. Distance from heel edge can vary 2-3/4 and up (not for use on fire rated doors)

2. Size of door (width, height, thickness)

Estimated door weights pounds per square foot (PSF)

Door Material	Door Thickness		
	1-3/4"	2-1/4"	3"
Hollow Metal	6.5	7	—
Solid Core Wood	7	9	11.5
Aluminum/Glass Storefront	3.5	4	—
MDF	7	9	11.5
Tempered Glass	Glass Thickness		
	3/8"	1/2"	3/4"
	5	7	9.75
3/4" Cladding	Cladding Material		
		Wood	3

Example: 3/0 X 7/0 X 1-3/4"
Door: 21sq ft x 7lb./sq ft = 147lbs

Example: 3/6 X 8/0 X 1/2" Tempered Glass Door
Door: 28sq ft x 7lb./sq ft = 196lbs

For doors of other sizes consult factory

3. Expected Frequency of Door Operation

Application	Daily	Yearly	
Large department store entrance	5,000	1,500,000	High (Use heavy weight product)
Large office building entrance	4,000	1,200,000	
Theater entrance	1,000	365,000	
School entrance	1,250	225,000	
School restroom door	1,250	225,000	
Store or bank entrance	500	150,000	
Office building restroom door	400	118,000	
School corridor door	80	15,000	Average
Office building corridor door	75	22,000	
Store restroom door	60	18,000	
Residential entrance door	40	15,000	Low
Residential restroom door	25	9,000	
Residential hallway door	10	3,600	
Residential closet door	6	2,200	



Delayed Action – Prefix DA

After full open permits door to remain ajar (at 70 degrees) for up to 40 seconds. Operates by separate valve and can be shut off if not needed. Not available on closers with hold open feature. Closers with DA feature do not have backcheck.

Wood Door – Prefix W

When using a center hung product with the centering arm (e.g., 5010 and 5020) a special plate and less obtrusive adjusting screws are needed for wood doors. This plate is reinforcement for the deep mortise required for that arm, protecting the veneer.

Fire Rated – Prefix F 

Closer packages for fire rated doors (up to 3 hours) include a steel top pivot and must have additional steel intermediate pivots. These closers are non-hold open.

Twenty Minute Label – Suffix -20

This UL rating is for 20-minute doors. Pivots are brass-based material and include a visible label.

Less All Parts – Suffix LAP 

If closer is needed for replacement, the arm, cover, cement case, top pivot and floor plate are omitted.

Less Floor Plate – Suffix LFP

When thresholds or cover pans are being used the closer doesn't need the decorative floor plate.

Less Cement Case – Suffix LCC

For existing installations or when cement case has been sent earlier in construction. Closer will be packaged without the cement case.

Less Top Pivot – Suffix LTP

For unusual head conditions where the top pivot cannot be used, the closer is shipped without the top pivot. For offset installations an additional load bearing intermediate (side jamb) M190 pivot is required. All intermediate pivots for that opening should be M190's, not M19's.

Non Hold Open – Suffix NBC

These closers do not hold the door open. This feature cannot be changed in the field.

Automatic Hold Open – Suffix ABC

These closers hold the door open. This feature cannot be changed in the field. Specify 90°, 105° or 180°.

Hand – Suffix RH or LH

All single acting floor closers are handed. All double acting floor closers (5020) are non-handed.

Extended Spindle – Suffix Extra Length

Any special coverings or severe door undercuts will require an extended spindle. See product template to determine if an extended spindle is needed. Extended spindles are available in 1/2" increments up to 2" longer than standard.

1-1/2" Offset – Suffix 1-1/2

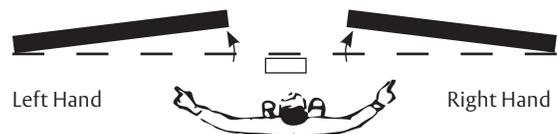
Offset is the distance from the face of the door to the pivot point. Extended offsets should not be used unless there is cladding on the face of the door or there is trim to clear on the frame. 1-1/2" offset arms and pivots are for doors with cladding or trim that project 3/4" from the face of the door.

Cover Pan (Terrazzo) – Suffix Part Number

Closers should always be accessible. They should never be buried beneath flooring materials. A cover pan sits on top of the closer and has the flooring material set in it. This way the sight line for the floor is consistent. Cover pans may require closers with longer spindles. See cover pan template to determine spindle length needed.

Special Layouts – Suffix SPLO#

Unique installations or specially engineered products are called special layouts. These numbers must be assigned by the technical support department and they must be called out specifically by their number when ordered.

How to Determine Hand of Door

Face a door swinging open away from you. If it opens to the right, it is right handed. If it opens to the left, it is left handed.

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Application

- Interior Doors
- Weight to 250 lbs.*
- Door Width up to 40" (1219mm)

Features

- Single Acting
- Handed
- 180 top pivot included
- M19 intermediate pivot recommended (order separately)
- Order spring sizes 3 through 5:

Model	Door Width
5103	36" (914mm)
5104	42" (1067mm)
5105	48" (1219mm)

- Allows doors to swing 180°, trim permitting
- Available non-hold open (NBC) or automatic hold open (ABC) specify 90°, 105° or 180°
- Doors will swing 5° beyond hold open point
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cylolac, rustproof cement case
- Vertical door adjustment
- Interchangeable spindle adapters
- Furnished with wood and machine screws
- For arch top doors or applications where a 180 top pivot cannot be used, supply at least two each M190 load bearing intermediate pivots, mounted together at the top of the vertical edge
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- 2-year limited warranty

Optional Features

- Delayed action option – prefix "DA" (non-hold open only). Closer will not have backcheck
- Extended spindles available in 1/2" increments up to 2" longer than standard
- Available 1-1/2" offset, for doors with cladding or frames with applied molding. Maximum door weight 175 lbs.

Compliance

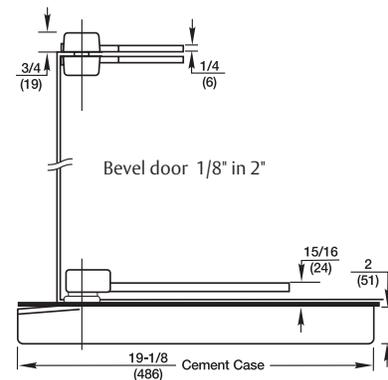
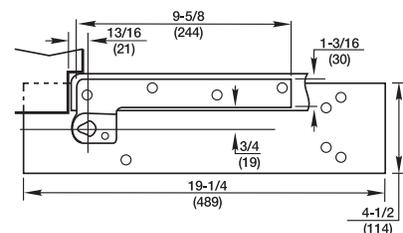
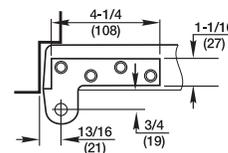
- ANSI/C06041/C06051
- For fire rated openings (up to 3 hour assemblies) prefix "F". This package will be supplied with a steel F180 top pivot and a non-hold open closer. FM19 intermediate pivot is required (order separately).
- For 20-minute label doors – suffix "-20" to the part number

*Door size & weight guidelines are determined using the appropriate number of intermediate pivots



Technical Information

Frame stop required



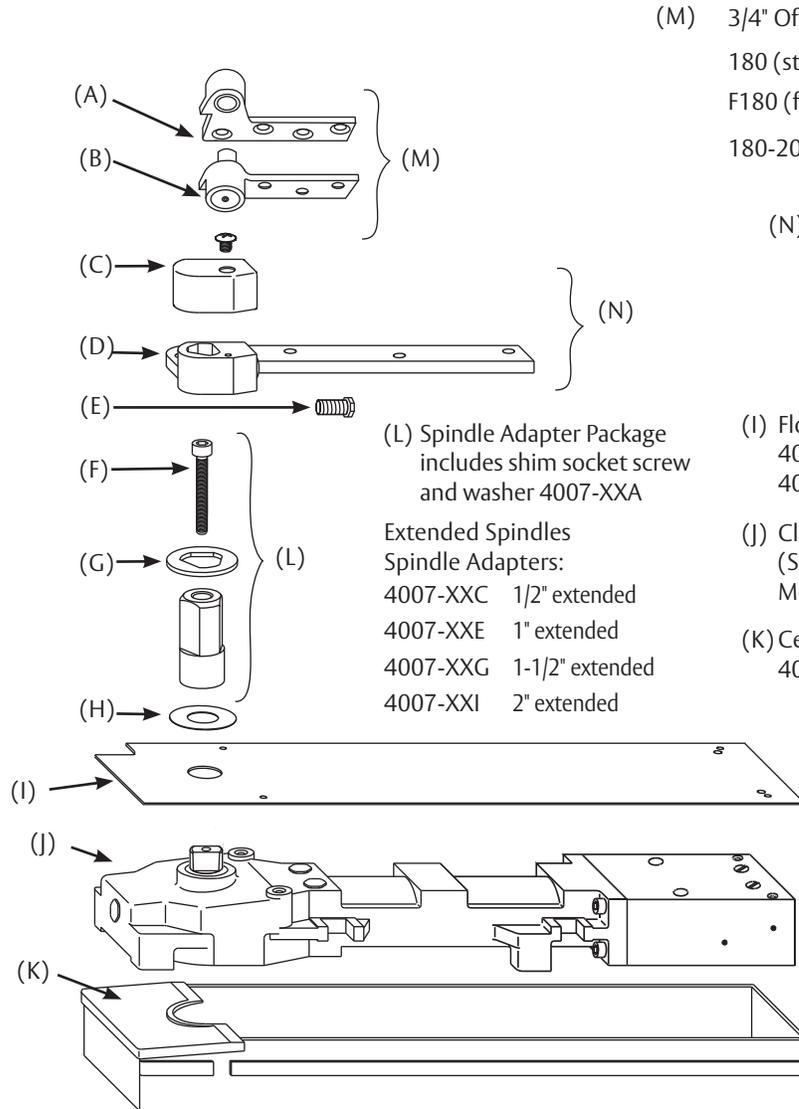
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RIGHT HAND SHOWN

3/4" OFFSET

- (A) Pivot Stud
181770-ASY
- (B) Hex Cap
181778-*
- (C) Arm Cap & Screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)
- (D) 3/4" Offset Arm x
Locking Screw
275177 (RH)
275176 (LH)
- (E) Arm Locking Screw Only
PKG (5) 88905
- (G) Arm Bearing Washer
275062-PKG (5)
- (H) Spindle Washer
519000-*



- (M) 3/4" Offset Top Pivot Assembly
180 (standard)
F180 (fire rated up to 3 hours)
180-20 (20 minutes)

- (N) Bottom Arm Package
(Includes C, D and
attaching screws)
252050R* (RH)
252050L* (LH)

- (L) Spindle Adapter Package
includes shim socket screw
and washer 4007-XXA

- (I) Floor Plate with Screws
4000500R*XXE (RH)
4000500L*XXE (LH)

- Extended Spindles
Spindle Adapters:
- 4007-XXC 1/2" extended
 - 4007-XXE 1" extended
 - 4007-XXG 1-1/2" extended
 - 4007-XXI 2" extended

- (J) Closer Body
(Specify Complete
Model No. x LAP)

- (K) Cement Case with Screws
4000301

- For 51 x 1-1/2" Offset
180x1-1/2" (standard)
F180x1-1/2"
(fire rated up to 3 hours)
180-20x1-1/2"
(20 minutes)
1-1/2" Offset Arm x
Locking Screw
275167-*
- 1-1/2" Offset Bottom
Arm pkg
252060-*

*specify finish

SCREW KITS

- 180 Screw Kit
107014 Machine (2) Req
107114 Wood (2) Req
- Arm Screw Kit
107044 Machine
107144 Wood
- Floor Plate Screw Kit
107004-*
- Cement Case Screw Kit
107075



3/4" OFFSET HUNG

Model Q51/QT51

Application

- Interior Doors
- Weight to 250 lbs.*
- Door Width up to 4'0" (1219mm)
- 1-3/4" doors only

Features

- Single Acting
- Handed
- 180 top pivot included
- For arch top doors, consult factory
- One M19 intermediate pivot included

Note: Closer cannot be ordered without the intermediate pivot

- Order spring sizes 3 through 5

Model	Door Width
Q (QT) 5103	36" (914mm)
Q (QT) 5104	42" (1067mm)
Q (QT) 5105	48" (1219mm)

- Surface attached bottom arm allows closer removal without demounting door
- Mortise arm with thru bolt attachment
- Available non-hold open (NBC) or automatic hold-open (ABC) specify 90° or 105°
- Doors will swing 5° beyond hold open point
- Separate and independent valves for closing speed, latch speed and backcheck
- "Q" closers have a floor plate (shown)
- For threshold applications, prefix "QT" no floor plate will be supplied
- Cycolac, rustproof cement case
- Increased depth of cement case for easy closer removal
- Vertical door adjustment
- Interchangeable spindle adapters
- Furnished with machine and wood screws
- 3/4" offset only
- Doors up to 90° (2286mm) in height should use one intermediate pivot (included). Each additional 30° (762mm) warrants another intermediate pivot
- 2-year limited warranty

Optional Features

- Delayed-action option – prefix "DA" (non-hold open only). Closer will not have backcheck
- Extended spindles available in 1/2" increments up to 2" longer than standard

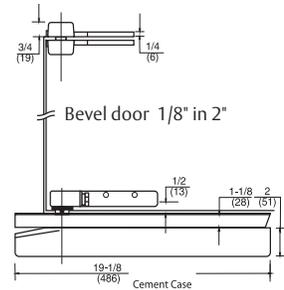
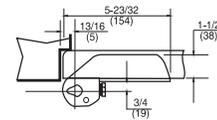
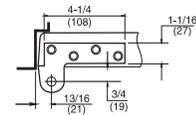
Compliance

- ANSI/C06041/C06051
- For fire rated openings (up to 3 hour assemblies), prefix "F". This package will be supplied with a steel F180 top pivot, one FM19 intermediate pivot and a non-hold open closer
- For 20-minute label doors suffix "20" to the part number



Technical Information

Frame stop required



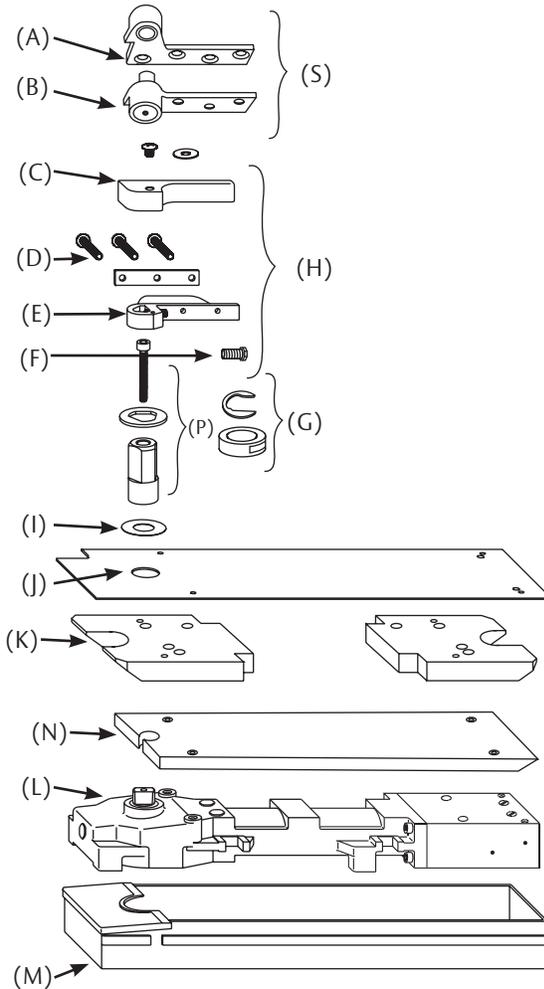
*Door size & weight guidelines are determined using the appropriate number of intermediate pivots

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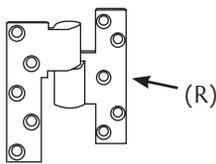
RIGHT HAND SHOWN

3/4" OFFSET

- (A) Pivot Stud
181770-ASY
- (B) Hex Cap
181778-*
- (C) Arm Cap & Screw
73035R*AS (RH, BRS)
73035L*AS (LH, BRS)
- (D) Q/QT51 Arm Mounting
Screws & Plate 73014-*
- (E) Removable Arm
73001R-ASY (RH)
73001L-ASY (LH)
- (F) Arm Locking Screw Only
88905-PKG (5)
- (G) Arm Washer & Shim Package
275179
includes shim 275065 &
275178 torque washers
- (I) Spindle Washer
519000-*



- (S) 3/4" Offset Top Pivot
180
FL180
Fire Rated
180 - 20
20 Minute
- (H) Bottom Arm Package
222050R* (RH)
222050L* (LH)
(Includes C, D, E, F)
- (P) Spindle Adapter
Package
4007-XXC
(Includes shims, socket
screw & washer)
- Extended Spindles
Spindle Adapters:
4007-XXE 1/2" extended
4007-XXG 1" extended



M19 Intermediate
Pivot

- (R) 3/4" Offset
Intermediate Pivot (1)
M19
FM19
Fire Rated
M19-20
20 Minute

SCREW KITS

- 180 Screw Kit
107014 Machine (2) Req
107114 Wood (2) Req
- Q Floor Plate Screw Kit
107010-*
- Cement Case Screw Kit
107075
- M19 Intermediate Pivot Screw
Kit
107015 Machine (2) Req
107115 Wood (2) Req

- (J) Floor Plate w/Screws
4000501R* XXE
(RH), ("BC")
4000501L* XXE
(LH), ("BC")
- (K) Q51 Styrofoam Filler
4000023
- (N) QT51 Styrofoam Filler
4000019
- (L) Closer Body
(Specify complete
model no. x LAP)
- (M) Cement Case w/
Screws 4000301

*specify finish



3/4" OFFSET HUNG

Model HM51

Application

- Interior Doors
- 1-3/4" Hollow Metal Doors & Frames
- Weight to 250 lbs.
- Door Width up to 40" (1219mm)

Features

- Single Acting
- Handed
- Designed for stock hollow metal doors and frames with standard weight 4-1/2" hinge preparation
- Three special steel 4-1/2" ball bearing standard weight hinges with 3/4" offset are included. Doors over 90" in height warrant an additional hinge.
- Order spring sizes 3 through 5:

Model	Door Width
HM5103	36" (914mm)
HM5104	42" (1067mm)
HM5105	48" (1219mm)

- Surface mounted bottom arm with thru bolts
- Available non-hold open (NBC) or automatic hold open (ABC) specify 90° or 105°
- Doors will swing 5° beyond hold open point
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cicolac, rust proof cement case
- Interchangeable spindle adapters
- Furnished with 1/2 wood and full machine screws
- 2-year limited warranty

Optional Features

- Delayed action option – prefix "DA" (non-hold open closers only). Closer will not have backcheck
- Extended spindles available in 1/2" increments up to 2" longer than standard

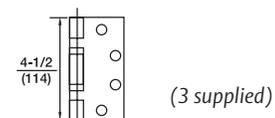
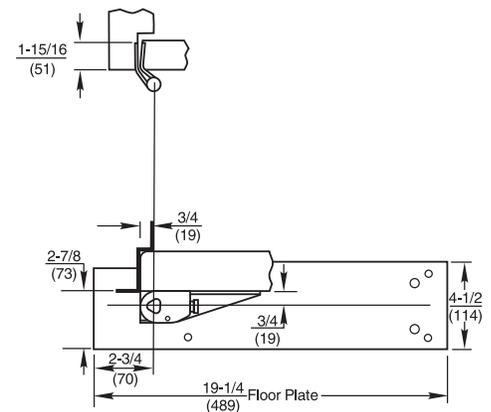
Compliance

- ANSI/C06041/C06051
- For fire rated openings (up to 3-hour assemblies), prefix "F". This package will be supplied with three steel hinges and a non-hold open closer



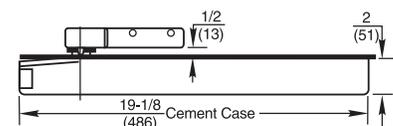
Technical Information

Frame stop required



(3 supplied)

Bevel door 1/8" in 2"

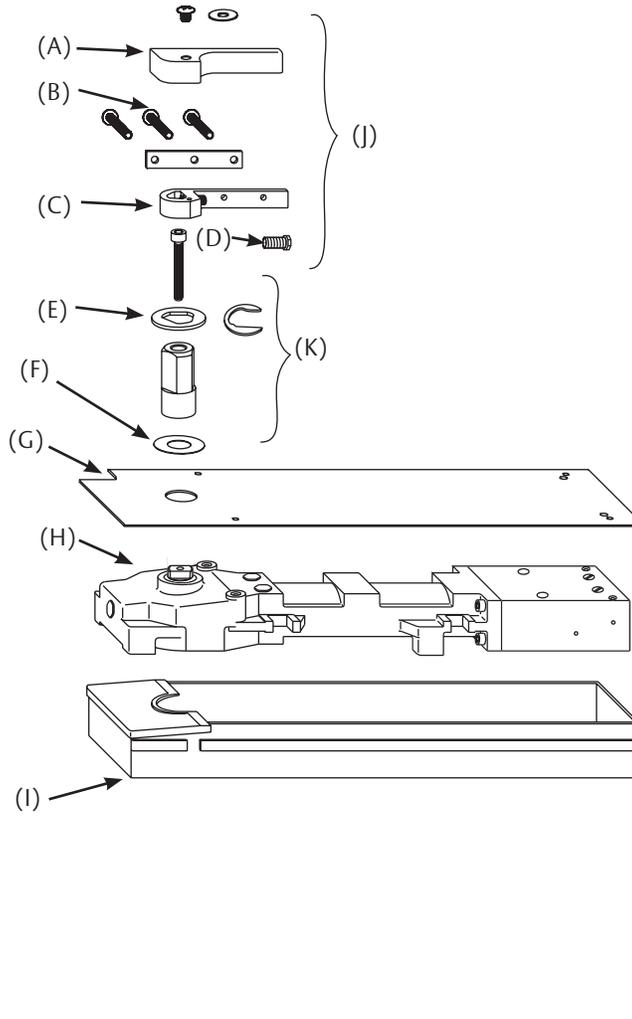


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RIGHT HAND SHOWN

3/4" OFFSET

- (A) Arm Cap & Screw
73025R*AS (RH)
73025L*AS (LH)
- (B) HM51 Arm Mounting
Screws & Plate
73014-*
- (C) Arm & Screw
73041R*AS (RH)
73041L*AS (LH)
- (D) Arm Locking Screw Only
88905 - (5)
- (E) Arm Bearing Washer
275062-PKG (5)
- (F) Spindle Washer
519000-*



- (L) Special Offset Hinges (3)
254545R*PK
254545L*PK

- (J) Bottom Arm Package
222050R*HM (RH)
222050L*HM (LH)
(Includes A, B, C)
- (K) Spindle Adapter Package
4007-XXA

Extended Spindles
Spindle Adapters:
(Includes shims, arm washer
& socket screw)

4007-XXC 1/2" extended
4007-XXE 1" extended
4007-XXG 1-1/2" extended
4007-XXI 2" extended

- (G) Floor Plate w/Screws
4000501R*XXE (RH, "BC")
4000501L*XXE (LH, "BC")
- (H) Closer Body
(Specify complete
model no. x LAP)
- (I) Cement Case with Screws
4000301

SCREW KITS

- Floor Plate Screw Kit
107004-*
- Cement Case Screw Kit
107075
- Hinge screw kit
107519-*

*specify finish



Application

- Interior Doors
- Door Width up to 4'0" (1219mm)
- Weight to 250 lbs.

Features

- Single Acting
- Handed
- Used to conceal floor closer for independently hung doors (butt hinges, pocket pivots, etc)
- Closer does not support weight of door
- Order spring sizes 3 through 5:

Model	Door Width
F5303	36" (914mm)
F5304	42" (1067mm)
F5305	48" (1219mm)

- Auxiliary stop recommended
- Includes closer, mortised rail and arm with slider
- Maximum swing 90°
- Separate and independent valves for closing speed, latch speed and backcheck
- Floor plate standard. For threshold applications a 1/2" extended spindle is required
- Cyclac rustproof cement case
- Interchangeable spindle adapters
- Furnished with wood and machine screws
- 2-year limited warranty



Note: Hanging means used must be specified when ordering. Check product template. If hanging means is not listed, contact factory for special layout and pricing.

F5310 ONLY:

- For use in 90° pocket door installations where closer is located in the pocket. Can only be used with F519 pocket pivots.
- Specially milled spindle allows positive latch speed control

Optional Features

- Not available in "DA" or hold open
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

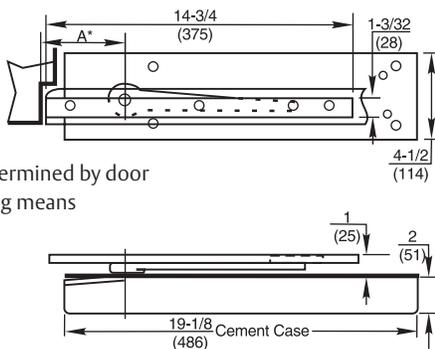
- ANSI/C06031
- This closer carries a UL listing for 3-hour fire door assemblies. Fire rated hanging means required.

Technical Information

Frame stop required

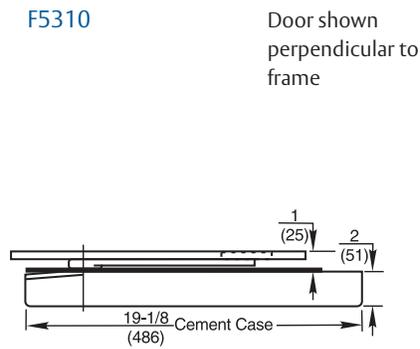
Door shown parallel to frame

F53

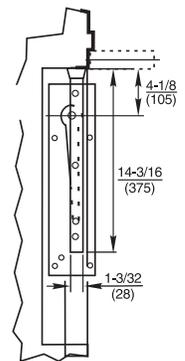


*"A" determined by door hanging means

F5310



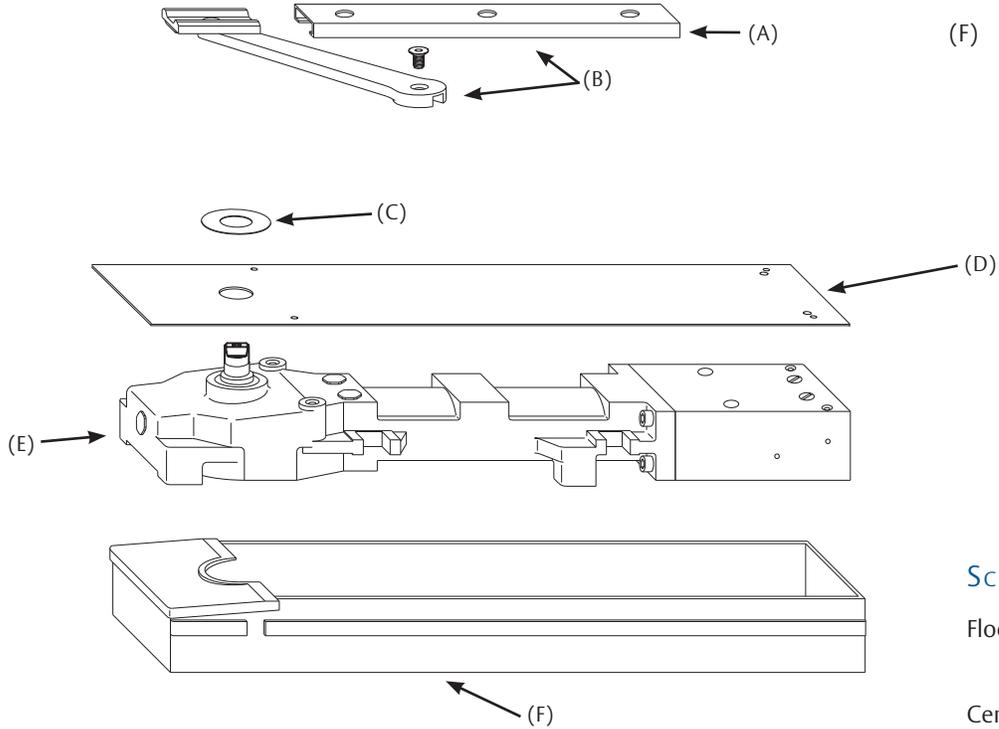
Door shown perpendicular to frame



Model F53 AND F5310

- (A) Door Rail
327006
- (C) Spindle Washer
519000-*

- (B) Bottom arm package
3252010-*
- (D) Floor Plate with screws
4000600-*XXA*
4000600-*XXE* ("BC")
- (E) Closer Body (specify
complete model no. LAP)
- (F) Cement case with screws
4000301



SCREW KITS

Floor Plate Screw Kit
107004-*

Cement Case Screw Kit
107075

Slide Track Screw Kit
107033

SPINDLE ADAPTER PACKAGE includes socket screw

Extended Spindle Adapters

4009- <i>XXC</i>	1/2" extended
4009- <i>XXE</i>	1" extended
4009- <i>XXG</i>	1-1/2" extended
4009- <i>XXI</i>	2" extended

*specify finish

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Model M19

Application

- Full Mortise
- Handed

Features

- Not load bearing (pivot has a bushing)
- Maintains door alignment
- Aids in installing closers and floor closers
- Non ferrous base material
- 3/4" (19mm) offset standard
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- For arch top doors or applications where a 180 top pivot cannot be used, supply at least two each M190 load bearing intermediate pivots, mounted together at the top of the vertical edge
- Furnished with wood and machine screws

Optional Features

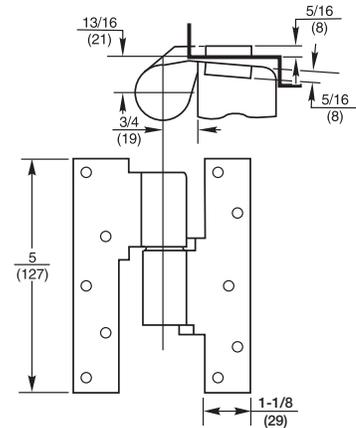
- Available in 1-1/2" (38mm) offset

Compliance

- ANSI/C07321/C07371
- Available for fire door assemblies (ferrous material) specify FM19
- For 20-minute label suffix "-20" to the part number



Technical Information



Model M190

Application

- Full Mortise
- Handed

Features

- Load bearing (pivot has a needle bearing)
- Maintains door alignment
- Aids in installing closers and floor closers
- Non ferrous base material
- 3/4" (19mm) offset standard
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- For arch top doors or applications where a 180 top pivot cannot be used, supply at least two each M190 load bearing intermediate pivots, mounted together at the top of the vertical edge
- Furnished with wood and machine screws

Optional Features

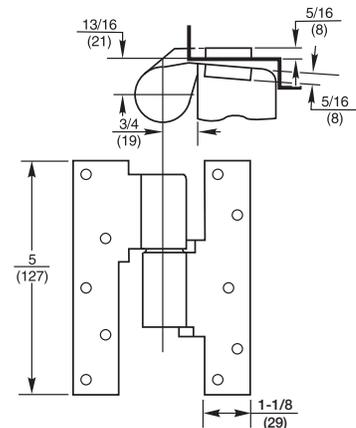
- Available in 1-1/2" (38mm) offset

Compliance

- ANSI/C07321/C07371
- Available for fire door assemblies (ferrous material) specify FM190
- For 20-minute label suffix "-20" to the part number



Technical Information



Application

- Pocket Door Pivot
- Non-Handed

Features

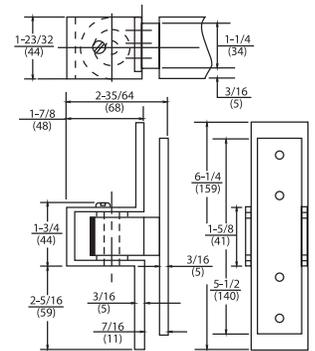
- Full mortise, pivot for pocket door applications
- Heavy-duty steel pivot with ball bearings
- Allows doors to swing 90°
- Minimum three pocket pivots per door
- Doors over 90" (2286mm) in height require four pocket pivots. Each additional 30" (762mm) warrants another pocket pivot
- Furnished with wood and machine screws

Compliance

- ANSI/A8911/C07611
- UL listed for all labeled pocket fire-door assemblies up to and including 3 hours
- Fire-rated door assemblies must have been tested with pocket pivots



Technical Information



Application

- Interior Doors
- Concealed Arm
- Weight to 250 lbs.
- Door Sizes up to 4'0" x 8'0" (1219 x 2438mm)

Features

- Single Acting
- Handed
- 340 top pivot included
- Order spring sizes 3 through 5:

Model	Door Width
5013 x 554	36" (914mm)
5014 x 554	42" (1067mm)
5015 x 554	48" (1219mm)

- Concealed arm is designed to eliminate visible adjusting screws on face of door visible adjusting screws on face of door
- Arm bolt locks arm to closer spindle – adjustment made through heel of door
- Available non-hold open (NBC) or automatic hold open (ABC) specify 90° or 105°
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cylolac, rustproof cement case
- Frame stop required at lock edge. If not supplied by frame manufacturer, recommend use of 60131 (see Door Control Accessories Catalog)
- Interchangeable spindle adapters
- Furnished with wood and machine screws
- 2-year limited warranty

Optional Features

- Delayed action option – prefix "DA" (non-hold open only) closer will not have backcheck
- Extended spindles available in 1/2" increments up to 2" longer than standard

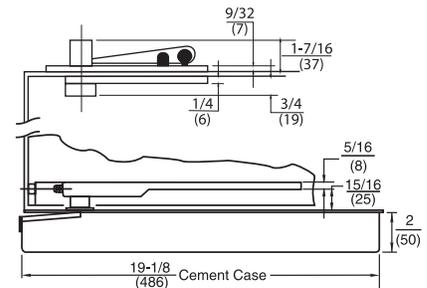
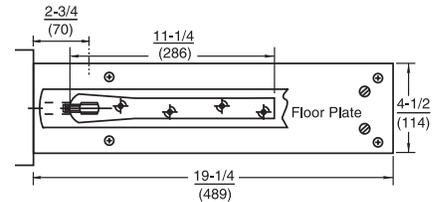
Compliance

- ANSI/C06021



Technical Information

Frame stop required at lock edge



Door edges must be radiused

Note: Center hung closers are not allowed for use on fire rated doors.



Model 50

SHALLOW DEPTH FLOOR CLOSERS SINGLE ACTING CENTER HUNG

Application

- Interior Doors
- Centering Arm
- Weight to 250 lbs.
- Door Sizes up to 4'0" x 8'0" (1219 x 2438mm)

Features

- Single Acting
 - Handed
 - 340 top pivot included
 - Order spring sizes 3 through 5:
- | Model | Door Width |
|-------|--------------|
| 5013 | 36" (914mm) |
| 5014 | 42" (1067mm) |
| 5015 | 48" (1219mm) |
- Centering arm with adjustment screws in faces of door
 - Available non-hold open (NBC) or automatic hold open (ABC) specify 90° or 105°
 - Separate and independent valves for closing speed, latch speed and backcheck
 - Available with floor plate or threshold installation (floor plate shown)
 - Cylolac, rustproof cement case
 - Frame stop required at lock edge. If not supplied by frame manufacturer, recommend use of 60131 (see Door Control Accessories Catalog)
 - Interchangeable spindle adapters
 - Furnished with wood and machine screws
 - 2-year limited warranty

Optional Features

- Delayed action option – prefix "DA" (non-hold open only). Closers will not have backcheck
- Extended spindles available in 1/2" increments up to 2" longer than standard
- Arm reinforcement bracket for wood doors prefix "W"

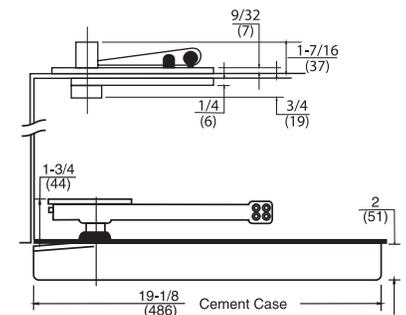
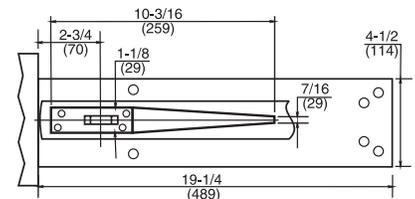
Compliance

- ANSI/C06022



Technical Information

Frame stop required at lock edge



Note: Center hung closers are not allowed for use on fire rated doors.

Door edges must be radiused

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Application

- Interior Doors
- Centering Arm
- Weight to 250 lbs.
- Door Sizes up to 4'0" x 8'0" (1219 x 2438mm)

Features

- Double Acting
- Non-handed
- 340 top pivot included
- Order spring sizes 3 through 5:

Model	Door Width
5023	36" (914mm)
5024	42" (1067mm)
5025	48" (1219mm)

- Centering arm with adjustment screws in faces of door (critical for double acting doors)
- Available non-hold open (NBC) or automatic hold open (ABC) specify 90°, 105°
- Door may only swing 130° in either direction
- Auxiliary stop required
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cicolac, rustproof cement case
- Interchangeable spindle adapters
- Furnished with wood and machine screws
- 2-year limited warranty

Optional Features

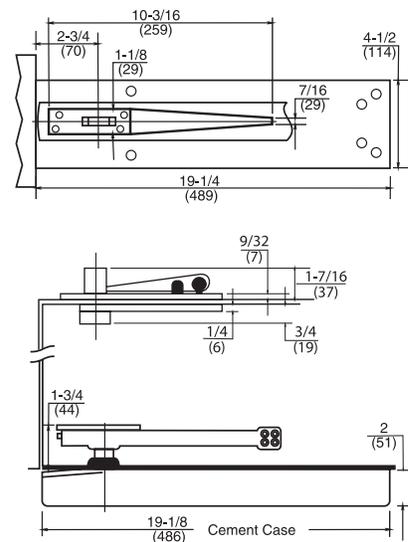
- Delayed action option – prefix "DA" (nonhold open only). Closers will not have backcheck
- Extended spindles available in 1/2" increments up to 2" longer than standard
- Arm reinforcement bracket for wood doors – prefix "W"

Compliance

- ANSI/C06012



Technical Information

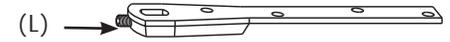
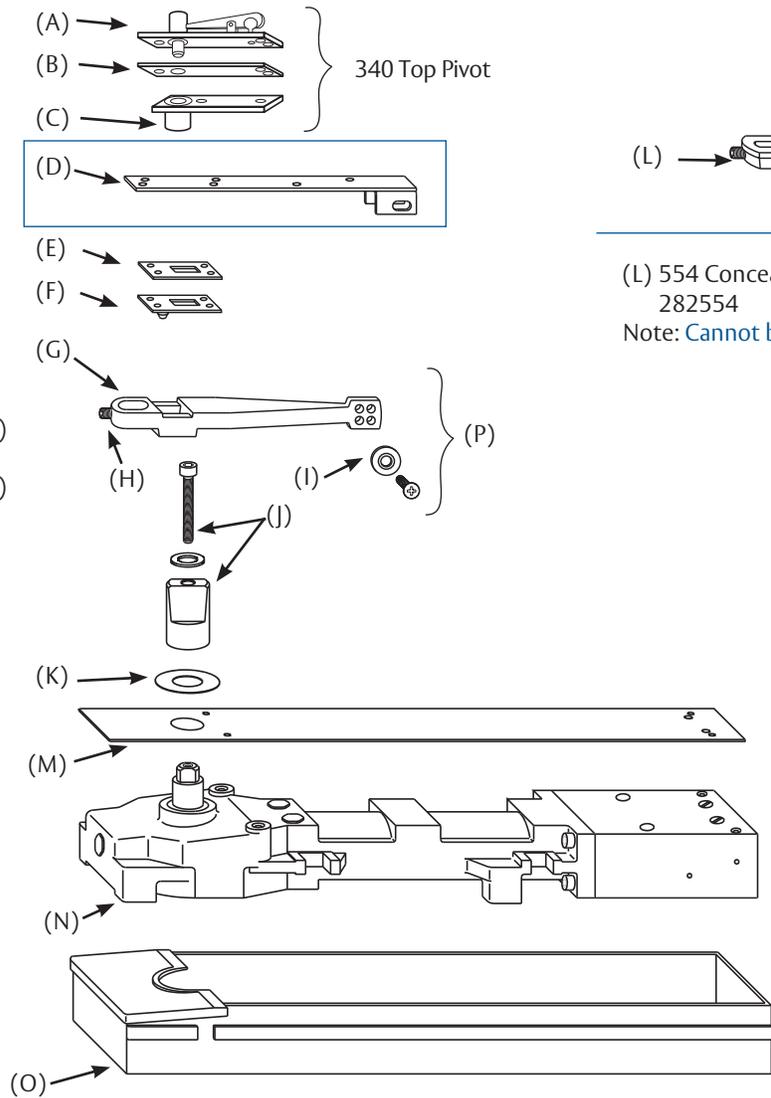


Door edges must be radiused

Note: Center hung closers are not allowed for use on fire rated doors.

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- (A) Jamb Portion
3065
- (B) Finish Plate
012202-*PK(BRS)
012204-*PK(SS)
- (C) Door Portion
30243
- (D) W28 Wood Door
Plate/Shim Pkg
107066
(Includes E and F)
Wood door arm pkg.
282126
(Includes D and G)
- (E) Arm Plate Shims (.062)
46045-PKG (5)
- (F) Arm Plate Shims (.187)
46145-PKG (5)
- (G) Arm Plate & Stud Assy
46445
- (H) Arm & Arm Set Screw
282026
- (I) Arm Set Screw Only
26087-PKG (5)
- (J) Arm Alignment
Screw & Washer
107032-*
- (K) Spindle Washer
519000-*



(L) 554 Concealed Arm Package
282554
Note: **Cannot be used on model 5020**

- (M) Floor Plate with Screws
4000600-*XXE
4000600-*XXE ("BC")
4000600-*XXI ("DA")
- (N) Closer Body
(Specify Complete
Model No. x LAP)
- (O) Cement Case with Screws
4000301
- (P) Bottom Arm Package
282026-
(Includes H, G and I)

(J) Spindle Adapter Package
4010-XXA
(Includes socket screw & shim)

- Extended Spindles
Spindle Adapters
- 4010-XXC 1/2" extended
 - 4010-XXE 1" extended
 - 4010-XXG 1-1/2" extended
 - 4010-XXI 2" extended

SCREW KITS

- 554 Arm Screw Kit
107064
- Floor Plate Screw Kit
107004-*
- Cement Case Screw Kit
107075
- 340 Screw Kit
107329 Machine
& Wood
- Arm Screw Kit
107048 Machine
107144 Wood

*specify finish



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Application

- Interior, Full Glass Doors
- Weight to 200 lbs.
- Door Sizes 3'6" x 8'0" (1067-2438mm)

Features

- Single acting
- Handed
- Special top pivot included
- Top and bottom patch fittings for tempered glass doors 3/8" - 1/2" thick
- Order spring sizes 3 and 4:

Model	Door Width
5043	36" (914mm)
5044	42" (1067mm)

- Available non-hold open (NBC) or automatic hold open (ABC) specify 90° or 105°
- Separate and independent valves for closing speed, latch speed and backcheck
- Floor plate standard. For threshold application, an extended spindle is required (floor plate shown). There is no vertical adjustment
- Cylolac rustproof cement case
- Interchangeable spindle adapters
- 2-year limited warranty

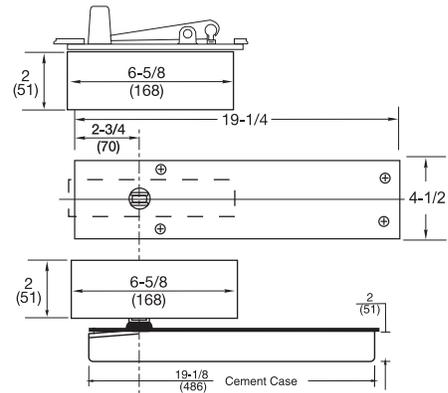
Optional Features

- Delayed action option – prefix "DA" (nonhold open only). Closers will not have backcheck. DA is not recommended for full glass doors
- For extended spindles contact factory



Technical Information

Frame stop required at lock edge



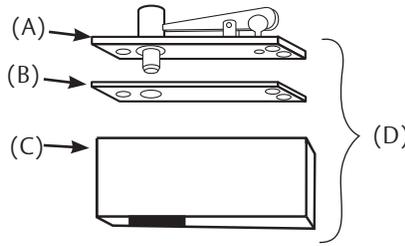
Note: 5040 closers are only available in the following finishes: 605, 629 and 630.



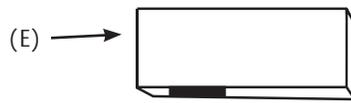
RIGHT HAND SHOWN

3/4" OFFSET

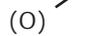
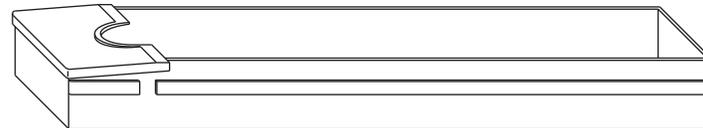
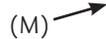
- (A) Jamb Portion
42801
- (B) Finish Plate
012202-*PK (BRS)
012204-*PK (SS)
- (C) Patch Filling
7495-*
- (J) Bottom Pivot Insert
74101
- (L) Top Pivot Insert
74102



- (D) Top Patch
7494* PK
(Includes C and L)
- (M) Floor Plate with Screws
4000600-*XXE ("BC")
- (N) Closer Body
(Specify Complete
Model No. x LAP)
- (O) Cement Case with Screws
4000301
- (E) Bottom Patch
7495*PK
(Includes C and J)



- (K) Spindle Washer
519000-*



SCREW KITS

- Floor Plate Screw Kit
107004-*
- Cement Case Screw Kit
107075
- 340 Screw Kit
Machine & Wood
107329

Application

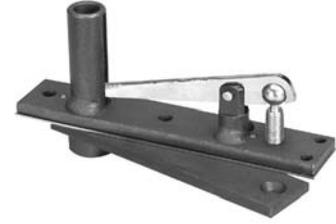
- Fully Concealed
- Non-handed
- Earthquake Tolerant
- Taller Doors (8'0" to 9'0")

Features

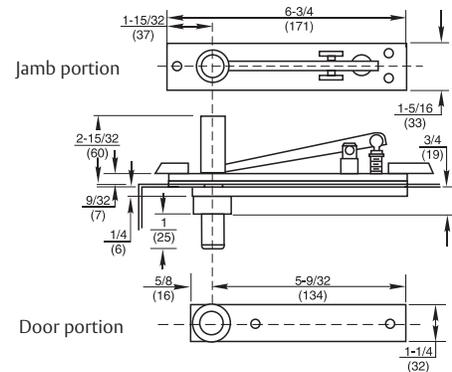
- Center Hung
- Non-Handed
- Ideal for locations where there is a fear that dramatic building settling is possible
- Long pivot pin engages in top of door 1-3/4" (44mm).
- Can be used with any center hung floor closer. Order the closer LTP (less top pivot) and the 345 top pivot separately
- Walking beam-type pivot – 1/2" (13mm) diameter pivot pin
- Oil-impregnated sintered bronze bearing
- Completely concealed when door is closed
- Furnished with wood and machine screws

Compliance

- ANSI/C07021



Technical Information



REFERENCE

Prefix	Model	Degree if Hold Open	Holding Options	General Options	Handed	Maximum Weight*
DA, F	51	90,105,180	NBC, ABC	Ext Spdl, 1-1/2 OS, -20	Yes	250
DA, F	Q/QT51	90,105	NBC, ABC	Ext Spdl, -20	Yes	250
DA, F	HM51	90, 105	NBC, ABC	Extended Spindle	Yes	250
	F53		NBC	Extended Spindle	Yes	250
	F531		NBC	Extended Spindle	Yes	250
DA	50	90,105	NBC, ABC	Extended Spindle	Yes	250
DA	5020	90,105	NBC, ABC	Extended Spindle	No	250
DA	5040	90,105	NBC, ABC	Extended Spindle	Yes	200

*Offset closer weight are for 3/4" and the use of an intermediate pivot.

HOW TO ORDER

DA Prefix	510 Model	3 Spring Size	NBC Non-Hold Open	x 1/2" Ext Spdl Suffix	x LH Hand	x 626 Finish
DA Delayed Action		3	NBC Non-Hold Open		RH Right	
W Wd Dr (center hung)		4	90ABC Automatic Hold Open		LH Left	
F Fire Rated Doors		5	105ABC Automatic Hold Open		Blank Double Acting	
	510 Offset			554 Concealed Arm		605 Bright Brass
	501 Center Hung Single Act			— Extended Spindles		606 Satin Brass
	F530 Independently Hung* Parallel to Frame			1-1/2" Offset		611 Bright Bronze
	F531 Independently Hung* Perpendicular to Frame			-20 20 Minute Label		612 Satin Bronze
	504 Center Hung Single Act with Patch Fitting			LAP Closer Body Only		613 Dark Bronze
	502 Center Hung Double Act			LFP Less Floor Plate		613E Dark Oxidized Satin Bronze - equivalent
	Q/QT510 Quick Install			LCC Less Cement Case		618 Bright Nickel
	HM510 Hollow Metal Door and Frame			LTP Less Top Pivot		619 Satin Nickel
				— Cover Pan (x depth)		622 Flat Black
				SPLO Special Layout #		625 Bright Chrome
						626 Satin Chrome
						BSP Black Suede Power

*Hanging means must be noted on purchase order.

5040 only available in 605, 629 and 630



ASSA ABLOY, the global leader in door opening solutions

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

RIXSON
ASSA ABLOY

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For a complete listing of products and applications please visit our web site.
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SPECIALTY CLOSERS

High-End Residential
High-End Security
Gate Solutions

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TABLE OF CONTENTS

General Information..... 3

How to Select Product 4

Options 5

Certifications..... 6

Limited Warranty..... 6

Specifications..... 6

Double Acting Center Hung Floor Closers

10 Duo-Chek® Closer with Hold Open 7

12 Duo-Chek® Closer 7

15 Duo-Chek® Closer with Hold Open 7

16 Duo-Chek® Closer 7

Parts..... 8

Interior Gate Closers

354 Flange Mounting 1-3/4" Gate Only 9

355 Flange Mounting 1-3/4" Gate Only 9

356 Flat Arm 10

357 Flat Arm 10

359 Independently Hung (Hanging Means by Others) 11

Parts 12-14

Security Closers

SEC27-180 Closer 15

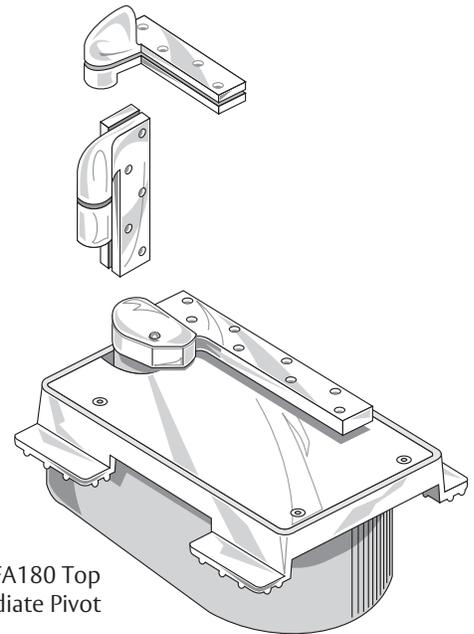
Parts 16

Exterior Gate Closers

1351 17

Quick Reference of Options 18

How to Order 19



SEC27-180 Closer with FA180 Top Pivot and FA19 Intermediate Pivot (recommended)



The closers in this section are for specific niche markets, from the high-end residential Duo-Chek® to the high-security SEC27-180 closers. No two have the same features.

Duo-Chek® Model 10, 12, 15, 16

The Duo-Chek® is for high-end residential applications, such as the double acting door going from the kitchen to the dining room.

The weight of the door is supported at bottom

- Uses laws of gravity to its advantage
- Door swings with less resistance
- Reduced stress on frame

Fasteners are in shear, not tension

- Eliminates door sag

Hardened steel spindles

- Thrust bearing supports vertical load
- Needle bearings for lateral forces
- Bottom arm directly attached to closer spindle. A mechanical advantage that increases efficiency, ensuring that ADA compliant opening forces will still close the door
- One-to-one ratio of door swing to spindle rotation makes control more precise
- Floor closers are more efficient than a regular arm surface closer

Gate Closers Models 354, 355, 356, 357, 359

Closers that mount to the side jamb for small gates such as teller gates, courtroom gates.

- Closer mounts off the floor approximately 6" under the door
- Double acting with a hold open option
- Single acting when used with butts

High-Security Models SEC27-180

These closers are used on doors in detention areas in hospitals, detention centers and non-cell prison doors. The weight of the door is supported at bottom.

- Door swings with less resistance
- Heavier doors can be accommodated
- Reduced stress on frame

Fasteners are in shear, not tension

- Eliminates door sag
- Vertically adjustable

Heavy-duty hardened steel spindles

- Designed to provide positive dead stop
- Thrust bearing supports vertical load
- Needle bearings for lateral force

Bottom arm directly attached to closer spindle

- A mechanical advantage that increases efficiency
- One-to-one ratio of door swing to spindle rotation makes controls more precise

Helical torsion spring

- Operates in same direction as door movement and contributes to even higher closer efficiency
- A torsion spring has a much longer life than standard compression springs

Advantages of security concealed floor closers

- Vandal resistant – mechanism not exposed
- Supplied with Torx® screws

Exterior Gate Closers Model 1351

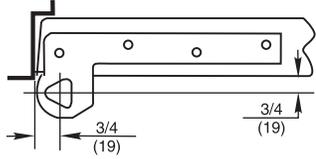
Surface closers and tracks used on high-end residential and commercial ornamental iron fencing systems that must be self-closing.

- Extremely easy to install
- Uses surface closer technology



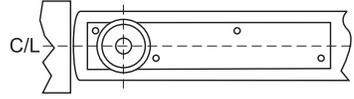
HOW TO SELECT PRODUCT

1. Offset vs. Center Hung Application



3/4" Offset

Pivot point located 3/4" from the heel edge of the door and 3/4" from face of door.



Center Hung

Pivot point centered in thickness of door. Distance from heel edge can vary 2-3/4 and up (Not for use on fire rated doors).

2. Size of Door (width, height, thickness)

Estimated door weights pounds per square foot (PSF)

DOOR MATERIAL	DOOR THICKNESS		
	1-3/4"	2-1/4"	3
Hollow Metal	6.5	7	—
Solid Core Wood	7	9	11.5
Aluminum/Glass Storefront	3.5	4	—
MDF	7	9	11.5
TEMPERED GLASS	3/8"	1/2"	3/4"
	5	7	9.75

Example: 3/0 X 7/0 X 1-3/4" WD

Door: 21sq ft x 7lb.sq ft = 147lbs

Example: 3/6 X 8/0 X 1/2" Tempered Glass Door

Door: 28sq ft x 7lb./sq ft = 196lbs

For doors of other sizes consult factory

3. Expected Frequency of Door Operation

APPLICATION	DAILY	YEARLY	
Large department store entrance	5,000	1,500,000	
Large office building entrance	4,000	1,200,000	
Theater entrance	1,000	365,000	
School entrance	1,250	225,000	High
School restroom door	1,250	225,000	
Store or bank entrance	500	150,000	
Office building restroom door	400	118,000	
School corridor door	80	15,000	Average
Office building corridor door	75	22,000	
Store restroom door	60	18,000	
Residential entrance door	40	15,000	
Residential restroom door	25	9,000	Low
Residential hallway door	10	3,600	
Residential closet door	6	2,200	



Duo-Chek® Options

Physically Handicapped – Prefix PH

To comply with ICC/ANSI A117.1 and guidelines established by the Americans With Disabilities Act, PH prefix indicates 5 lbs. of opening force.

Non-Hold Open – Suffix N

These closers do not hold the door open. This feature cannot be changed in the field.

Automatic Hold Open – Suffix A

These closers hold the door open at 90°. This feature cannot be changed in the field.

Extended Spindle – Suffix Extra Length

Any special floor coverings or severe door undercuts will affect spindle height. In these applications, an extended spindle may be required. See product template to determine if an extended spindle is needed. Extended spindles available in 1/2" increments up to 2" longer than standard.

Less All Parts – Suffix LAP

If a closer is needed for replacement, the arm, cover, cement case, top pivot and floor plate are omitted.

Less Floor Plate – Suffix LFP

When thresholds or cover pans are being used, the closer doesn't need the decorative floor plate.

Less Cement Case – Suffix LCC

For existing installations or when cement case has been sent earlier in construction. Closer will be packaged without the cement case.

Less Top Pivot – Suffix LTP

For unusual head conditions where the top pivot cannot be used, the closer is shipped without the top pivot.

Models 350 Gate Closers - No Options

SEC27-180 Options

Degree of Swing – Suffix -180

Single acting, heavy-duty floor closers have a deadstop. This means that the door cannot go past a certain point. The SEC27-180 allows the door to swing to 180°.

Non-Hold Open – SEC closers are non-hold open

Less Cement Case – Suffix LCC

For existing installations or when cement case has been sent earlier in construction. Closer will be packaged without the cement case.

Less Top Pivot – Suffix LTP

For unusual head conditions where the top pivot cannot be used, the closer is shipped without the top pivot.

Extended Spindle – Suffix Extra Length

Any special floor covering or severe door undercuts will affect spindle height. In these applications, an extended spindle may be required. See product template to determine if an extended spindle is needed. Extended spindles available in 1/2" increments up to 2" longer than standard.

Model 1351 - No Options



Certifications

The Rixson® Duo-Chek®, 350 gate closers and SEC27-180 closers are in compliance with ANSI/BHMA A156.4 standards. See individual products for sub-section.

Limited Warranty

Rixson® specialty closers, Duo-Chek®, gate closers are warranted for 2-years against defect. Rixson® specialty closer SEC27-180 is warranted 10 years against defect. See Rixson® Price Book for specific details of the limited warranty.

Specifications

Double Acting Floor Closer Specifications

All low traffic, double-acting doors shall use Duo-Chek® models 10,12,15, or 16. Closing speed adjustments can be made through the cover plate. Closers must be available in lighter springs for accessibility requirements.

Interior Gate Closer Specifications

All interior gates shall use model 350 closers. Closers shall be mounted above the floor and may be single or double acting, depending on hanging means. Closers shall have hydraulic closing speed adjustment. Units shall have built-in hold open.

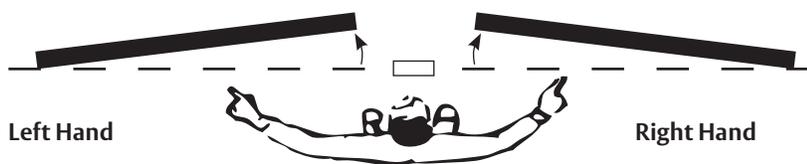
Security Closer Specifications

Closer shall be model SEC27-180 concealed floor closer package. Cement case to be cast iron with cast-in integral anchor extensions. 1/4" thick steel cover plate to be recessed into lip on cement case. Closer mechanism to have individual hydraulic cylinders for closing functions and adjustable hydraulic backcheck and be operated by a torsion spring. Closing and latch speed to be controlled by two independent valves. Closer to have built-in dead stop. Bottom arm shall be 1/2" thick steel. Top pivot shall be asylum type with Torx® security fasteners.

Exterior Gate Closer Specifications

All exterior gates shall be Rixson® model 1351. They shall be surface type with non-corrosive tracks. Track shall be two sided to keep debris from collecting. Must accommodate gates with top cross member or open spokes.

How to Determine Hand of Door



Face a door swinging open away from you. If it opens to the right, it is right handed. If it opens to the left, it is left handed.

RIXSON®
ASSA ABLOY

Models 10 & 12 Duo-Chek®

Application

- Double Acting, Non-handed
- Low/Medium Traffic Interior Doors
- Weight to 125 lbs.
- Sizes up to 2'10" x 7'0" (864 x 2134mm)



Product Description & Features

- Model 10 is 90° automatic hold open; 12 is non-hold open
- Standard top pivot: 101020 walking beam type
- Not allowed for use on labeled fire doors
- Cast iron cement case
- Adjustable closing speed
- Centering arm for adjustment
- 95° maximum opening
- 1-3/4" door thickness
- Furnished with wood and machine screws

Optional Features

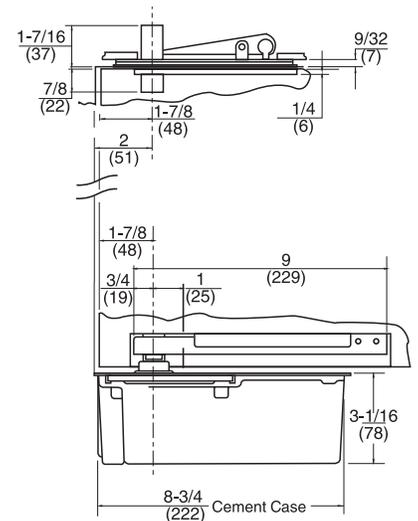
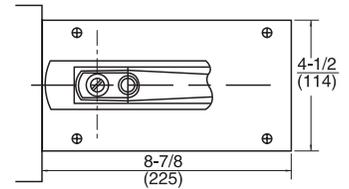
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

- Models 10 and 12 available to meet ICC/ANSI A117.1 low opening force requirements. Prefix "PH"
- ANSI C06013

Technical Information

Doors must have radiused edges



Models 15 & 16 Duo-Chek®

Application

- Weight to 125 lbs.
- Sizes up to 3'6" x 7'0" (1067 x 2134mm)

Product Description & Features

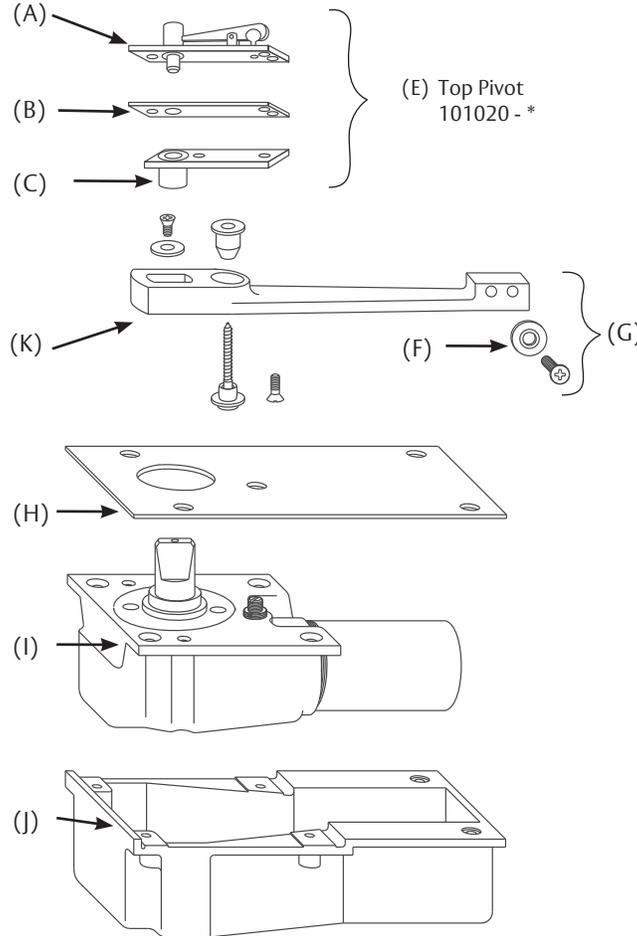
Identical to Models 10 & 12 except:

- Stronger spring to accommodate wider door
- 15 is 90° automatic hold open; 16 is non-hold open
- "PH" not available



ASSA ABLOY, the global leader in door opening solutions

- (A) Jamb Portion
3065
- (B) Finish Plate
012202-*PK(BRS)
012204-*PK(SS)
- (C) Door Portion
12716
- (F) Alignment Screws &
Washers
107032 - *
- (K) Duo Arm
1004



- (E) Top Pivot
101020 - *
- (G) Arm Package
102026 - *
(Includes K and F) and
attaching screws
- (H) Floor Plate with Screws
104020 - *
- (I) Closer Body (Specify
Complete Model No. x
LAP)
- (J) Cement Case with Screws
103000

SCREW KITS

Top Pivot Screw Kit
107329

Arm Screw Kit
107054

Floor Plate Screw Kit
107004-*

*specify finish



Model 354

Application

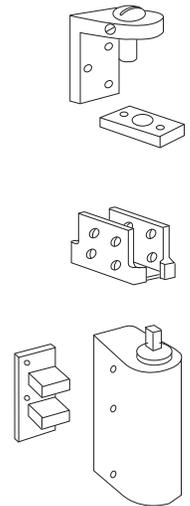
- Double Acting, Non-handed
- Maximum weight: 75 lbs.
- Dwarf doors from 2'2" to 3'0" wide (660 x 914mm)



Product Description & Features

- Recommended for office rail gates, partitions, and lavatory stall doors
- Body mounts under gate
- Surface mounted top pivot: 3541020
- 1-3/4" door thickness
- Maximum opening 90°
- Arm adjustment door normally comes to rest at closed position. If door is to remain open, arm is set on spindle so door comes to rest at 90°
- Package also includes closer bracket and flange style arm
- Frame carries full weight of door
- Quiet control; no slamming or flapping
- All moving parts enclosed and fully immersed in lubricating checking fluid
- Painted finishes only
- Not compliant with ICC/ANSI A117.1 low opening force requirements

Technical Information



Compliance

- ANSI C09053

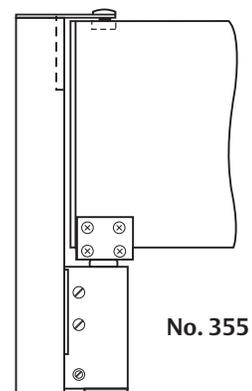
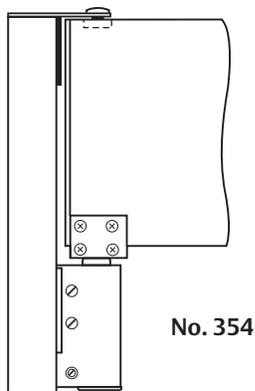
Model 355

Application

- Double Acting, Non-handed

Product Description & Features

- Identical to 354 except:
- Mortise top pivot: 3551020



Model 356

Application

- Double Acting, Non-handed
- Maximum weight: 75 lbs.
- Dwarf doors from 2'2" to 3'0" wide (660 x 914mm)



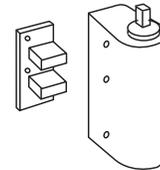
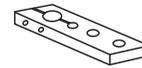
Product Description & Features

- Recommended for office rail gates, partitions, and lavatory stall doors
- Body mounts under the gate
- Surface mounted top pivot: 3541020
- 1-3/4" door thickness
- Maximum opening 90°
- Arm adjustment door normally comes to rest at closed position. If door is to remain open, arm is set on spindle so door comes to rest at 90°
- Package also includes closer bracket and arm that may be surface mounted or mortised
- Frame carries full weight of door
- Quiet control; no slamming or flapping
- All moving parts enclosed and fully immersed in lubricating checking fluid
- Painted finishes only
- Not compliant with ICC/ANSI A117.1 low opening force requirements

Compliance

- ANSI C09503

Technical Information



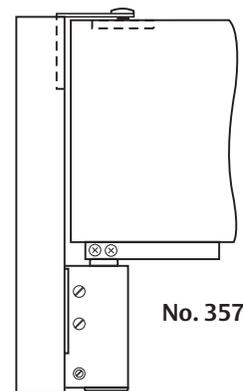
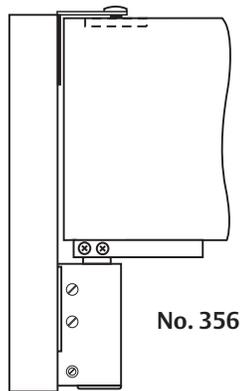
Model 357

Application

- Double Acting, Non-handed

Product Description & Features

- Identical to 356 except:
- Mortise top pivot: 3551020



Application

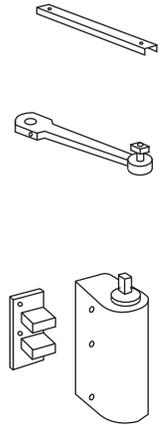
- Single Acting, Non-handed
- Maximum weight: 75 lbs.
- Dwarf doors from 2'2" to 3'0" wide (660 x 914mm)



Product Description & Features

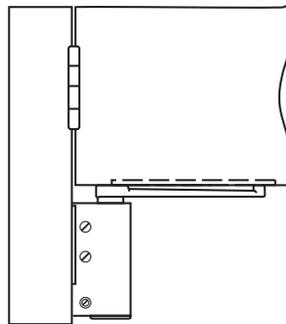
- Recommended for office rail gates, partitions, and lavatory stall doors
- Closer mounts under the door
- 1-3/4" door thickness
- Maximum opening 140°
- Surface mounted to edge of partition with edge wide enough for 1-1/2" bracket
- Butt hinges by others
- Frame carries full weight of door
- Track style arm
- Package includes closer, bracket, and slide track arm
- Painted finishes only
- Not compliant with ICC/ANSI A117.1 low opening force requirements

Technical Information



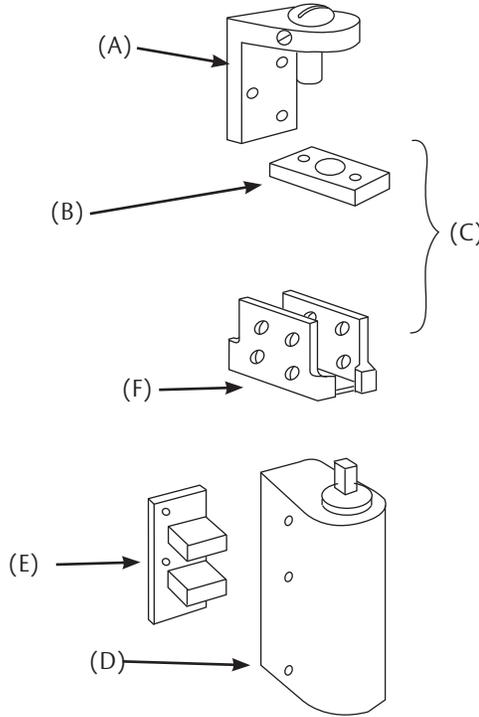
Compliance

- ANSI C09503



Model 354

- (A) Jamb Portion
01960-*AS
- (B) Gate Portion
35064-*AS
- (E) Bracket
3549000-*
(Includes Closer Mtg.
Screw Kit)



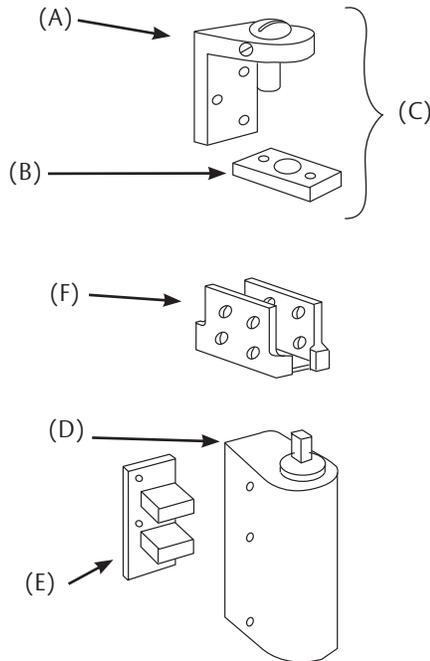
- (C) Top Pivot Package
3541020-*
(Includes A, B and
attaching screws)
- (F) Arm with Screws
3542026-*
- (D) Closer Body
X03540370-*
(Includes E)

SCREW KITS

- Top Pivot Screw Kit
107017-*
- Closer Mtg. Screw Kit
107350

Model 355

- (A) Jamb Portion
0490-*AS
- (B) Gate Portion
35064-*AS
- (E) Bracket
3549000-*
(Includes Closer Mtg.
Screw Kit)



- (C) Top Pivot Package
3551020-*
(Includes A,B and
attaching screws)
- (F) Arm with Screws
3542026-*
- (D) Closer Body
X03540370-*
(Includes E)

SCREW KITS

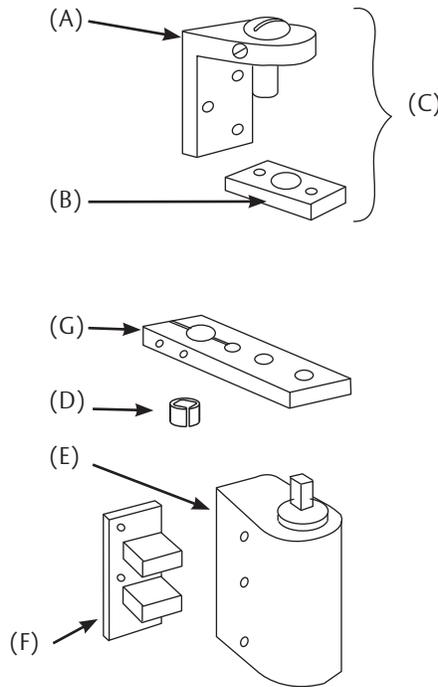
- Top Pivot Screw Kit
107017
- Closer Mtg. Screw Kit
107350

*specify finish



Model 356

- (A) Jamb Portion
01960-*AS
- (B) Gate Portion
35064-*AS
- (D) Bushing Only
35051
(Included in arm package)
- (F) Bracket
3549000-*
(Includes Closer Mtg. Screw Kit)



- (C) Top Pivot Package
3541020-*
(Includes A, B and attaching screws)
- (G) Arm with Screws
3562020-*
(Includes D and attaching screws)
- (E) Closer Body
X03540370-*
(Includes F)

SCREW KITS

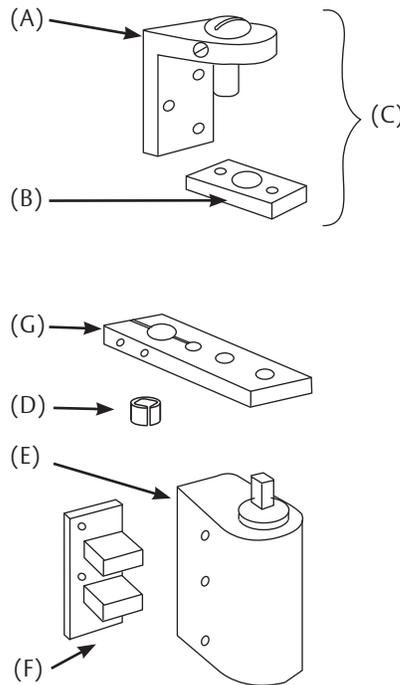
Top Pivot Screw Kit
107017 -*

Arm Screw Kit
107359

Closer Mtg. Screw Kit
107350

Model 357

- (A) Jamb Portion
0490-*AS
- (B) Gate Portion
35064-*AS
- (D) Bushing Only
35051
(Included in arm package)
- (F) Bracket
3549000-*
(Includes Closer Mtg Screw Kit)



- (C) Top Pivot Package
3551020-*
(Includes A, B and attaching screws)
- (G) Arm with Screws
3562020-*
(Includes D and attaching screws)
- (E) Closer Body
X03540370-*
(Includes F)

SCREW KITS

Top Pivot Screw Kit
107017 -*

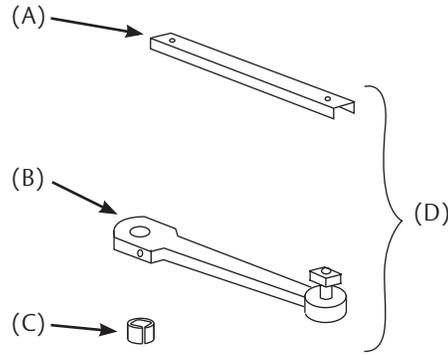
Arm Screw Kit
107359

Closer Mtg. Screw Kit
107350

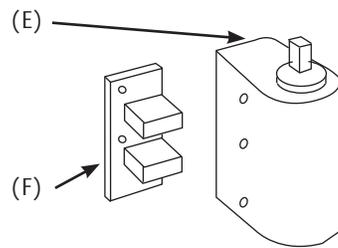
*specify finish



- (A) Rail
35510-*
- (B) Arm with Screw & Bushing
35535-*
- (C) Bushing Only
35051
(Included in arm package)
- (F) Bracket
3549000-*
- (Includes Closer Mtg.
Screw Kit)



- (D) Arm & Rail Package
3592010-*
- (Includes A, B, C and
attaching screws)
- (E) Closer Body
X03540370-*
- (Includes F)



SCREW KITS

Arm Screw Kit
107003

Closer Mtg. Screw Kit
107350

*specify finish

Application

- Single Acting, Handed
- Interior Security Doors
- Weight to 650 lbs.
- Door Width up to 4'0" (1219mm)



Product Description & Features

- Recommended for non cell doors in detention facilities or psychiatric centers
- Non-hold open only
 - FA180 top pivot included
 - FA19 intermediate pivot recommended; order separately
 - Door will swing to 180°, trim permitting
 - Built-in hydraulic backcheck at 160°
 - Cast iron cement case with cast in extensions for positive anchorage in floor
 - Solid 1/4" (6mm) thick steel floor plate
 - Cast-in lip to provide positive containment of cement case in floor
 - Sealed closer standard
 - Heavy-duty forged bottom arm
 - Adjustable closing speed
 - Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Every additional 30" (762mm) of door height warrants another intermediate pivot
 - Delayed action not available
 - Furnished with Torx® screws
 - PH option not available

Optional Features

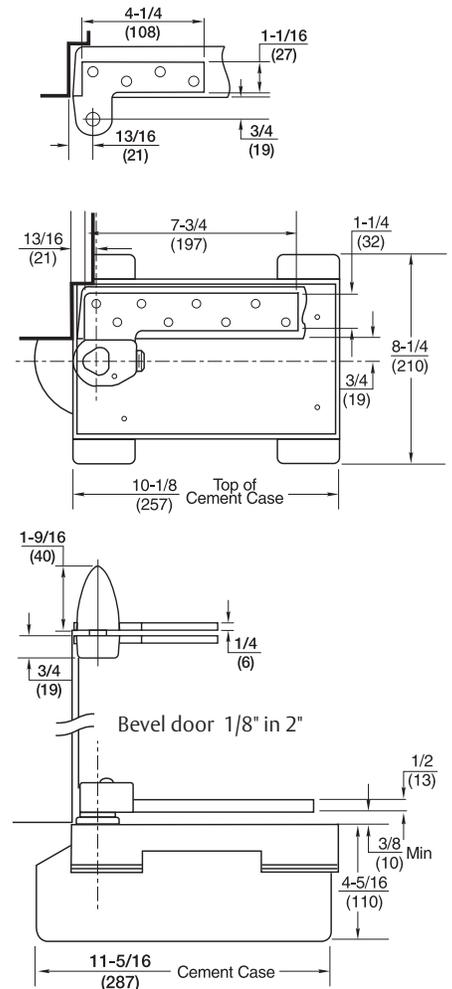
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

- This closer is for fire-rated openings (up to 3 hour assemblies). Only non-hold open closers are used. FA19 intermediate pivot required: order separately.

Technical Information

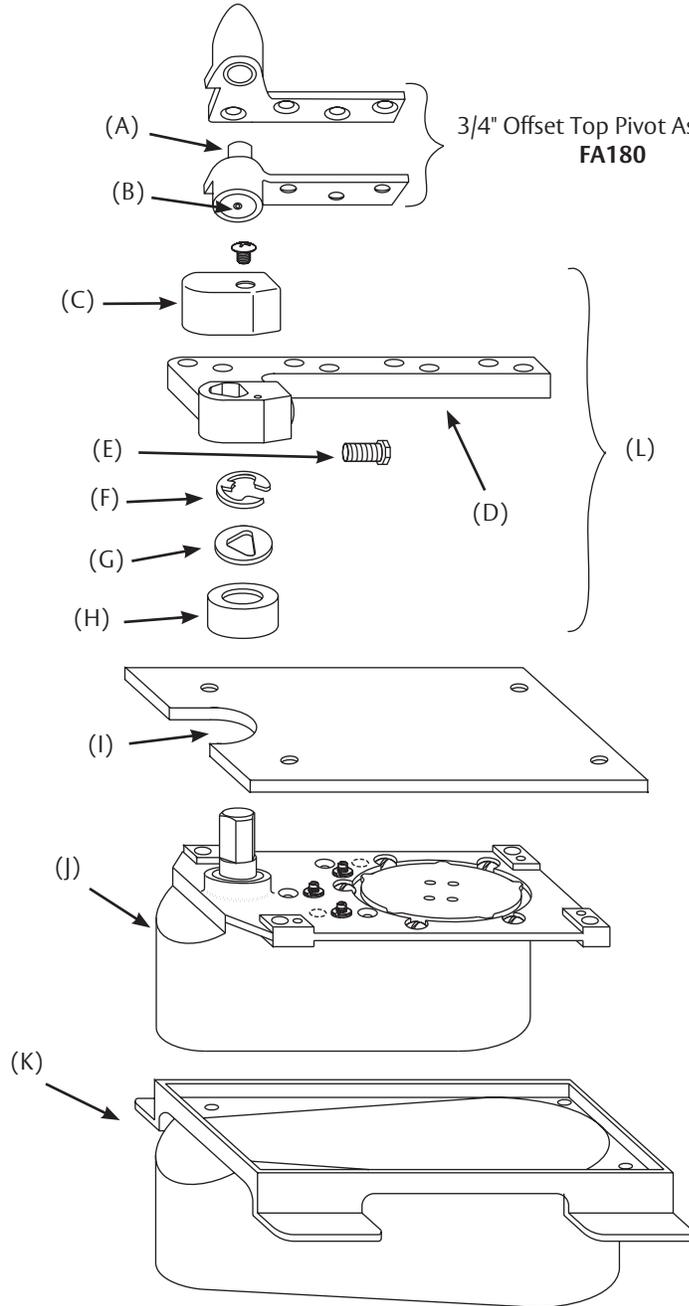
Frame stop required



Right hand shown
3/4" offset only

- (A) Pivot Stud
181770-Asy
- (B) Finish Cap
181778 -*
- (C) Arm Cap & Screw
012142R*T (RH, BRS)
012142L*T (LH, BRS)
012144R*T (RH, SS)
012144L*T (LH, SS)
- (D) Arm x Locking Screw
18550-Asy (RH)
18650-Asy (LH)
- (E) Arm Locking Screw Only
88905-PKG (5)
- (F) Arm Shims
275065-PKG (5)
- (G) Arm Bearing Washer
275062-PKG (5)
- (H) Spindle Shoulder Collar
259000 -*
- (I) Floor Plate with Screws
274056 -*
- (J) Closer Body
(Specify Complete
Model No. x LAP)
- (K) Cement Case with Screws
253001SEC

- (L) Bottom Arm Package
252056R* (RH)
252056L* (LH)
(Includes C, D, H and
attaching screws)



- FA180 Torx® Screw Kit
107014 - *T Machine (2 required)
107114 - *T Wood (2 required)
- Arm Screw Kit
107144 Machine (2 required)
107048 Wood (2 required)
- Floor Plate Screw Kit
107021 -*

*specify finish

Application

- Single Acting
- Exterior Ornamental Iron Gates
- Weight to 250 lbs.
- Gate Maximum 4'6" x 10'0"
(1372 x 3048mm)

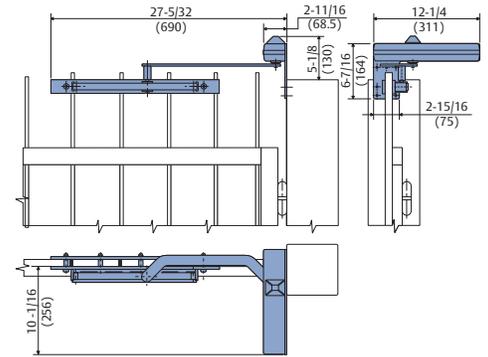


Product Description & Features

Recommended for exterior gates on high-end residences and commercial building campuses.

- Includes closer body, mounting bracket, arm and slide track
- Track has pass thru hole to avoid debris build-up
- Components are rust-resistant
- Surface closer has adjustable latch speed, closing speed and backcheck
- May be mounted on cross-member or spokes
- Hanging means by others
- All weather fluid
- All machine screws
- Black finish only

Technical Information



Quick Reference of Options

Prefix	Model	Degree of Hold Open	Holding Options	General Options	Fire Rated	Handed	Maximum Door Weight
PH	10	90	A	Extended Spindle	No	No	125
PH	12		N	Extended Spindle	No	No	125
	15	90	A	Extended Spindle	No	No	125
	16		N	Extended Spindle	No	No	125
	354	90	A		No	No	75
	355	90	A		No	No	75
	356	90	A		No	No	75
	357	90	A		No	No	75
	359		N		No	No	75
	SEC27-180		N	Extended Spindle	Yes	Yes	650
	1351		N				250

How To Order

PH Prefix	10 Model	A Hold Open	LTP Suffix	Hand	626 Finish
PH Lighter Spring (ADA) (models 10 and 12 only)		N Non-Hold Open A Automatic Hold Open	Blank RH LH	Double Acting or Non Handed Right Hand Left Hand	
10	Duo Chek® (Hold Open)		Extended Spindles		350 Gate Closer
12	Duo Chek® (Non-Hold Open)		LAP Closer Body Only		689 Sprayed Alum
15	Duo Chek® (Hold Open)		LFP Less Floor Plate		690 Sprayed Dk Brz
16	Duo Chek® (Non-Hold Open)		LCC Less Cement Case		691 Sprayed Lt Brz
354	Gate		LTP Less Top Pivot		696 Sprayed Brass
355	Gate		SPLO Special Layout #		1351 Gate Closers
356	Gate				622 Flat Black Only
357	Gate				Remainder
359	Gate				605 Bright Brass
SEC27-180	Security				606 Satin Brass
1351	Exterior Gate				611 Bright Bronze
					612 Satin Bronze
					613 Dark Bronze
					613E Dark Oxidized Satin Bronze - equivalent
					619 Satin Nickel
					622 Flat Black
					BSP Black Suede Powder

*specify finish





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CONTACT US AT:

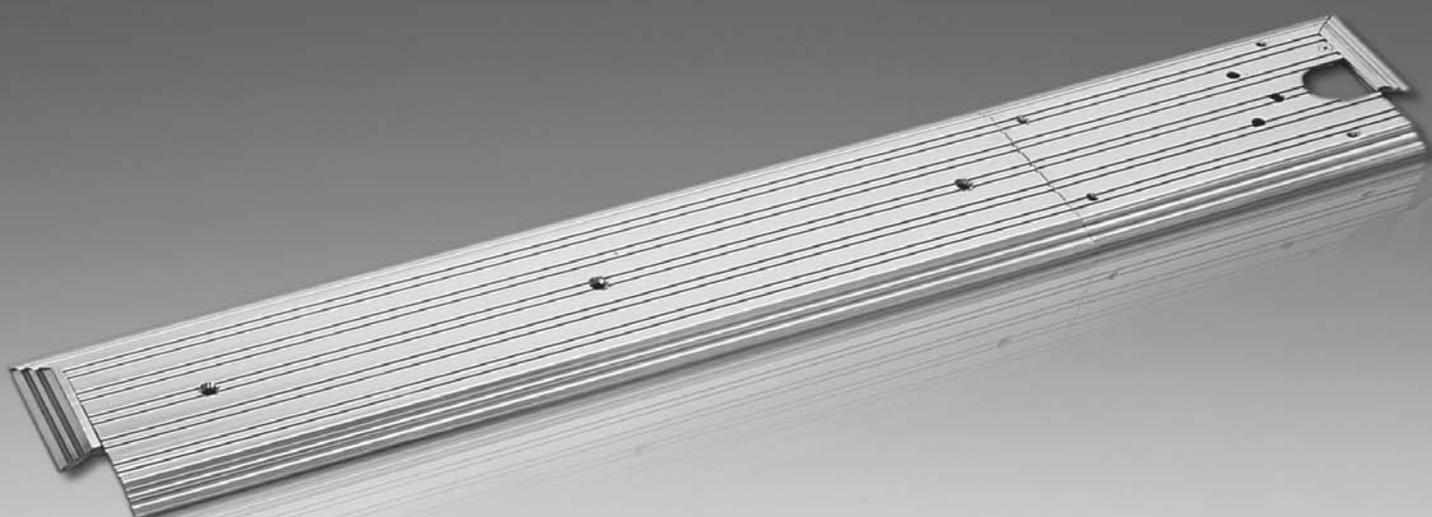
Rixson®
3000 Highway 74 East
Monroe, NC 28112
Tel: 800-457-5670
Fax: 800-221-0489

ASSA ABLOY Door Security Solutions Canada
160 Four Valley Drive
Vaughan, Ontario, L4K 4T9 Canada
Tel: 800-461-3007
Fax: 800-461-8989

For a complete listing of products and applications please visit our web site.
www.rixson.com
assaabloydss.ca

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THRESHOLDS

Finishing Touch for Floor Closer Installations

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Rixson® thresholds add the finishing touch to the concealment of floor closers and pivot sets.

When ordering thresholds with floor closers or pivots, the valve holes will be located in the correct locations and a separate section will allow access to the floor closer.

Limited Warranty

Rixson® thresholds carry a 2-year warranty for defect. There is no warranty on finish for plated items. See Rixson® Price Book for specific details of the limited warranty.

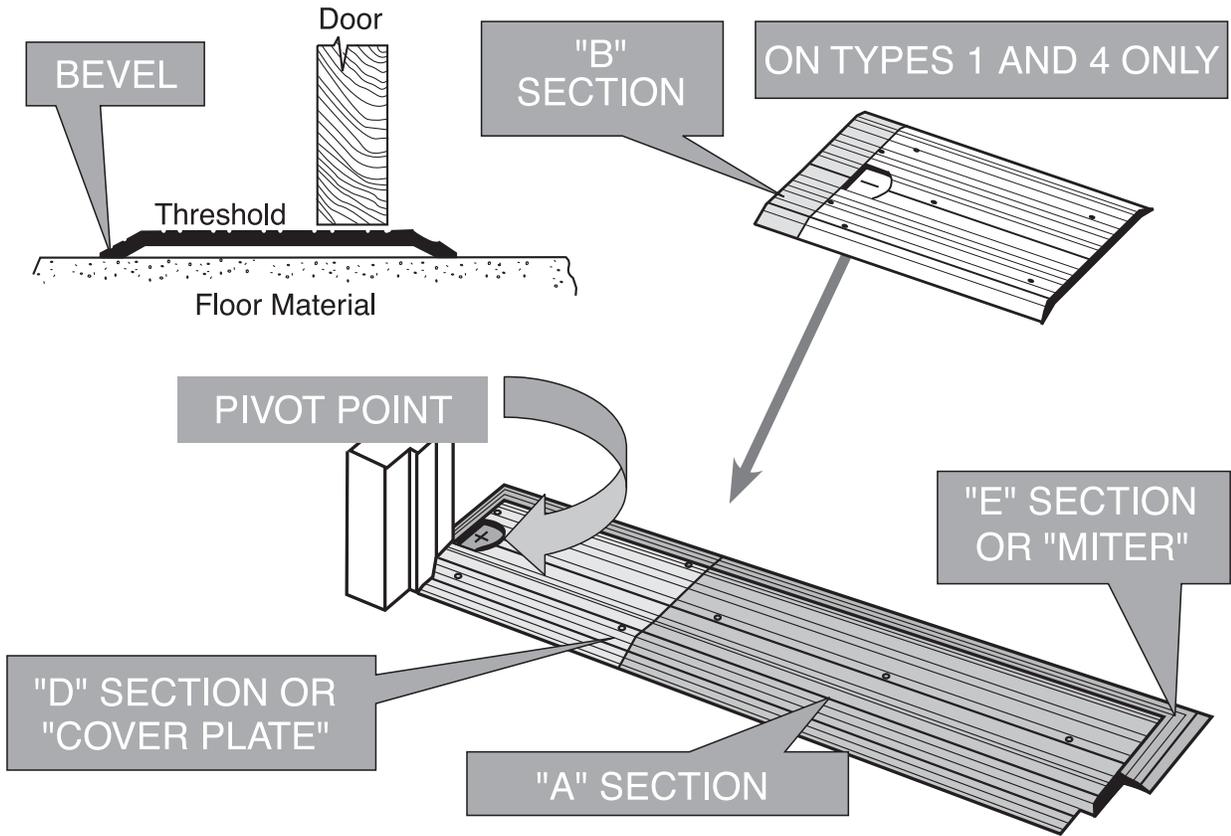
Specifications

Whenever floor closers are used with thresholds, the threshold must be furnished by the closer manufacturer. This will ensure correct valve locations. All thresholds used with floor closers shall have separate closer cover plate section.

Table of Contents

- Limited Warranty 2
- Specifications..... 2
- Definition of Terms..... 3
- Type of Hanging Means & Models**
- Center Hung Models 1 and 4..... 4
- Offset Hung Models 3 and 5 5
- Width of Threshold..... 6
- Options 7-9
- Finishes..... 10
- How to Order..... 10



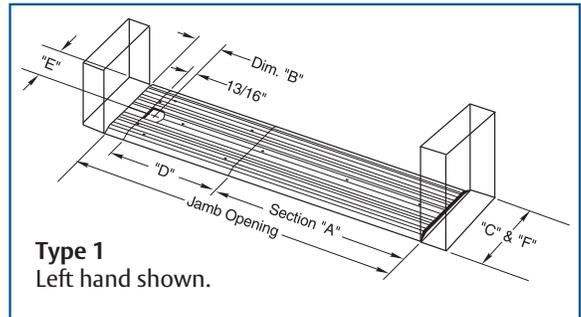


Type 1

For doors hung in center of frame

- Used with 28, H28, 30, 40, H40 and 50 series floor closers, as well as, 117-3/4 and H117-3/4 pivot sets.
- Straight ends standard
- See individual option listings for availability
- Specify length of threshold (jamb to jamb).

Technical Information

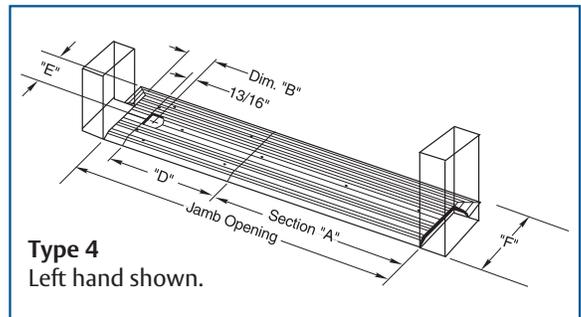


Type 4

For doors hung flush with the frame

- Used with 28, H28, F327, 30, 40, H40, 50 and F5300 series floor closers, as well as, 117-3/4 and H117-3/4 pivot sets.
- Mitered returns, standard
- See individual option listings for availability
- Specify length of threshold (jamb to jamb).
- When ordering for F327 or F5300 floor closers, specify hanging means

Technical Information



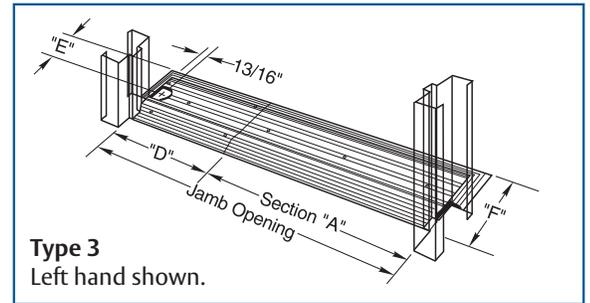
F is the dimension of the A section.

Type 3

For doors flush with the frame

- Used with 27, L27, 127, QT27, HM27, 51, QT51 and HM51 series floor closers, as well as, 117-1/2 and L117 pivot sets.
- Mitered returns, standard
- See individual option listings for availability
- Specify door thickness
- Specify length of threshold (jamb to jamb).

Technical Information



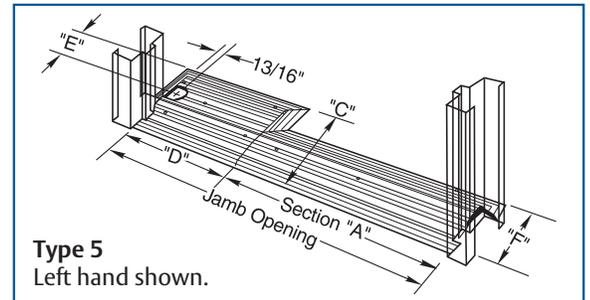
F dimension is the width of the D section

Type 5

Traditional style, for doors flush with the frame. The floor closer cover section is wider than the rest of the threshold.

- Used with 27, L27, 127, QT27, HM27, 51, QT51 and HM51 series floor closers, as well as, 117-1/2 and L117 pivot sets.
- Mitered returns, standard
- See individual option listings for availability
- Specify door thickness
- Specify length of threshold (jamb to jamb).

Technical Information

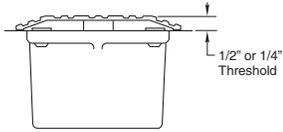


F is the dimension of the A section

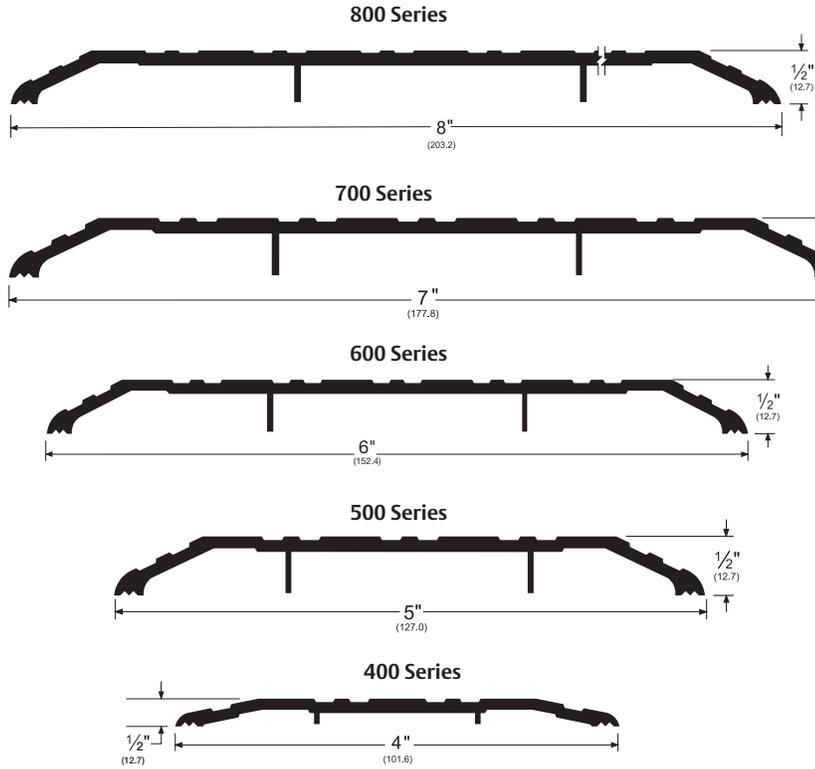
WIDTH OF THRESHOLD

The width of the threshold must be sufficient to completely cover the closer.

Aluminum or Bronze

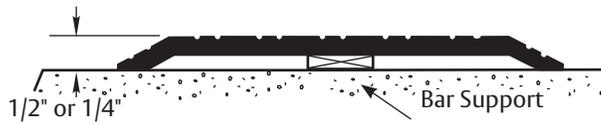


all model closers require 700 or 800 widths



Extra Wide Thresholds

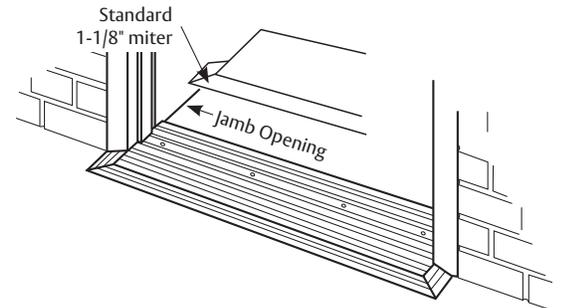
Special widths are available on request. A center bar support is provided as standard. Detailed dimensions required. Not available with Type 5.



Return Miters

Furnished on the pull side of the door. The return miter at the spindle side of the doorway is detachable for easy removal of closer plate section. Four corner miters, to enhance finished appearance, are available upon request.

Technical Information

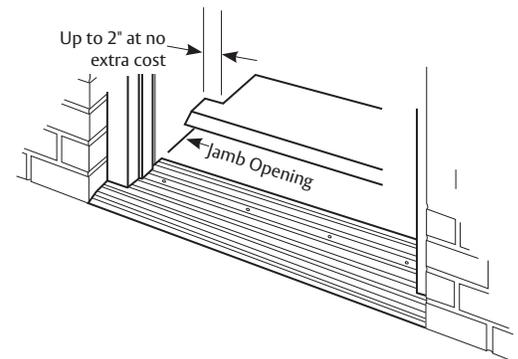


Straight Ends

When the threshold abuts a wall at the ends, straight ends up to 2" can be substituted for mitered returns at no additional cost. Provides a continuous, finished appearance.

Extended straight ends available – specify length.

Technical Information



Bevel Cut Thresholds

Standard width thresholds can be straight rip cut to achieve a flush floor condition. The threshold bevel on the interior side of the door is removed; permits threshold and carpet (or tile) to meet at the same height. A 5/16" bar support (provided) or built-up concrete sill is required. Dimensional details required.

Technical Information

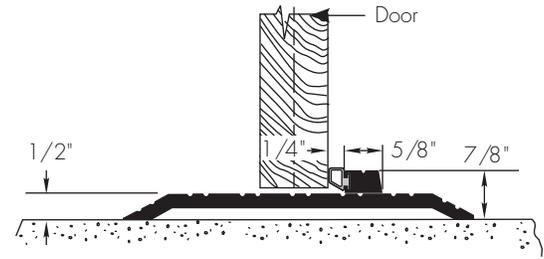


Stop strips are furnished at extra cost, when specified. On single acting doors, a stop strip is recommended to serve as a weather seal on the push side at the bottom of the door.

For use on thresholds prepared for all floor and overhead concealed single acting closers. Not available PH. On center hung openings, the stop cannot run across the entire door width. For model 800.

No. 201 Stop Strip

Technical Information

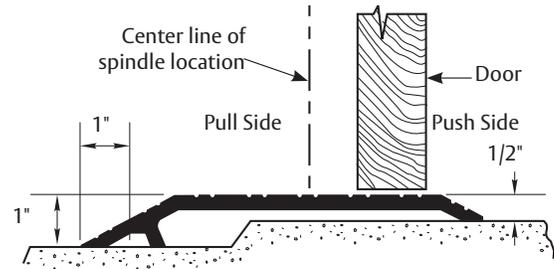


No. 201 Applied Stop Strip

Designed to accommodate sill conditions where the floor drops 1/2" below sill height. Add 1" to width of threshold. Step down strip may be applied to either push or pull side of thresholds. Not available on Type 5 thresholds. Not available PH.

No. 301 Step Down

Technical Information



No. 301 Step Down Strip

Designed to accommodate sill conditions where the floor drops 1/4" below sill height. Add 1" to width of threshold. Step down strip may be applied to either push or pull side of thresholds. Not available on type 5.

No. 501 Step Down

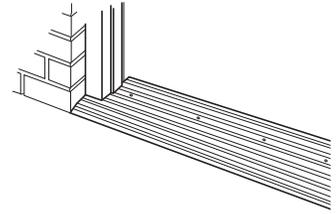
Technical Information



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Thresholds for Overhead and Surface Door Closers

Straight threshold lengths, with or without miters or straight ends, are available for 700 or 800 overhead concealed closers, or any manufacturer's surface and overhead concealed closer. When ordering, state NO CLOSER PREP.



Anchoring

Thresholds are drilled for installation. They are furnished with wood screws and lead anchors as standard. If machine screws and expansion shields are required, specify "MSES."



Adjusting Valve Fillers

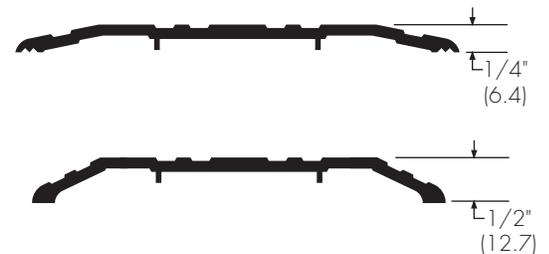
Used to keep debris from filling adjusting holes, suffix "filler". If ordered separately, specify 11102011. This is for product manufactured after 2010.



Low Rise Thresholds

Where Rixson's standard 1/2" height might be a hindrance for access by users with disabilities, a 1/4" high version is available on some products. Specify PH.

PH is not available with series 5 thresholds and products with the 201 stop strip.



Thresholds are aluminum or bronze.

When considering thresholds, remember that they are being walked on, rolled over and rained upon. This means that the finish you decide to use can be dramatically affected by those conditions.

The most forgiving base metal is aluminum. Mill aluminum does not tarnish or darken in time. Mill bronze darkens after awhile and the end result is a dark oxidized appearance.

Plated finishes on thresholds are not advisable. Lacquer, which is applied to plated thresholds, can be easily scratched. If a plated threshold is ordered, the finish will not be covered under warranty.

Special Drawings

If configuration, other than standard, is required, complete detail drawings must be supplied. Allow extra time for approved drawings to be returned. Thresholds will be quoted after factory drawings are approved.

How To Order

PH Prefix	3 Type	x 700 Width	x 501 Option	x 36" Door Opening Width	x 1-3/4" Door Thickness	x RH Hand	x 27N Closer	x AL Finish
Blank = 1/2 high PH = 1/4 high (models 700 and 800 only)	1 = Center hung 3 = Offset hung 4 = Center hung 5 = Offset hung		Blank = No options 201 = For use with model 800 only 301 = Not available in type 5 501 = Not available in type 5 No Closer Prep = attaching screw holes only			Blank = Pair RH = Right hand LH = Left hand		AL Aluminum BZ Bronze 605 Bright Brass 606 Satin Brass 613 Dark Bronze BSP Black Suede Powder
		400 = 4" (used with #5 or without floor closer) 500 = 5" (used with #5 or without floor closer) 600 = 6" (can't be used with #5 or with floor closer) 700 = 7" 800 = 8"						





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Fax: 800-461-8989

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CONDENSED CATALOG

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DOOR CLOSERS CONCEALED IN THE FLOOR

Model 27 (Offset Hung) and Model 28 (Center Hung) install in the concrete beneath the surface of the floor for total concealment. They feature heavy-duty hydraulic mechanism for reliable, consistent performance.

Model 27 (Offset Hung) is installed to provide a pivot point 3/4" from the face of the door and 3/4" from the heel edge of the door. Model 28 (Center Hung) is installed 2-3/4" from the door frame. Both models are single acting (opening in one direction only).

Both models come complete with a bottom arm, top pivot, cement case and floor plate. Intermediate pivots are recommended for total door alignment on offset hung models.



Specify "PH" prefix to meet A.D.A. requirements, ICC.ANSI 117.1 on interior doors for any model listed below. Note PH27 and PH28 are designed specifically to meet handicapped requirements of 5 pounds of opening force on interior doors. For 8-1/2 pounds of force prefix "PH" and suffix "8-1/2". Note that doors over 350 lbs. will probably not achieve 5 lbs. of opening force.

27 Floor Closer



H28 Floor Closer



Model Number	Best Suited For...	Maximum Door Weight	Degree of Opening & Dead Stop	Special Features Available
27	Heavy Weight/Traffic Doors	450 lbs.	85°, 90°, 95°, 105°, 180°	Selective, Automatic (180° only) or Non-Hold Open
L27	Lead Lined or Extra Heavy Weight/Traffic Doors	1,500 lbs.	85°, 90°, 95°, 105°, 180°	Selective, Automatic (180° only) or Non-Hold Open
F27	Labeled Fire Doors	450 lbs.	85°, 90°, 95°, 105°, 180°	Non-Hold Open
Q27	Heavy Weight/Traffic Doors	350 lbs.	85°, 90°, 95°	Closer Removable Without Demounting Door-Side Jamb M19 Pivot Included
HM27	Hollow Metal Doors	250 lbs.	85°, 90°, 95°	Butt Hung (3/4" offset)
FHM27	Labeled Fire Doors	250 lbs.	85°, 90°, 95°	Butt Hung (3/4" offset)
DA27	Heavy Traffic Doors	450 lbs.	85°, 90°, 95°, 105°	Adjustable Delay From 90° to 70°
28	Heavy Weight/Traffic Doors	350 lbs.	85°, 90°, 95°, 105°	Selective or Non-Hold Open
H28	Extra Heavy Weight/Traffic Doors	1,000 lbs.	85°, 90°, 95°, 105°	Selective or Non-Hold Open
428	Tempered Glass Doors with Patch Fittings	325 lbs.	85°, 90°, 95°, 105°	Selective or Non-Hold Open
DA28	Heavy Traffic Doors	350 lbs.	85°, 90°, 95°, 105°	Adjustable Delay From 90° to 70°

Standard features include separate hydraulic latch, stroke and backcheck adjusting valves and built-in positive dead stop to exceed ANSI Grade 1 standards.

See our Heavy-Duty Offset and Center Hung Floor Closers catalog section for specific models, functions and optional features.



DOOR CLOSERS CONCEALED IN THE FLOOR

Rixson offers other specialized floor closers featuring exceptional durability, vandal-resistant concealment and minimal maintenance. The chart below identifies these closers and their operational features. Accessories are available for these closers and can be custom designed to accommodate any special condition.



*Specify "PH" prefix to meet A.D.A. (ICC/ANSI 117.1) requirements on interior doors for 30, 40, H40, 10, and 12. These are designed to specifically to meet handicapped requirements of 5 pounds of opening force

Model Number	Best Suited For...	Maximum Door Weight	Degree of Opening & Dead Stop	Closer Type	Cement Case Depth
50	Medium Traffic Interior Doors	250 lbs.	105° trim permitting	Center Hung Single Acting or Double Acting	2"
51	Medium Traffic Interior Doors	250 lbs.	180° trim permitting	Offset Hung Single Acting	2"
53**	Medium Traffic Interior Doors	250 lbs.	90°	Independently Hung Single Acting	2"
30*	Medium Traffic Exterior and Interior Doors	200 lbs.	100° trim permitting	Center Hung Double Acting	3-5/8"
40*	Heavy Exterior and Interior Doors	300 lbs.	100° trim permitting	Center Hung Double Acting	4-1/16"
10*	Light Traffic Interior Doors	125 lbs.	90°	Center Hung Double Acting Hold Open	3-1/16"
12*	Light Traffic Interior Doors	125 lbs.	90°	Center Hung Double Acting Non-Hold open	3-1/16"
15	Light Traffic Interior Doors	125 lbs.	90°	Center Hung Double Acting Hold Open	3-1/16"
16	Light Traffic Interior Doors	125 lbs.	90°	Center Hung Double Acting Non-Hold open	3-1/16"
350	Interior Gate Closer	75 lbs.	90° (Model 359 = 140°)	Pivot Hung or Butt Hung Single acting	Surface Mount
1351	Exterior Gate Closer	250 lbs.	100°	Pivot or butt hung	Surface Mount

"H" Models are available on the 40 series closers for extra-heavy interior doors.

"F" Models for labeled doors available on 51.

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in door opening solutions

DOOR CLOSERS CONCEALED IN THE HEAD OF THE FRAME

700/800 Series, Model 91, Models 608, 0608



Model Number	Best Suited For...	Maximum Door Weight	Maximum Door Size	Closer Type
608	Light Weight Doors	200 lbs.	3'8" x 8'0"	Center Hung/Single or Double Acting
0608	Light Weight Doors	200 lbs.	3'8" x 8'0"	Offset Hung
91	Medium to Heavy Weight Doors	250 lbs.	4'6" x 8'0"	Offset Hung
700	Medium Weight Doors	200 lbs.	3'8" x 8'0"	Center Hung/Single Acting
800	Medium Weight Doors	200 lbs.	3'8" x 8'0"	Center Hung/Double Acting

THRESHOLDS

Thresholds help protect doorways and provide an attractive, finished look to the door opening. Rixson® thresholds can be readily used with all types of door closing mechanisms. See our catalog section entitled "Thresholds" for specific models and sizes. Base metals are aluminum and bronze. Also available in plated finishes.



(3 x 700 shown)



Prefix PH on certain models. this is a 1/4" high product

ENGINEERED SOLUTIONS

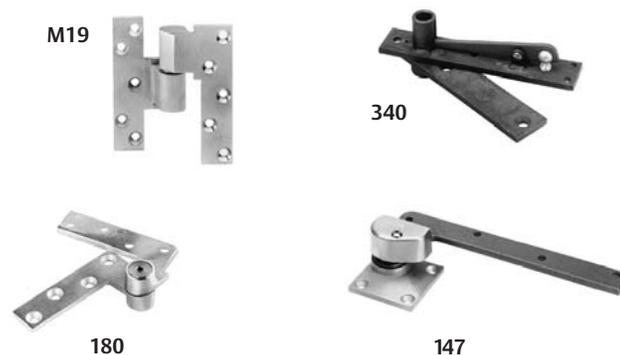
Custom hardware designed with your unique and unusual situations are available. Since these products are not catalogued, consult Rixson's design consultants to help you select the products you need.



Superior Door Hanging

Pivot sets have been recognized for years as the best way to hang a door because the weight of the door is supported by the floor instead of the door frame. Pivot sets are available for doors weighing up to 1,500 pounds. (Intermediate pivots must be used with the F Series and are recommended for all applications.) If your specific requirements are other than those shown in the chart below, contact your local Rixson representative or Technical Product Support for information on customized applications. Pivot sets include both top and bottom pivots. Intermediate pivots are recommended for offset applications.

Pivots for electric power transfer and door position indicators are available for both offset and center hung applications.



Model Number	Best Suited For...	Maximum Door Weight	Maximum Door Size	Mounting
OFFSET HUNG PIVOTS				
147*	Heavy Traffic Exterior and Extra Heavy Interior Doors	600 lbs.	3'6"	Surface of Floor
L147*	Lead-Lined and Extra Heavy Interior and Exterior	800 lbs.	3'6"	Surface of Floor
195	Heavy Traffic Exterior and Interior Doors	450 lbs.	4'0"	Side Jamb
117-1/2*	Heavy Traffic Exterior and Interior Doors	650 lbs.	4'0"	In Floor
L117*	Lead-Lined and Extra Heavy Interior and Exterior Doors	1750 lbs.	4'0"	In Floor
173	Light-Duty Interior Doors	175 lbs.	3'6"	Concrete Floor
117*	Interior Doors; Pivot Mounts on Floor	300 lbs.	3'6"	In Floor
117-1/4	Interior Doors; Pivot Mounts Directly to Side Jamb	250 lbs.	3'6"	Side Jamb
M19*	Intermediate Pivot	N/A	N/A	Full Mortise
ML19*	Intermediate Pivot for Lead-Lined Doors	N/A	N/A	Full Mortise
F519	Intermediate Pocket Pivot	N/A	N/A	Full Mortise
CENTER HUNG PIVOTS				
117-3/4	Exterior and Interior Doors	600 lbs.	4'0" x 8'6"	In Floor
H117-3/4	Lead-Lined and Extra-Heavy Interior and Exterior Doors	1000 lbs.	4'0" x 8'6"	In Floor
176	Light-Duty Interior Doors	175 lbs.	3'0"	Concrete Floors
127-3/4	Mounts to Side Jamb. For Lightweight Interior Swinging Doors	200 lbs.	3'6" x 8'6"	Side Jamb
128-3/4	Mounts on Floor. For Lightweight Interior Inswinging Doors	250 lbs.	3'6" x 8'6"	Surface of Floor
370	Mounts on Floor. For Exterior and Interior Doors	500 lbs.	3'6" x 8'6"	Surface of Floor

*F Series available for Labeled Doors.

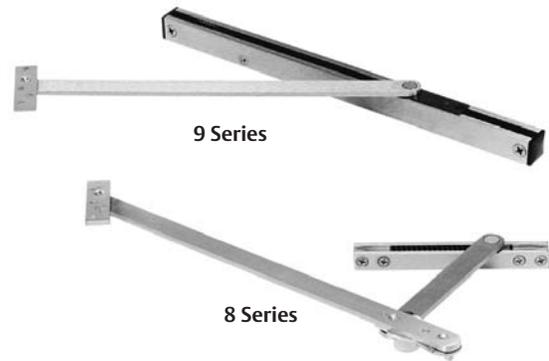
RIXSON[®]
ASSA ABLOY

ASSA ABLOY, the global leader
in door opening solutions

DOOR HOLDERS AND STOPS

Proper door control through the use of a combination door holder/stop minimizes damage to the door and frame, walls and any glass in the door. Maintenance free, these rugged devices provide shock-absorbing door stopping power and convenient hold-open capabilities. When teamed with concealed floor closers, they provide top-to-bottom door control.

Standard duty models are shipped for multi-function installation, hold-open, stop or friction stay.



Model Number	Best Suited For...	Maximum Door Opening	Special Features
2 Series	Medium Traffic Concealed Holder and Stop for Interior Doors	110°	Multi-Function
10 Series	Medium Traffic Surface Holder and Stop for Interior Doors	110°	Multi-Function
1 Series	Heavy-Duty Concealed Holder and Stop for Heavy Traffic Interior and Exterior Doors	110°	Hold-Open, Stop Only or Friction
8HD Series	Pivot type Heavy-Duty Surface Holder and Stop for Heavy Traffic Interior and Exterior Doors	110°	Hold-Open or Stop Only
9 Series	Heavy-Duty Surface Holder and Stop for High-Traffic Interior and Exterior Doors	110°	Hold-Open, Stop Only or Friction
6 Series	Heavy-Duty Concealed Low Profile Stop for Interior and Exterior Doors	110°	Stop Only

SMOKE-ACTUATED DOOR CLOSERS

Rixson-Firemark pioneered the development of smoke-actuated door controls. Smok Chek® VI are designed as a combination smoke detector, door holder/release, and door closer.

This is a Fire/Life Safety product.

Smok-Chek® VI available in free swing and double egress arms (prefix FS or DE).

Smok-Chek® VI



Smok-Chek V Model	Mounting	Degree of Opening	Detected
0600	Pull Side	145°	No
0601	Push Side	135°	No
0602	Pull Side Holder	180°	No
Smok-Chek VI Model	Mounting	Degree of Opening	Detected
4Pull	Pull Side	175°	No
6Pull	Pull Side	175°	Yes
4Push	Push Side	170°	No
6Push	Push Side	170°	Yes

ELECTROMAGNETIC DOOR HOLDER/RELEASES

Electromagnets are designed specifically to hold fire and smoke barrier doors open until released by a remote smoke detector or other switching device. The complete assembly consists of an armature contact plate with adjustable pivot mounting for installation on the door and a heavy-duty electromagnet mounted on the wall or floor behind the door units have tri-volt coils to accommodate 12VDC/24AC/DC and 120VAC.

9997M



Model Number	Best Suited For...	Total Projection	Holding Power
990M	Wall Mounted (Concealed Wiring)	1-13/16"	30-40 lbs.
994M	Wall Mounted (Concealed Wiring)	3-3/4"	30-40 lbs.
997M	Wall Mounted (Concealed Wiring)	2-5/8"	30-40 lbs.
998M	Wall Mounted (Concealed Wiring)	3-5/8"	30-40 lbs.
999M	Wall Mounted (Concealed Wiring)	4-3/8"	30-40 lbs.
996M	Wall Mounted (Surface Wiring)	4-1/8"	30-40 lbs.
980M	Floor Mounted (Concealed Wiring)	6-5/8" (Single Door)	30-40 lbs.
981M	Floor Mounted (Concealed Wiring)	8-1/4" (Double Door)	30-40 lbs.
972	Industrial Doors	972H (Swinging Doors) 972S (Sliding Doors) 972U (Overhead Doors)	75 lbs.
993	Wall Mounted (Heavy-Duty Doors)	5-1/4"	300 lbs.

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ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

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For a complete listing of products and applications please visit our web site.
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