

ASSA ABLOY, the global leader in door opening solutions



HEAVY-DUTY FLOOR CLOSERS

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

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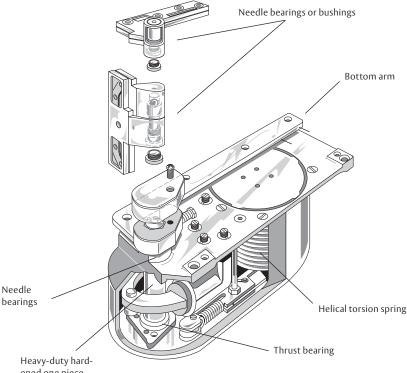
Floor closers provide the best mechanical means to support and control a door. They are designed to work with the laws of physics to provide long-lasting performance and reliability.

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



ened one piece spindle

27 Closer with 180 Top Pivot and M19 Intermediate Pivot (Recommended)

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

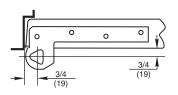
Choose from many different models

- 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)



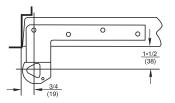
HEAVY-DUTY FLOOR CLOSERS HOW TO SELECT A PRODUCT

1. Offset Vs. Center Hung Application



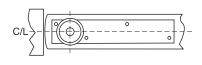
3/4" Offset

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"			
Tempered diass	5	7	9.75			
		Lead Thickness				
Lead Lining	1/16"	1/8"	1/4"			
(add to door material weight)	5	8	9.75			
		Cladding Material				
3/4" Cladding	Wood	Stone	Bronze			
(add to door material weight)	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

For doors of other sizes consult factory

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



3. Expected Frequency of Door Opening

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	
Office building corridor door	75	22,000	Average
Store restroom door	60	18,000	
Residential entrance door	40	15,000	
Residential restroom door	25	9,000	
Residential hallway door	10	3,600	Low
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.



ΟΡΤΙΟΝΣ

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 遱

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.

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.



3/4" OFFSET HUNG

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)
- Cycolac, 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

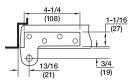
* Door size & weight guidelines are determined using the appropriate number of intermediate pivots

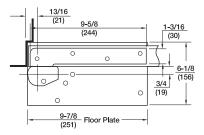


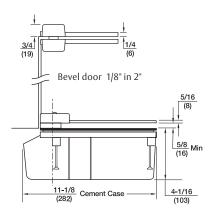


Technical Information

(Frame stop required)









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Model 27

Model 27-180

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)
- Cycolac, 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

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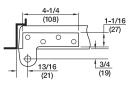
HEAVY-DUTY FLOOR CLOSERS

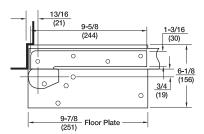
3/4" OFFSET HUNG

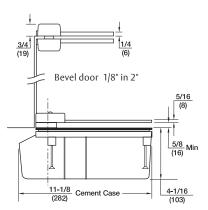


Technical Information

(Frame stop required)









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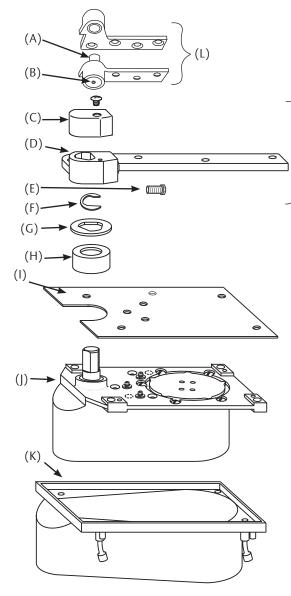
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PARTS DRAWINGS

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

(M) 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

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Model 27

Model 127

HEAVY-DUTY FLOOR CLOSERS

3/4" OFFSET HUNG

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)
- Cycolac, 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

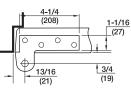
* Door size & weight guidelines are determined using the appropriate number of intermediate pivots

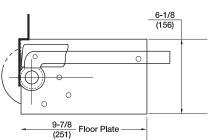


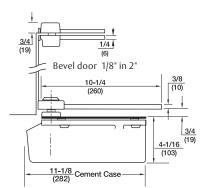


Technical Information

(Frame stop required)









3/4" OFFSET HUNG

Model 427

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)
- Cycolac 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

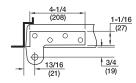
* Door size & weight guidelines are determined using the appropriate number of intermediate pivots

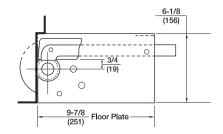


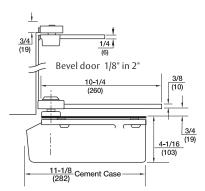


Technical Information







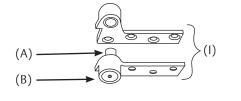


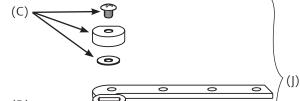


RIGHT HAND SHOWN

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)







HEAVY-DUTY FLOOR CLOSERS PARTS DRAWINGS

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



Model F327

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

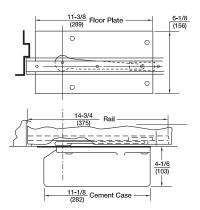
Compliance

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



Technical Information

(Frame stop required)

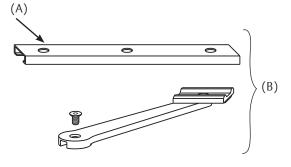


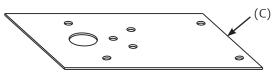


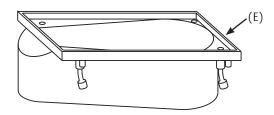
RIGHT HAND SHOWN

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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15

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 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

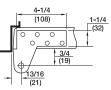
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix PH and suffix 8-1/2 lbs.)
- For fire rated openings (up to 3 hour assemblies) prefix "F". This package will be supplied with a
 FL180 steel top pivot and non-hold open closer. 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

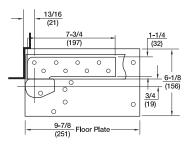
* Door size & weight guidelines are determined using the appropriate number of intermediate pivots

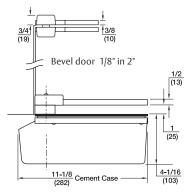


Technical Information

(Frame stop required)







* 1-3/4" door thickness shown



ASSA ABLOY, the global leader in door opening solutions

Model L27

Model L27-180

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

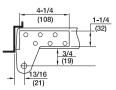
 * Door size & weight guidelines are determined using the appropriate number of intermediate pivots

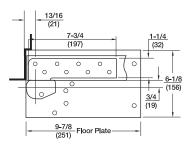


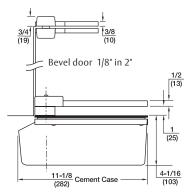


Technical Information

(Frame stop required)









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)

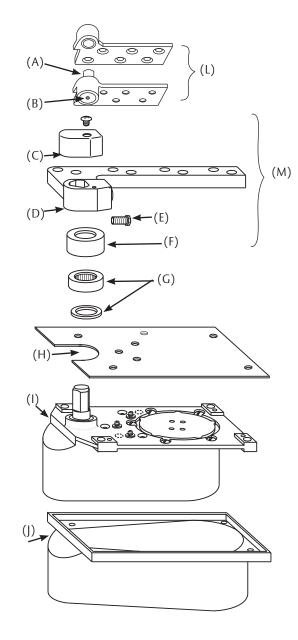
2" Door 18551-Asy (RH) 18651-Asy (LH)

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

Model Q27/QT27

HEAVY-DUTY FLOOR CLOSERS 3/4" OFFSET HUNG

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
- Cycolac 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

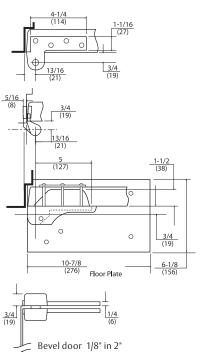


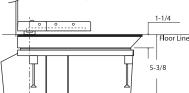


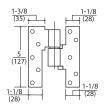


Technical Information

(Frame stop required)





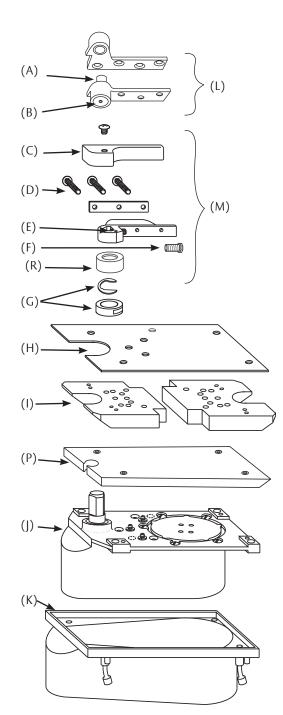




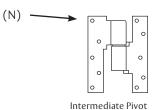
RIGHT HAND SHOWN

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)



Model Q27/QT27

*specify finish

Model HM27

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)
- Cycolac 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



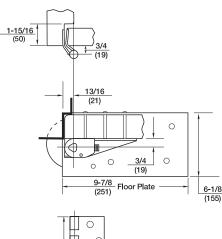


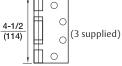


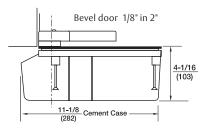


Technical Information

(Frame stop required)









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HEAVY-DUTY FLOOR CLOSERS 3/4" OFFSET HUNG

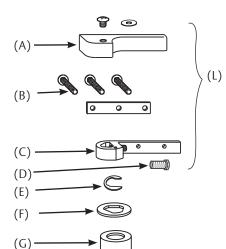
HEAVY-DUTY FLOOR CLOSERS PARTS DRAWINGS

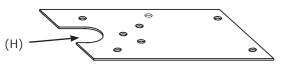
Model HM27

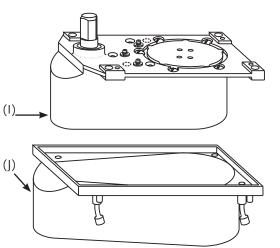
RIGHT HAND SHOWN

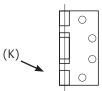
3/4" OFFSET

- (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

Model 20

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

RIXSON

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



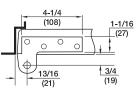
HEAVY-DUTY FLOOR CLOSERS

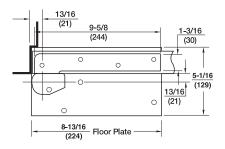
3/4" OFFSET HUNG

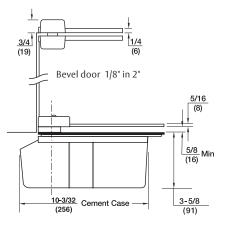


Technical Information

(Frame stop required)







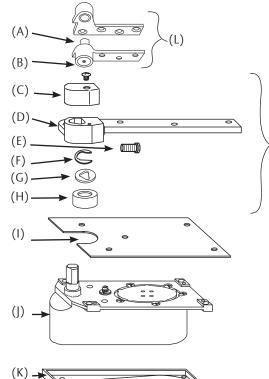


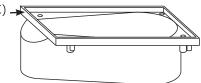
PARTS DRAWINGS

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

(M)

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

Application

- Full Mortise
- Handed

Product Description & Features

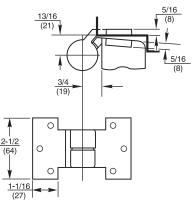
- Not load-bearing
- Maintains door alignment
- Available 3/4" offset only
- Non-ferrous base material
- Recommended for use with Model 127 and 427 Floor Closers
- Bevel door 1/8" in 2"
- Furnished with wood and machine screws

Compliance

- ANSI/C07382



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

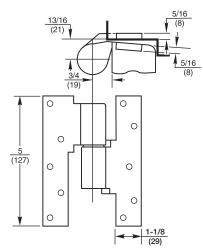
- Available 1-1/2 (38mm) offset for 3/4" cladding

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



Application

- Heavy-Duty Full Mortise
- Handed

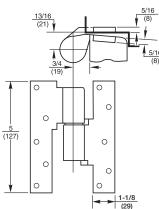
Product Description & Features

- 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

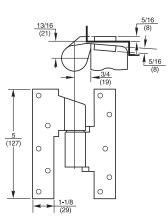
Technical Information



Model FA19



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

Model ML19

Model 28 X 554 ARM

HEAVY-DUTY FLOOR CLOSERS

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)
- Cycolac, 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

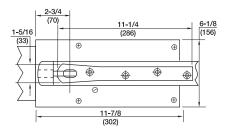
* For doors taller than 8'6" use top pivot # 345 in lieu of 340

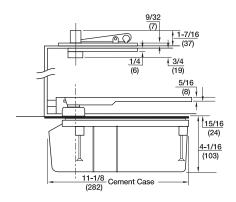




Technical Information

(Frame stop required at lock edge)





Pivot edge of door must be radiused.



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)
- Cycolac, 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

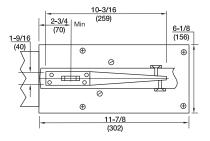
* For doors taller than 8'6" use top pivot # 345 in lieu of 340

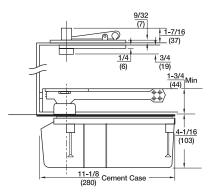




Technical Information

(Frame stop required at lock edge)





Pivot edge of door must be radiused.

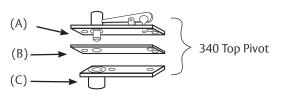


ASSA ABLOY, the global leader in door opening solutions

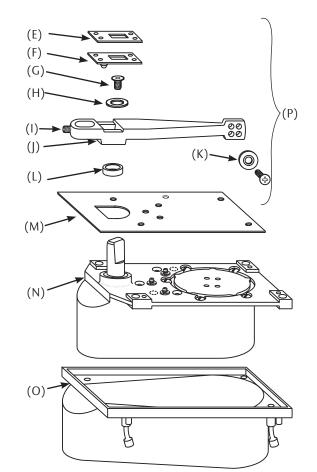
Model 28

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-*







HEAVY-DUTY FLOOR CLOSERS

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



HEAVY-DUTY FLOOR CLOSERS SINGLE-ACTING CENTER HUNG

Model H28

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

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

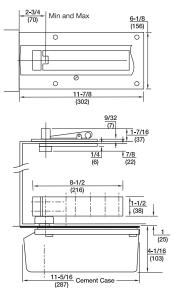
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix "PH" and suffix "8-1/2 lbs.")
- ANSI/C06061

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



Technical Information

(Frame stop required at lock edge)



Pivot edge of door must be radiused.

Model H28 x 587 Arm

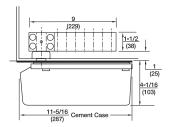
Product Description & Features

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





ASSA ABLOY, the global leader in door opening solutions

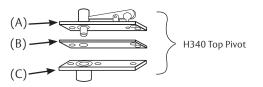
30

Model H28

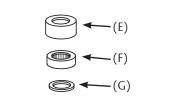
- (A) Jamb Portion 308548
- (B) Finish Plate 012202-*PK (BRS) 012204-*PK (SS)
- (C) Door Portion 30141
- (D) Standard End Load Arm Package (minimum 2" door thickness)
 262022 (Includes 107060, 107045, and 107145)
- (E) Arm Spindle Collar 259500-*
- (F) Heavy-Duty Thrust Bearing41204-PKG (Includes41207N)
- (G) Arm Shim Kit 107060
- (H) Floor Plate with Screws NHO 284020R* (RH 284020L* (LH) SHO

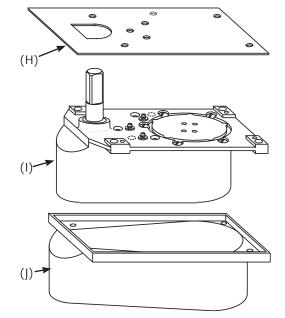
284720R* (RH) 284720L* (LH)

- (I) Closer Body (Specify Complete Model No. x LAP) (Includes 41204- PKG)
- (J) Cement Case with Screws 253001 - PKG









HEAVY-DUTY FLOOR CLOSERS PARTS DRAWINGS

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



OVERHEAD CONCEALED CLOSERS

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

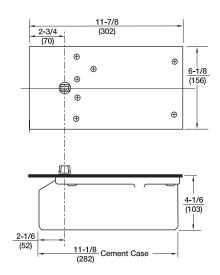
Compliance

- 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)





ASSA ABLOY, the global leader in door opening solutions

Model 328

Model 428 (With Patch Fittings

HEAVY-DUTY FLOOR CLOSERS

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)
- Cycolac, 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

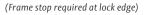
Compliance

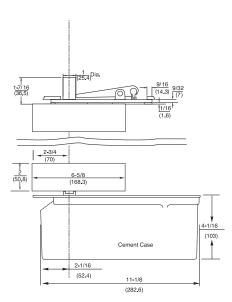
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix "PH" and suffix "8-1/2 lbs.")





Technical Information



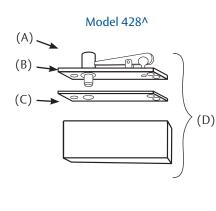


*specify finish



PARTS DRAWINGS

- (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

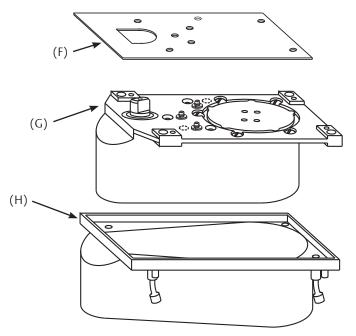




*AModel 428 includes patch fittings, top pivot, cement case, closer body and floor plate (D, E, F, G & H)

- (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

ASSA ABLOY, the global leader in door opening solutions

Model 328/428

Model EH28

HEAVY-DUTY FLOOR CLOSERS

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 manufactuer, 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

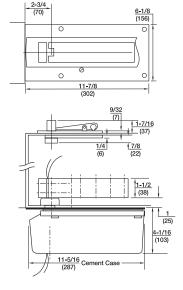
Compliance

- 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







Not available with ElectroLynx®

Pivot edge of door must be radiused.

Model EH28 X 587 ARM

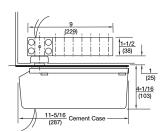
Product Description & Features

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





PARTS DRAWINGS

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

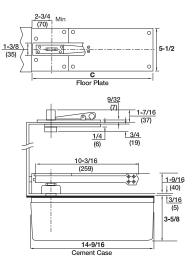
Compliance

- 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.



ASSA ABLOY, the global leader in door opening solutions

Model 30

Model 40

HEAVY-DUTY FLOOR CLOSERS

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

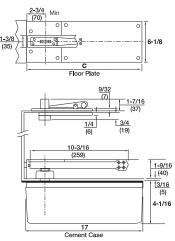
- Models available to meet ICC/ANSI A117.1 low opening force requirements, prefix "PH". (For 8-1/2 lbs. of opening force prefix PH and suffix 8-1/2 lbs.)
- ANSI/C06012

* 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

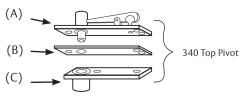


Pivot edge of door must be radiused.

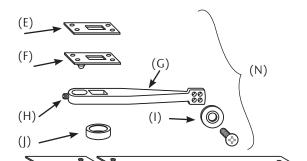


PARTS DRAWINGS

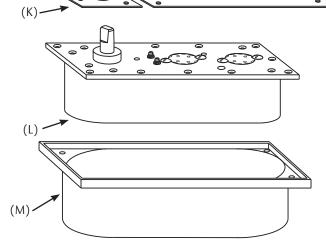
- (A) Jamb Portion 3065
- (B) Finish Plate
 012202-*PK(BRS)
 012204-*PK(SS)
- (C) Door Portion 30243
- (E) Arm Plate Shims (.062) 46045-PKG (5)
- (E) Arm Plate Shims (.187) 46145-PKG (5)
- (F) Arm Plate & Stud Assy 46445
- (G) Arm & Arm Set Screw 302026
- (H) Arm Set Screw Only (5) 26087-PKG
- (I) Arm AlignmentScrew & 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







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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

ASSA ABLOY, the global leader in door opening solutions

Model 30, 40

Model H40

HEAVY-DUTY FLOOR CLOSERS

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

Model H40 X 587 ARM

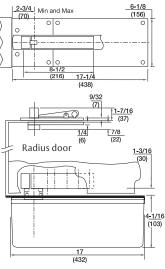
Product Description & Features

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



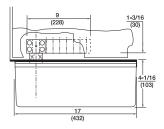
Technical Information



Pivot edge of door must be radiused.



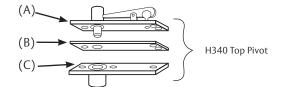
Technical Information

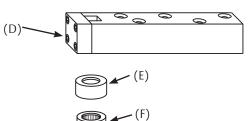


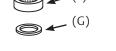


PARTS DRAWINGS

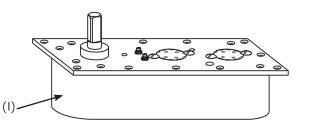
- (A) Jamb Portion 308548
- (B) Finish Plate 012202-*PK (BRS) 012204-*PK (SS)
- (C) Door Portion 30141
- (D) Standard End Load Arm Package (minimum 2" door thickness) 262022
- (E) Arm Spindle Collar 259500-*
- (F) Heavy-Duty Thrust Bearing 41204-PKG
- (G) Arm Shim Kit 107060
- (H) Floor Plate with Screws1 Large 1 Small404020 -*
- Closer Body (Specify Complete Model No. x LAP) (Includes 41204- PKG)
- (J) Cement Case with Screws 403000

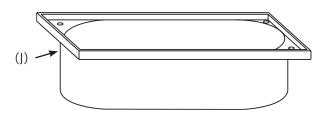












587 Side Load Arm Package For 1-3/4" Door



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

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ASSA ABLOY, the global leader in door opening solutions

Model H40

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

H345 Top Pivot

Application

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

Product Description & Features

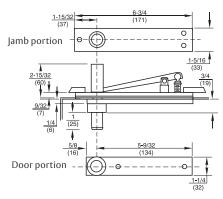
- Ideal for locations where dramatic building settling is possible or for doors over 8'6" in height
- Long pivot pin engages in top of door 1-3/4" (44mm)
- Can be used with heavy-duty (H) center hung floor closer. Order the floor closer LTP (less top pivot) and the H345 top pivot separately
- Walking 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

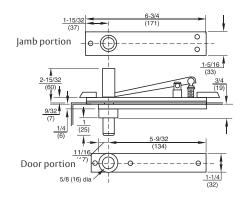


Technical Information





Technical Information





ASSA ABLOY, the global leader in door opening solutions

HEAVY-DUTY FLOOR CLOSERS PARTS DRAWINGS

HOW TO ORDER

	PH Prefix	27 Mode	I	90 Degree of Swin	g	N Hold Open	x 1/2" Ext Spdl Suffix		x RH Hand	x 626 Finish
SC DA PH W F	Sealed Closer Delayed Action Lighter Spring (ADA) Wd Dr (center hung) Fire Rated Doors (offset) — Not available with PH	27 127 427 F327^ L27 Q27 QT27 HM27 20	28 H28 328 428 *30 *40 *H40	85 90 95 105 180 *(90 & 100 for 30-40 series only	A S	Non- Hold Open Automatic Hold Open Selective Hold Open (model 27 & 28) 554 587 Ext Spo 1-1/2" CWF -20 8.5# LAP LFP LCC LTP — — SPLO	Concealed Arn Side Load Arm	equired) Fluid el pring hly e ase ed depth s	613 613E 618 619 622 625 626	g Bright Brass Satin Brass Bright Bronze Satin Bronze Oil Rubbed Bronze Dark Oxidized Satin Bronze - equivalent Bright Nickel Satin Nickel Flat Black Bright Chrome Satin Chrome Black Suede Powder White Suede Powder

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



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PRODUCT COMPARISON CHART

OFFSET HUNG

	20	27	27-180	127	427	HM27 ⁶	L27	L27-180	Q27, QT277
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 available⁴							•	•	
Extended spindles available⁵	•	•	•	•	•	•	•	•	•
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

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°
 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

Can accommodate the following door thicknesses. 2 ,
 1/2" increments up to 2"
 Shipped with (3) special hinges
 Q: includes floor plate, QT: for threshold applications
 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	РН
Fire Rated	F
Cold Weather Fluid ⁹	CWF
20 minute label	-20
Physically Handicapped Fire Rated Cold Weather Fluid ⁹	PH F CWF

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HEAVY-DUTY FLOOR CLOSERS 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	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

Door swing must be specifi ed when ordering center hung single acting closers. Single acting closers: specify 85°, 90°, 95° or 105°
 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

RIXSON
ASSA ABLOY



Optional Features	Designation
Sealed Closer	SC
Delayed Action⁵	DA
Physically Handicapped	PH
Wood Door	w
Cold Weather Fluid ⁶	CWF

HEAVY-DUTY FLOOR CLOSERS 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	٠	•	•	•
Non-hold open	٠	•	•	•
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	٠	•	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

Notes: Center hung closers are not allowed on fire rated doors 	Optional Features	Designation
Primary means of egress should NOT use double acting closers	Sealed Closer	SC
• Doors taller than 8'6", use 345 in lieu of 340 top pivot and H345 in lieu of H340 top pivot	Physically Handicapped	PH
 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" 	Wood Door	w
3. Arm does not allow centering adjustment; NOT recommended for pair of doors	Cold Weather Fluid⁵	CWF

4. Side load arm allows pivot point to be moved away from pivot edge of door; minimum 2-3/4" backset

5. CWF not available for closers with DA



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