



Surface Applied
Door Closers

DORMA 8600

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The quality management system at the Reamstown, PA facility is certified to ISO-9001:2008.*



*DORMA Door Controls Inc., dba: DORMA Architectural Hardware

The 8600 Series closers represent the latest in door control technology, designed to exceed the demands of today's buildings.

With features like the full range spring power adjustment, the 8600 Series closer provides the flexibility needed to meet the many demands of commercial and institutional applications, including ADA barrier-free accessibility requirements.

This door control also features a **backcheck positioning** adjustment for parallel arm applications, to maintain an ANSI backcheck range similar to regular and top jamb applications. The modern slim cover, flat form arm, and architectural finishes provide the aesthetic qualities required of architectural grade closers.

In addition to all of these superior features, the 8600 Series is backed by DORMA's unprecedented 25-year warranty.

Technical Details:

-  Available as 8616 closers for interior and exterior doors. Meets barrier-free requirements (adjustable size 1 thru 6).
- Non-handed for regular, top jamb and parallel arm applications.
- Adjustable backcheck standard. Controls opening motion during abusive or abrupt opening.
- POS backcheck positioning valve (standard) maintains effective backcheck range on parallel arm applications. Valve is accessible with the closer installed.
- Optional delayed action adjustable with a separate independent valve. Delays door closing to allow unobstructed passage through the opening.
- Slim plastic cover standard. Full plastic or metal cover optional.
- Designed to minimize change in closing speed during severe temperature changes.
- Aesthetically pleasing and easy to adjust steel flat form arm assembly.
- A full complement of optional arms, plates, and brackets available for special applications.
- SNB1 sex nuts and machine screws for 1-3/4" thick doors included standard.
- Available with optional self-drilling screws for steel door and frame applications (DPK86)
- Available with optional self-tapping screws for aluminum door and frame applications (TPK86).
- No slip, octagonal bore spring adjustment standard.

Certifications:

- ANSI/BHMA A156.4 Grade 1 certified.
- U.L. & C.U.L. listed.
- Meets UL10C and UBC 7.2 (1997).
- Meets ANSI/BHMA A117.1 and ADA for barrier-free accessibility.
- CSFM approved.



Features	8616
Spring size (shipped as size 4)	1-6
Non-handed	•
Parallel arm bracket	•
Full line of specialty function arms and plates	•
Backcheck positioning adjustment	•
Controlled closing with two adjustment valves	180°-10° 10°-0°
Backcheck	•
Delayed action	○
Hold open	○
SNB1 sex nuts for 1-3/4" thick doors included	•
Self-drilling screws (DPK)	○
Self-tapping screws (TPK)	○
Tamper-resistant TORX screws (TX)	○
Slim plastic cover	•
Full cover (metal or plastic)	○

• yes ○ optional

Specification:

The architectural grade 8600 Series is a non-handed surface applied door closer with adjustable spring power and backcheck positioning adjustment. Adjustable hydraulic backcheck will take effect at approximately 70°. The 8600 has two independent, noncritical adjustment valves to control sweep and latch closing speeds. The backcheck positioning valve assures an effective ANSI backcheck range on parallel arm applications. All closers to have field adjustable spring power from size 1 to 6 and meet barrier-free requirements. Closers to have a slim plastic cover and a wide range of arm options. All 8600 fully adjustable spring force door closers to include an integral design to positively stop adjustment of the spring at the minimum and maximum spring force settings. Standard with special rust inhibitor (SRI) for added protection against corrosive environments.

Optional Specifications:

The 8600 Series closer will have optional delayed action (DA). Delayed action range will be effective from maximum opening to approximately 65°. All 8600 closers to have full metal (FMC) or full plastic (FC) cover. All 8600 closers to have sex nuts with machine screws for 1-3/8" door (SNB2). Closers to have self-drilling screws for steel doors and frames (DPK86). Closers to have self-tapping screws for aluminum doors and frames (TPK86). Closers to have TORX security for all exposed fasteners (TX86).

REDUCED OPENING FORCE INSTALLATIONS CAUTION:

Manual door closers, including those certified to meet ANSI/BHMA A156.4, when installed and adjusted to conform to ADA or other reduced opening force requirements, may not provide sufficient power to reliably close and latch a door.

Refer to catalog for ED800 Low Energy Operator to meet reduced opening force requirements without affecting closing power.

Finishes:**Standard Sprayed Finishes:**

Aluminum: 689.

Bronze: 691 (Dull), 690 (Statuary), or 695 (Dark Duranodic).

Gold: 696.

Black: 693.

Optional DORMA Custom Color or Designer Color Finishes:

Contact Customer Service.

Optional Plated Finishes:

Brass: 605 (Bright) or 606 (Satin).

Bronze: 611 (Bright), 612 (Satin), or
613 (Oxidized Satin Oil Rubbed).

Nickel: 618 (Bright) or 619 (Satin).

Chrome: 625 (Bright) or 626 (Satin).

Warranty: 25 years for projects within the United States. For full details, refer to the **Limited Warranty Policy** in the current DORMA price list.

How to Order 8600 Series

Series		Spring Size Adjustable 1-6		Cover		Arm Type	
8600	16	Delay	DA	AF86P	COV	SNB1	689
Flat Form Non-Hold Open, Tri-Pack	AF86P	Wood/Machine Screw Combination	COMBO	605	Polished Brass		
Flat Form Non-Hold Open, TJ 4"-8" Reveal	AF86J	Sex Nuts and Machine Screws, 1-3/4"	SNB1	606	Satin Brass		
Flat Form Non-Hold Open, Reg./TJ 0"-4" Reveal	AF86	Sex Nuts and Machine Screws, 1-3/8"	SNB2	611	Polished Bronze		
Round Arm Non-Hold Open, Tri-Pack	ARP	Self-Drilling	DPK86	612	Satin Bronze		
Round Arm Non-Hold Open, TJ 4"-8" Reveal	ARJ	Std. and Self-Drilling	SNDPK	613	Oxidized Satin Oil Rubbed Bronze		
Round Arm Non-Hold Open, TJ 0"-4" Reveal	AR	Self-Tapping	TPK86	618	Polished Nickel		
Round Arm Secure Non-Hold Open, Tri-Pack	AO8P	Std. and Self-Tapping	SNTPK	619	Satin Nickel		
Round Arm Secure Non-Hold Open, Reg./TJ 0"-4" Reveal	AO8	Torx Security Pack	TX86	625	Polished Chrome		
Friction Hold Open, Tri-Pack	FHP	All Wood Screws	AWS	626	Satin Chrome		
Friction Hold Open, TJ 4"-8" Reveal	FHJ	All Metric Fasteners	METRIC	630	Satin Stainless SIS/SISJ only		
Friction Hold Open, Reg./TJ 0"-4" Reveal	FH	Less Sex Nuts	LSN	600	Primed		
Plunger Hold Open, Parallel and TJ (1-1/2"-3-1/2" Reveal)	PHP	Fastener Pack		689	Aluminum		
Plunger Hold Open, Reg./TJ 0"-1-1/2" Reveal	PH	Plated		690	Statuary Bronze		
Door Saver Parallel Cushion Arm	DS			691	Dull Bronze		
Door Saver Parallel Cushion Arm Thumb Turn Hold Open	DST			693	Black		
Spring Door Saver Parallel Dead Stop	DSK			695	Dark Duranodic Bronze		
Spring DS Parallel Dead Stop Thumb Turn Hold Open	SDS			696	Gold		
Cushion IS Arm Reg./TJ 0"-3-1/2" Reveal	SDST			PNT	Special Sprayed Finish (must specify)		
Spring Stop IS Reg./TJ 0"-3-1/2" Reveal	IS			Painted			
Spring Stop IS Hold Open, Reg./TJ 0"-3-1/2" Reveal	ISH						
Spring Stop IS Hold Open, Reg./TJ 0"-3-1/2" Reveal	SIS						
Cushion IS Arm Top Jamb 3-1/2"-6-1/2" Reveal	SISH						
Spring Stop IS Top Jamb 3-1/2"-6-1/2" Reveal	ISJ						
Super Parallel Arm	ISJH						
Super Parallel Arm Thumb Turn Hold Open	SISJ						
Super Parallel Arm Key Hold Open	SISJH						
Track, Pull Side Door Mounted	SPA						
Jamb Track, Pull Side Frame Face Mounted	SPAT						
Push Track, Push Side Soffit Mounted	SPAK						
Track Double Egress, Pull Side Transom Mounted	T						
Flush Track, Push Side Transom Mounted	JT						
Track Hold Open, Pull Side Door Mounted	PT						
Push Track Hold Open, Push Side Soffit Mounted	TDE						
Flush Track Hold Open, Pull Side Frame Face Mounted	FT						
	TH						
	JTH						
	PTH						
	TDEH						
	FTH						

NOTES:

- All combinations of features and options are not available for all models.
- To simplify initial installation, a range of back plates (BPxx), drop plates (DPxx), brackets, and spacers are available. Refer to **Accessories** section for details.

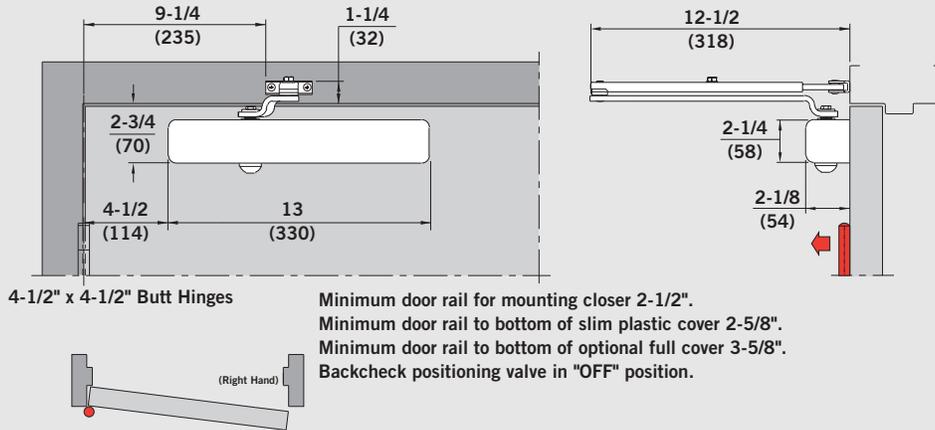
Technical Drawing (Symbols and Notes)

- – Recommended application
- N/A – Not applicable / application not recommended
- ♿ – Opening force 5 lb or less on interior doors; 8.5 lb or less on exterior doors where door without closer attached requires 1 lb opening force or less.

NOTE: The **backcheck positioning** adjustment is specifically designed for parallel arm applications. It advances the backcheck to an approximate ANSI range similar to regular and top jamb applications. The backcheck range(s) within each parallel arm technical drawing reflect an **on** status. Regular, top jamb, and track ranges reflect an **off** status. The 8600 Series closer is shipped with the backcheck positioning valve on.

Regular × Flat Form Arm (or Round Form Arm)

- 8616 AF86 (Flat Form Arm – Shown)
- 8616 AR (Round Form Arm)
- 8616 AO8 (Round Form Arm)



Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.
8616	INTERIOR	•	•	♿	•	•	•
	EXTERIOR	•	•	♿	•	•	N/A

MAXIMUM OPENING	APPROX. BACKCHECK*	APPROX. DELAYED ACTION
180°	65°-180°	180°-65°

* Backcheck is advanced approximately 15° with positioning valve on.

Regular x Friction Hold Open

8616 FH

4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for mounting closer 2-5/8".
 Minimum door rail to bottom of slim plastic cover 2-3/4".
 Minimum door rail to bottom of optional full cover 3-3/4".
 Backcheck positioning valve in "OFF" position.

(Right Hand)

Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH						TEMPLATE REFERENCE	DIM "A"	DIM "B"	APPROX. MAXIMUM OPENING	APPROX. BACKCHECK*	APPROX. DELAYED ACTION	MINIMUM HOLD OPEN	MAXIMUM HOLD OPEN
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.								
8616	INTERIOR	•	•	⊘	•	•	•	7" (178)	12-5/8" (321)	110°	65°-110°	110°-65°	80°	110°	
	EXTERIOR	•	•	⊘	•	•	N/A	6" (152)	11-5/8" (295)	125°	70°-125°	125°-70°	90°	125°	
								3-1/2" (89)	9-1/8" (232)	180°	85°-180°	180°-85°	100°	165°	

* Backcheck is advanced approximately 15° with positioning valve on.

Regular x Plunger Hold Open

8616 PH

4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for mounting closer 2-1/2".
 Minimum door rail to bottom of slim plastic cover 2-5/8".
 Minimum door rail to bottom of optional full cover 3-5/8".
 Backcheck positioning valve in "OFF" position.

(Right Hand)

Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH						MAXIMUM OPENING	APPROX. BACKCHECK*	APPROX. DELAYED ACTION	MINIMUM HOLD OPEN	MAXIMUM HOLD OPEN
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.					
8616	INTERIOR	•	•	⊘	•	•	•	180°	65°-180°	180°-65°	30°	140°
	EXTERIOR	•	•	⊘	•	•	N/A					

* Backcheck is advanced approximately 15° with positioning valve on.

Regular x Cushion IS Arm

8616 IS/ISH

4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for mounting closer 2".
 Minimum door rail to bottom of slim plastic cover 2-5/8".
 Minimum door rail to bottom of optional full cover 3-5/8".
 Backcheck positioning valve in "OFF" position.

Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.
8616	INTERIOR	•	•	•	•	•	•
	EXTERIOR	•	•	•	•	•	N/A

TEMPLATE REFERENCE	DIM "A"	DIM "B"	** CUSHION/ HOLD OPEN	* APPROX. BACKCHECK	APPROX. DELAYED ACTION
	7-11/16" (195)	13-7/8" (352)	85°	55°-85°	85°-55°
	7" (178)	13-1/2" (343)	90°	60°-90°	90°-60°
	6-3/16" (157)	13-1/4" (337)	95°	65°-95°	95°-65°
	6-1/8" (156)	12-5/8" (321)	100°	70°-100°	100°-70°
	5-11/16" (144)	12-1/4" (311)	105°	75°-105°	105°-75°
	5-1/4" (133)	11-7/8" (302)	110°	75°-110°	110°-75°

* Backcheck is advanced approximately 15% with positioning valve on.
 ** Hold Open is approximately 5°-7° less than the cushion angle listed in the chart.

Regular x Spring Stop IS Arm

8616 S-IS/S-ISH

4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for mounting closer 2-1/2".
 Minimum door rail to bottom of slim plastic cover 2-5/8".
 Minimum door rail to bottom of optional full cover 3-5/8".
 Backcheck positioning valve in "OFF" position.

Size Selection Chart

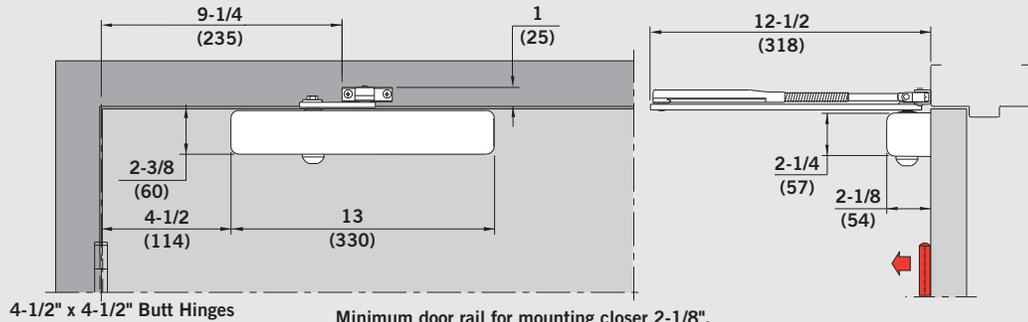
CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.
8616	INTERIOR	•	•	•	•	•	•
	EXTERIOR	•	•	•	•	•	N/A

TEMPLATE REFERENCE	DIM "A"	DIM "B"	** DEAD STOP/ HOLD OPEN	* APPROX. BACKCHECK	APPROX. DELAYED ACTION
	9-1/4" (235)	11-9/16" (294)	85°	55°-85°	85°-55°
	8-3/8" (212)	11-1/16" (281)	90°	60°-90°	90°-60°
	7-3/8" (188)	10-1/16" (256)	100°	70°-100°	100°-70°
	6-5/8" (169)	9-5/16" (237)	110°	75°-110°	110°-75°

* Backcheck is advanced approximately 15% with positioning valve on.
 ** Hold Open is approximately 5°-7° less than the dead stop angle listed in the chart.

Regular × Round Form Arm, Narrow Profile

8616 ARNP



4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for mounting closer 2-1/8".
 Minimum door rail to bottom of slim plastic cover 2-1/4".
 Minimum door rail to bottom of optional full cover 3-1/4".
 Backcheck positioning valve in "OFF" position.



Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.
8616	INTERIOR	•	•	•	•	•	•
	EXTERIOR	•	•	•	•	•	N/A

MAXIMUM OPENING	APPROX. BACKCHECK*	APPROX. DELAYED ACTION	MINIMUM HOLD OPEN	MAXIMUM HOLD OPEN
180°	65°-80°	180°-65°	30°	140°

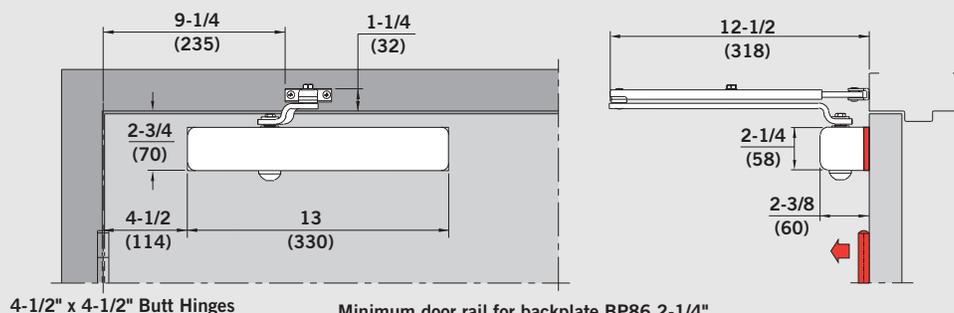
* Backcheck is advanced approximately 15° with positioning valve on.

Regular × Flat Form Arm (or Round Form Arm) × Backplate

8616 AF86 BP86 (Flat Form Arm – Shown)

8616 AR BP86 (Round Form Arm)

8616 AO8 BP86 (Round Form Arm)



4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for backplate BP86 2-1/4".
 Minimum door rail to bottom of slim plastic cover 2-5/8".
 Minimum door rail for backplate BP86FC 2-1/4".
 Minimum door rail to bottom of optional full cover 3-5/8".
 Backcheck positioning valve in "OFF" position.



Size Selection Chart

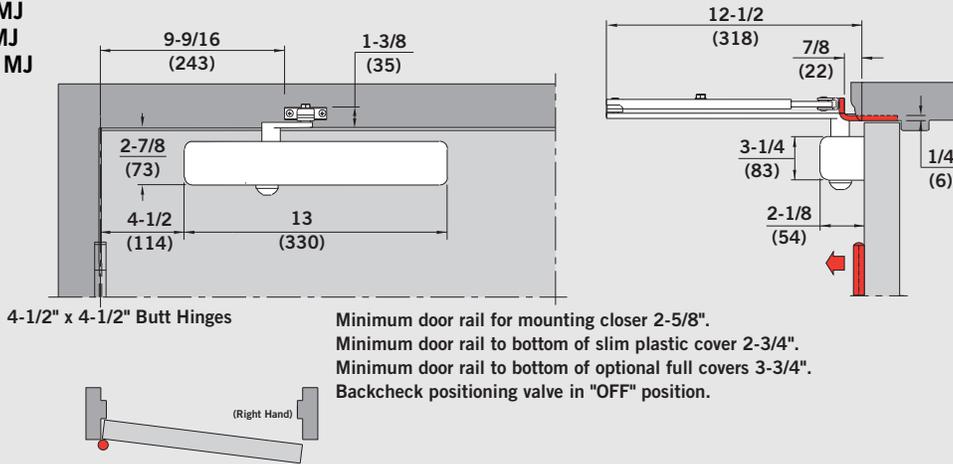
CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.
8616	INTERIOR	•	•	•	•	•	•
	EXTERIOR	•	•	•	•	•	N/A

MAXIMUM OPENING	APPROX. BACKCHECK*	APPROX. DELAYED ACTION
180°	65°-180°	180°-65°

* Backcheck is advanced approximately 15° with positioning valve on.

Regular x Mortised Jamb Bracket

8616 AF8MJ
8616 AR MJ
8616 AO8 MJ



Size Selection Chart

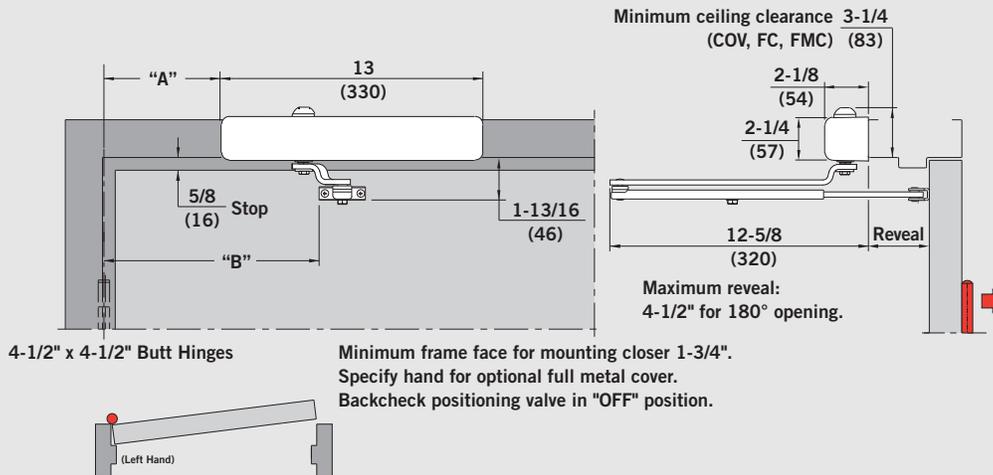
CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.
8616	INTERIOR	•	•	♿	•	•	•
	EXTERIOR	•	•	♿	•	•	N/A

MAXIMUM OPENING	APPROX. BACKCHECK*	APPROX. DELAYED ACTION
180°	65°-180°	180°-65°

* Backcheck is advanced approximately 15° with positioning valve on.

Top Jamb x Flat Form Arm (or Round Form Arm)

8616 AF86J (Flat Form Arm – Shown) (4" to 8" reveal)
8616 ARJ (Round Form Arm) (4" to 8" reveal)



Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.
8616	INTERIOR	•	•	♿	•	•	•
	EXTERIOR	•	•	♿	•	•	N/A

TEMPLATE REFERENCE	DIM "A"	DIM "B"	REVEAL	ARM	APPROX. MAXIMUM OPENING	APPROX. BACKCHECK*	APPROX. DELAYED ACTION
TO 180°	4-1/2" (114)	9-1/4" (235)	0"	AF86 AR	180°	70°-180°	180°-70°
			4"	AF86 AR	180°	75°-180°	180°-75°
TO 180°	4-1/2" (114)	9-1/4" (235)	4"	AF86J ARJ	180°	75°-180°	180°-75°
			8"	AF86J ARJ	165°	80°-165°	165°-80°

* Backcheck is advanced approximately 15° with positioning valve on.

Note: Bold type shows supplied arm.

Top Jamb x Friction Hold Open

8616 FHJ - (4" to 8" reveal)

Minimum ceiling clearance 3-1/4 (83)
(COV, FC, FMC)

4-1/2" x 4-1/2" Butt Hinges

Minimum frame face for closer 1-3/4".
Specify hand for optional full metal cover.
Backcheck positioning valve in "OFF" position.

(Left Hand)

TEMPLATE REFERENCE	DIM "A"	DIM "B"	REVEAL	ARM	APPROX. MAXIMUM OPENING	APPROX. BACKCHECK*	APPROX. DELAYED ACTION	MIN. HOLD OPEN	MAX. HOLD OPEN
TO 100°	7-1/2" (190)	13-1/8" (333)	0°	FH	110°	70°-110°	110°-70°	70°	105°
			4°	FH	105°	75°-105°	105°-75°	70°	100°
			4°	FHJ	105°	75°-105°	105°-75°	70°	100°
TO 120°	6" (152)	11-5/8" (295)	0°	FH	125°	75°-125°	125°-75°	75°	120°
			4°	FH	120°	80°-120°	120°-80°	75°	115°
			4°	FHJ	120°	80°-120°	120°-80°	75°	115°
OVER 120°	3-1/2" (89)	9-1/8" (232)	0°	FH	180°	85°-180°	180°-85°	80°	170°
			4°	FH	180°	90°-180°	180°-90°	80°	170°
			4°	FHJ	180°	90°-180°	180°-90°	80°	170°
			8°	FHJ	165°	100°-165°	165°-100°	85°	155°

Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.
8616	INTERIOR	•	•	♿	•	•	•
	EXTERIOR	•	•	♿	•	•	N/A

* Backcheck is advanced approximately 15° with positioning valve on.
Note: Bold type shows supplied arm.

Top Jamb x Cushion IS Arm

8616 ISJ/ISJH - (3-1/2" to 6-1/2" reveal)

Minimum ceiling clearance 3-1/4 (83)
(COV, FC, FMC)

4-1/2" x 4-1/2" Butt Hinges

Minimum frame face for mounting closer 1-5/8".
Specify hand for optional full metal cover.
Backcheck positioning valve in "OFF" position.

(Left Hand)

TEMPLATE REFERENCE	DIM "A"	DIM "B"	REVEAL	ARM	** CUSHION/ HOLD OPEN	* APPROX. BACKCHECK	APPROX. DELAYED ACTION
85°	6-1/2" (165)	12-5/8" (321)	0°-3-1/2"	IS	85°	55°-85°	85°-55°
			3-1/2"-6-1/2"	ISJ	85°	55°-85°	85°-55°
90°	5-3/4" (146)	12-1/8" (308)	0°-3-1/2"	IS	90°	60°-90°	90°-60°
			3-1/2"-6-1/2"	ISJ	90°	60°-90°	90°-60°
95°	5-1/2" (140)	11-3/4" (298)	0°-3-1/2"	IS	95°	65°-95°	95°-65°
			3-1/2"-6-1/2"	ISJ	95°	65°-95°	95°-65°
100°	5-1/4" (133)	11-1/4" (286)	0°-3-1/2"	IS	100°	70°-100°	100°-70°
			3-1/2"-6-1/2"	ISJ	100°	70°-100°	100°-70°
105°	5" (127)	11" (279)	0°-3-1/2"	IS	105°	75°-105°	105°-70°
			3-1/2"-6-1/2"	ISJ	105°	75°-105°	105°-70°
110°	4-3/4" (121)	10-3/4" (273)	0°-3-1/2"	IS	110°	75°-110°	110°-75°
			3-1/2"-6-1/2"	ISJ	110°	75°-110°	110°-75°

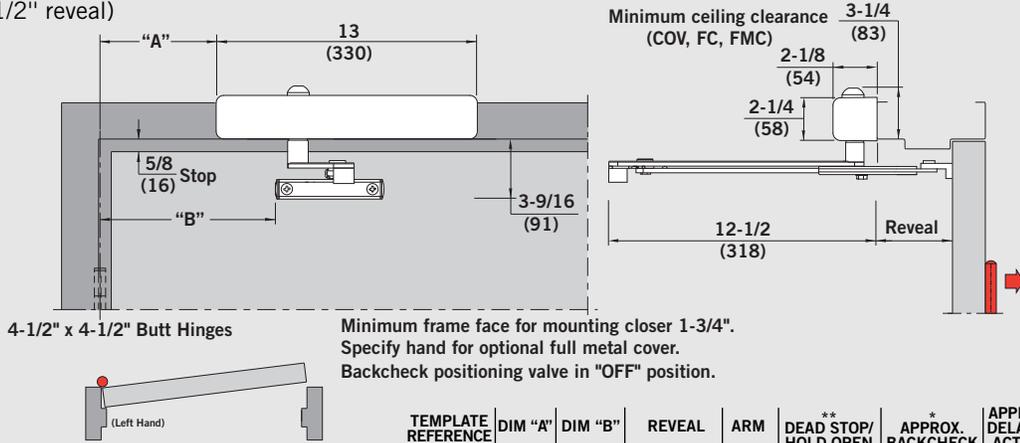
Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.
8616	INTERIOR	•	•	♿	•	•	•
	EXTERIOR	•	•	♿	•	•	N/A

* Backcheck is advanced approximately 15° with positioning valve on.
** Hold Open is approximately 5°-7° less than the cushion angle listed in the chart.
Note: Bold type shows supplied arm.

Top Jamb x Spring Stop IS Arm

8616 S-ISJ/S-ISJH -
(3-1/2" to 6-1/2" reveal)



Size Selection Chart

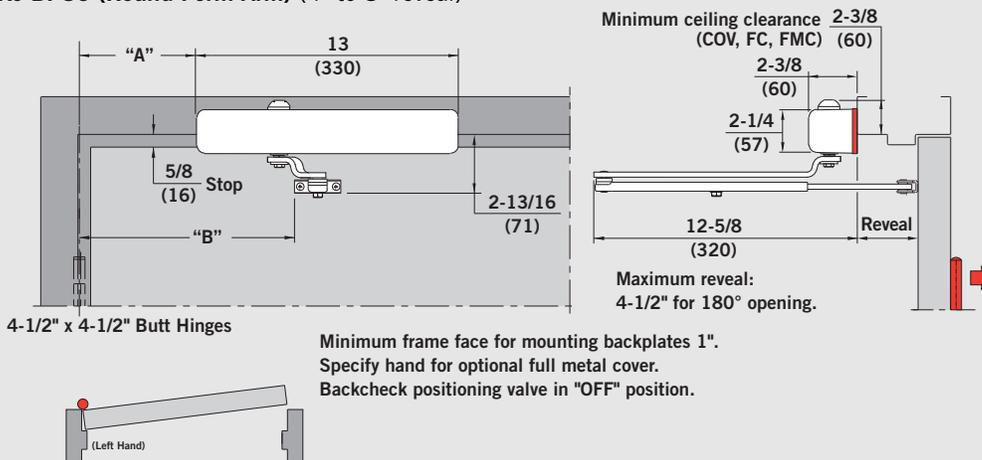
CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.
8616	INTERIOR	•	•	♿	•	•	•
	EXTERIOR	•	•	♿	•	•	N/A

TEMPLATE REFERENCE	DIM "A"	DIM "B"	REVEAL	ARM	DEAD STOP/ HOLD OPEN	APPROX. BACKCHECK	APPROX. DELAYED ACTION
85°	8-3/8" (213)	11-1/16" (281)	0"-3-1/2"	S-IS	85°	55°-85°	85°-55°
			3-1/2"-6-1/2"	S-ISJ	85°	55°-85°	85°-55°
90°	7-3/4" (197)	10-7/16" (266)	0"-3-1/2"	S-IS	90°	60°-90°	90°-60°
			3-1/2"-6-1/2"	S-ISJ	90°	60°-90°	90°-60°
100°	6-7/8" (175)	9-9/16" (243)	0"-3-1/2"	S-IS	100°	70°-100°	100°-70°
			3-1/2"-6-1/2"	S-ISJ	100°	70°-100°	100°-70°
110°	6-1/4" (159)	8-15/16" (227)	0"-3-1/2"	S-IS	110°	75°-110°	110°-75°
			3-1/2"-6-1/2"	S-ISJ	110°	75°-110°	110°-75°

* Backcheck is advanced approximately 15° with positioning valve on.
 **Hold Open is approximately 5°-7° less than the dead stop angle listed in the chart.
 Note: Bold type shows supplied arm.

Top Jamb x Flat Form Arm (or Round Form Arm) x Backplate

8616 AF86J BP86 (Flat Form Arm - Shown) (4" to 8" reveal)
 8616 ARJ BP86 (Round Form Arm) (4" to 8" reveal)



Size Selection Chart

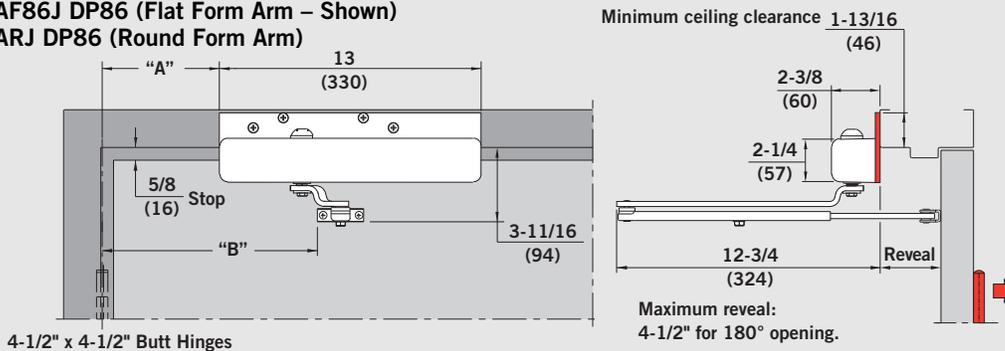
CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.
8616	INTERIOR	•	•	♿	•	•	•
	EXTERIOR	•	•	♿	•	•	N/A

TEMPLATE REFERENCE	DIM "A"	DIM "B"	REVEAL	ARM	APPROX. MAXIMUM OPENING	APPROX. BACKCHECK*	APPROX. DELAYED ACTION
TO 180°	4-1/2" (114)	9-1/4" (235)	0"	AF AR	180°	70°-180°	180°-60°
			4"	AF AR	180°	75°-180°	180°-70°
TO 180°	4-1/2" (114)	9-1/4" (235)	4"	AFJ ARJ	180°	75°-180°	180°-70°
			8"	AFJ ARJ	165°	80°-165°	165°-70°

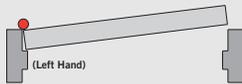
* Backcheck is advanced approximately 15° with positioning valve on.
 Note: Bold type shows supplied arm.

Top Jamb x Flat Form Arm (or Round Form Arm) x Drop Plate

8616 AF86J DP86 (Flat Form Arm – Shown)
8616 ARJ DP86 (Round Form Arm)



Minimum frame face for mounting drop plates 1-3/4".
Specify hand for optional full metal cover.
Backcheck positioning valve in "OFF" position.



Size Selection Chart

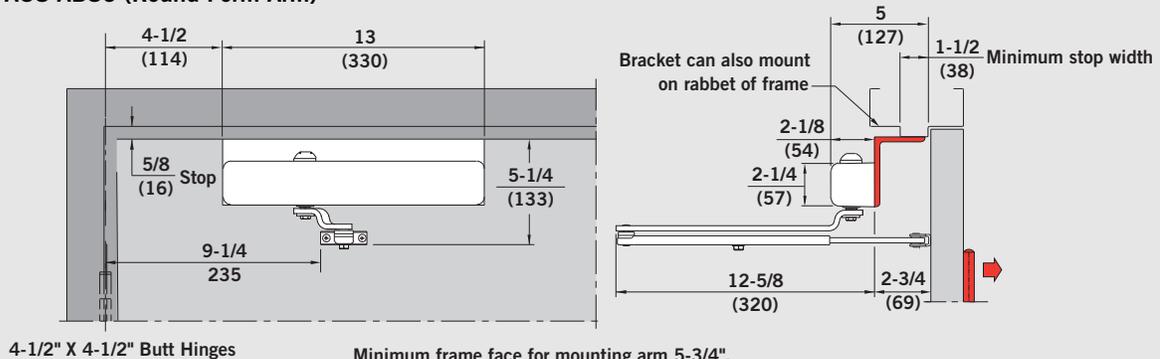
CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.
8616	INTERIOR	•	•	♿	•	•	•
	EXTERIOR	•	•	♿	•	•	N/A

TEMPLATE REFERENCE	DIM "A"	DIM "B"	REVEAL	ARM	APPROX. MAXIMUM OPENING	APPROX. BACKCHECK*	APPROX. DELAYED ACTION
TO 180°	4-1/2" (114)	9-1/4" (235)	0"	AF AR	180°	70°-180°	180°-60°
			4"	AF AR	180°	75°-180°	180°-70°
TO 180°	4-1/2" (114)	9-1/4" (235)	4"	AFJ ARJ	180°	75°-180°	180°-70°
			8"	AFJ ARJ	165°	80°-165°	165°-70°

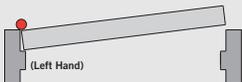
* Backcheck is advanced approximately 15° with positioning valve on.
Note: Bold type shows supplied arm.

Top Jamb x Flat Form Arm (or Round Form Arm) x Angle Bracket

8616 AF86 AB86 (Flat Form Arm – Shown)
8616 AR AB86 (Round Form Arm)
8616 A08 AB86 (Round Form Arm)



Minimum frame face for mounting arm 5-3/4".
Specify hand for optional full metal cover.
Backcheck positioning valve in "OFF" position.



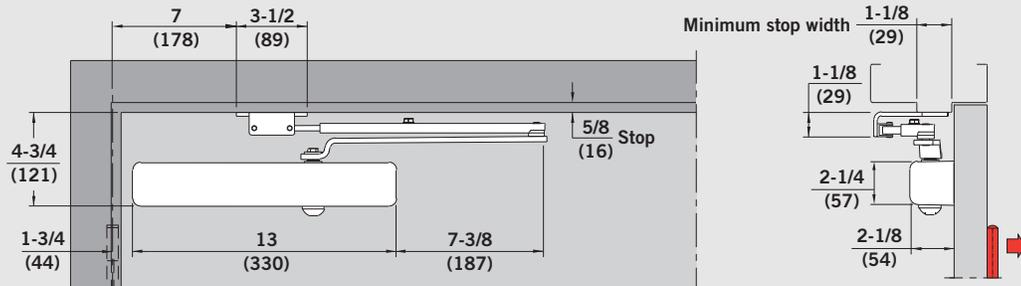
Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH						MAXIMUM OPENING	APPROX. BACKCHECK*	APPROX. DELAYED ACTION
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.			
8616	INTERIOR	•	•	♿	•	•	180°	70°-180°	180°-70°	
	EXTERIOR	•	•	♿	•	•				

* Backcheck is advanced approximately 15° with positioning valve on.

Parallel Arm × Flat Form Arm (or Round Form Arm)

8616 AF86P (Flat Form Arm – Shown)
 8616 ARP (Round Form Arm)
 8616 AO8P (Round Form Arm)
 (P86 bracket furnished standard)



4-1/2" x 4-1/2" Butt Hinges
 Minimum door rail for mounting closer 5-1/8" (5/8" stop shown).
 Minimum door rail to bottom of optional full cover 6-1/4" (5/8" stop shown).
 Backcheck positioning valve in "ON" position.

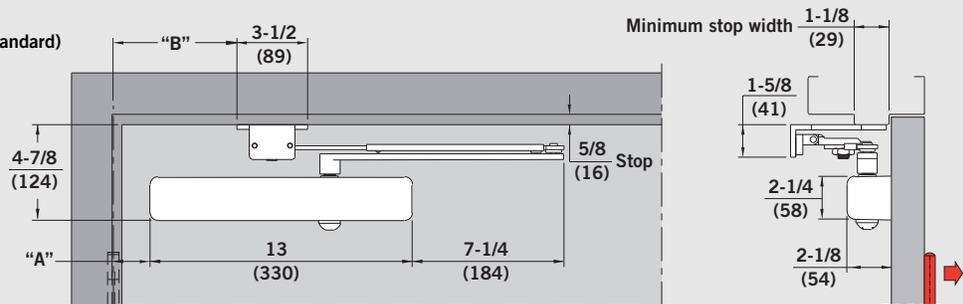


Size Selection Chart

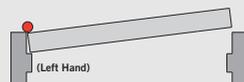
CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.				
8616	INTERIOR	•	•	♿	•	•	180°	60°-180°	180°-75°	24"
	EXTERIOR	•	•	♿	•	N/A				

Parallel Arm × Friction Hold Open

8616 FHP
 (PHB bracket furnished standard)



4-1/2" x 4-1/2" Butt Hinges
 Minimum door rail for mounting closer 4-7/8" (5/8" stop shown).
 Minimum door rail to bottom of slim plastic cover 5-3/8" (5/8" stop shown).
 Minimum door rail to bottom of optional full cover 6-3/8" (5/8" stop shown).
 Backcheck positioning valve in "ON" position.



Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					TEMPLATE REFERENCE	DIM "A"	DIM "B"	APPROX. MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MIN. HOLD OPEN	MAX. HOLD OPEN	MIN. DOOR WIDTH
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.									
8616	INTERIOR	•	•	♿	•	•	TO 100°	3-5/8" (92)	9" (228)	110°	65°-110°	110°-80°	45°	105°	29"
	EXTERIOR	•	•	♿	•	N/A									
							OVER 100°	1-1/8" (29)	6-1/2" (165)	180°	80°-180°	180°-95°	45°	175°	24"

Parallel Arm × Plunger Hold Open

8616 PHP
(P86 bracket furnished standard)

4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for mounting closer 5-1/4" (5/8" stop shown).
Minimum door rail to bottom of slim plastic cover 5-3/8" (5/8" stop shown).
Minimum door rail to bottom of optional full cover 6-3/8" (5/8" stop shown).
Backcheck positioning valve in "ON" position.

(Left Hand)

Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM HOLD OPEN	MAXIMUM HOLD OPEN	MINIMUM DOOR WIDTH
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.						
8616	INTERIOR	•	•	♿	•	•	180°	60°-180°	180°-75°	30°	130°	24"
	EXTERIOR	•	•	♿	•	N/A						

Parallel Arm × Flat Form Arm (or Round Form Arm) × DP86 Drop Plate

8616 AF86P DP86 (Flat Form Arm – Shown)
8616 ARP DP86 (Round Form Arm)
8616 AO8P DP86 (Round Form Arm)
(P86 bracket furnished standard)

4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for mounting drop plate 2-3/4" (5/8" stop shown).
Minimum door rail to bottom of optional full cover 6-1/4" (5/8" stop shown).
Backcheck positioning valve in "ON" position.

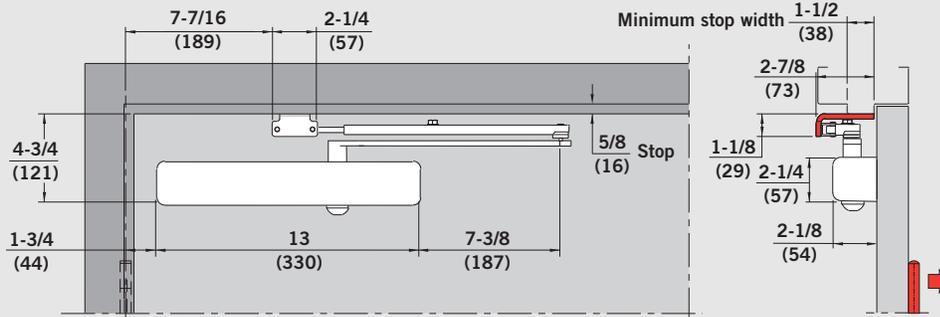
(Left Hand)

Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.				
8616	INTERIOR	•	•	♿	•	•	180°	60°-180°	180°-75°	24"
	EXTERIOR	•	•	♿	•	N/A				

Parallel Arm × Flat Form Arm (or Round Form Arm) × Mortised Jamb Bracket

8616 AF8MJ (Flat Form Arm – Shown)
 8616 AR MJ (Round Form Arm)
 8616 AO8 MJ (Round Form Arm)

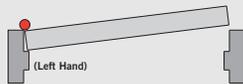


4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for mounting closer 5-1/8" (5/8" stop shown).
 Minimum door rail to bottom of slim plastic cover 5-1/4" (5/8" stop shown).
 Backcheck positioning valve in "ON" position.

Size Selection Chart

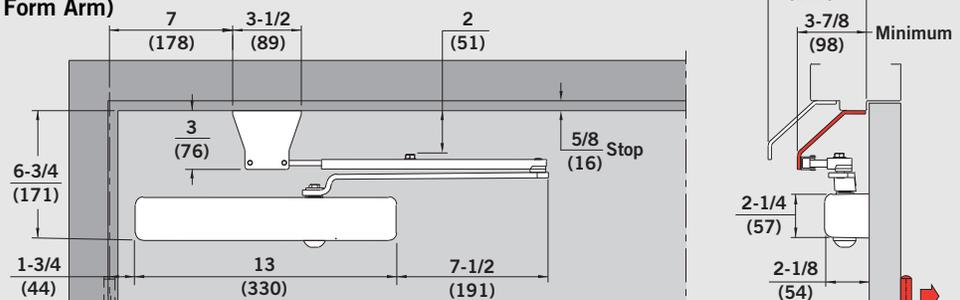
CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH				
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.
8616	INTERIOR	•	•	⊘	•	•
	EXTERIOR	•	•	⊘	•	N/A



MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
180°	60°-180°	180°-75°	24"

Parallel Arm × Flat Form Arm (or Round Form Arm) × Parallel Drop Bracket

8616 AF86 PD (Flat Form Arm – Shown)
 8616 AR PD (Round Form Arm)
 8616 AO8 PD (Round Form Arm)

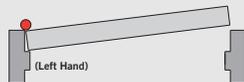


4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for mounting closer 6-3/8" (5/8" stop shown).
 Minimum door rail to bottom of slim plastic cover 6-1/2" (5/8" stop shown).
 Backcheck positioning valve in "ON" position.

Size Selection Chart

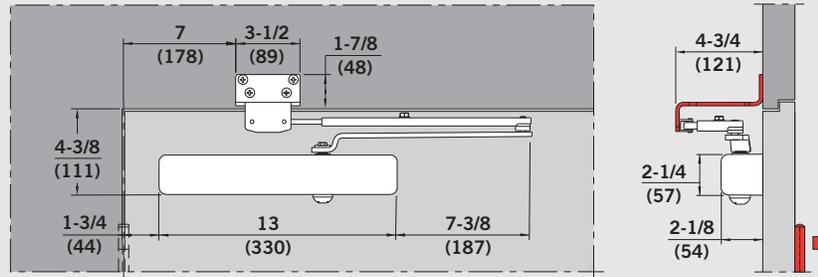
CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH				
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.
8616	INTERIOR	•	•	⊘	•	•
	EXTERIOR	•	•	⊘	•	N/A



MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
180°	60°-180°	180°-75°	24"

Parallel Arm × Flat Form Arm (or Round Form Arm) × Parallel Flush Transom Bracket

8616 AF86 PFT (Flat Form Arm – Shown)
 8616 AR PFT (Round Form Arm)
 8616 A08 PFT (Round Form Arm)



4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for mounting closer 4-1/8".
 Minimum door rail to bottom of slim plastic cover 4-1/4".
 Minimum door rail to bottom of optional full cover 5-1/4".
 Backcheck positioning valve in "ON" position.

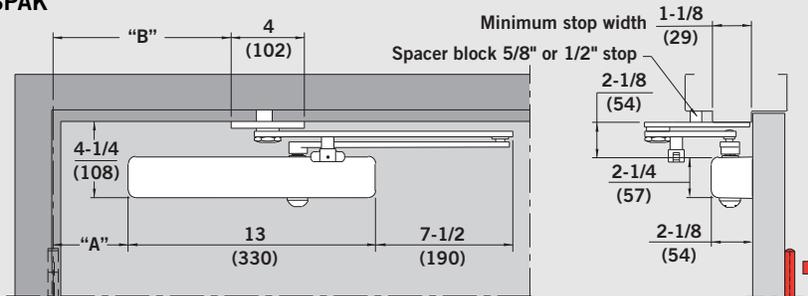


Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.				
8616	INTERIOR	•	•	♿	•	•	180°	60°-180°	180°-75°	24"
	EXTERIOR	•	•	♿	•	N/A				

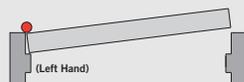
Heavy-Duty Super Parallel Arm

8616 SPA/SPAT/SPAK



4-1/2" x 4-1/2" Butt Hinges

Minimum stop width 1-1/8" (5/8" stop shown).
 Spacer block 5/8" or 1/2" stop.
 Minimum door rail for mounting closer 4-5/8" (5/8" stop shown).
 Minimum door rail to bottom of slim plastic cover 4-3/4" (5/8" stop shown).
 Minimum door rail to bottom of optional full cover 5-3/4" (5/8" stop shown).
 Backcheck positioning valve in "ON" position.



Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					ANGLE OF OPENING/ HOLD OPEN	DIM "A" CLOSER	DIM "B" SOFFIT PLATE	APPROX. MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.							
8616	INTERIOR	•	•	♿	•	•	TO 100° H.O. 90°	4-3/8" (111)	9-3/4" (248)	100°	60°-100°	100°-75°	26"
	EXTERIOR	•	•	♿	•	N/A	TO 180° H.O. 123°	3/4" (19)	6-1/4" (159)	180°	80°-180°	180°-95°	23"

Heavy-Duty Parallel Arm Door Saver x Cushion

8616 DS/DST/DSK

4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for mounting closer 4-5/8" (5/8" stop shown).
 Minimum door rail to bottom of slim plastic cover 4-3/4" (5/8" stop shown).
 Minimum door rail to bottom of optional full cover 5-3/4" (5/8" stop shown).
 Backcheck positioning valve in "ON" position.

(Left Hand)

TEMPLATE REFERENCE	DIM "A" CLOSER	DIM "B" SOFFIT PLATE	* CUSHION/HOLD OPEN	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
85°	4-5/8" (117)	10-5/8" (270)	85°	50°-85°	85°-65°	26"
90°	3-7/8" (98)	9-7/8" (251)	90°	55°-90°	90°-70°	25"
100°	2-5/8" (57)	8-5/8" (219)	100°	60°-100°	100°-75°	24"
110°	1-1/2" (38)	7-1/2" (191)	110°	65°-110°	110°-80°	23"

* Hold Open is approximately 1°-2° less than the cushion angle listed in the chart.

Size Selection Chart

CLOSER	INTERIOR/EXTERIOR	DOOR WIDTH				
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.
8616	INTERIOR	•	•	⊗	•	•
	EXTERIOR	•	•	⊗	•	N/A

Heavy-Duty Super Parallel Arm x Narrow Frame Bracket

8616 SPA/SPAT/SPAK NFHD

4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for mounting closer 4-5/8" (5/8" stop shown).
 Minimum door rail to bottom of slim plastic cover 4-3/4" (5/8" stop shown).
 Minimum door rail to bottom of optional full cover 5-3/4" (5/8" stop shown).
 Backcheck positioning valve in "ON" position.

(Left Hand)

ANGLE OF OPENING/HOLD OPEN	DIM "A" CLOSER	DIM "B" SOFFIT PLATE	APPROX. MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
TO 100° H.O. 90°	4-3/8" (111)	9-3/4" (248)	100°	60°-100°	100°-75°	26"
TO 180° H.O. 123°	3/4" (19)	6-1/4" (159)	180°	80°-180°	180°-95°	23"

Size Selection Chart

CLOSER	INTERIOR/EXTERIOR	DOOR WIDTH				
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.
8616	INTERIOR	•	•	⊗	•	•
	EXTERIOR	•	•	⊗	•	N/A

Heavy-Duty Parallel Arm Door Saver x Cushion x Narrow Frame Bracket

8616 DS/DST/DSK NFHD

4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for mounting closer 4-5/8" (5/8" stop shown).
 Minimum door rail to bottom of slim plastic cover 4-3/4" (5/8" stop shown).
 Minimum door rail to bottom of optional full cover 5-3/4" (5/8" stop shown).
 Backcheck positioning valve in "ON" position.

(Left Hand)

Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH				
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.
8616	INTERIOR	•	•	♿	•	•
	EXTERIOR	•	•	♿	•	N/A

TEMPLATE REFERENCE	DIM "A" CLOSER	DIM "B" SOFFIT PLATE	* CUSHION/HOLD OPEN	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
85°	4-5/8" (117)	10-5/8" (270)	85°	50°-85°	85°-65°	26"
90°	3-7/8" (98)	9-7/8" (251)	90°	55°-90°	90°-70°	25"
100°	2-5/8" (67)	8-5/8" (219)	100°	60°-100°	100°-75°	24"
110°	1-1/2" (38)	7-1/2" (191)	110°	65°-110°	110°-80°	23"

* Hold open is approximately 1°-2° less than the cushion angle listed in the chart.

Heavy-Duty Super Parallel Arm x Blade Stop Spacer

8616 SPA/SPAT/SPAK BSHD

4-1/2" x 4-1/2" Butt Hinges

Minimum frame surface 1-3/8" (35) from face of door
 Spacer block 2-1/8" (54)
 2-1/4" (57)
 2-1/8" (54)

Minimum door rail for mounting closer 4-1/2" (1/2" stop shown).
 Minimum door rail to bottom of slim plastic cover 4-5/8" (1/2" stop shown).
 Minimum door rail to bottom of optional full cover 5-5/8" (1/2" stop shown).
 Backcheck positioning valve in "ON" position.

(Left Hand)

Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					ANGLE OF OPENING/ HOLD OPEN	DIM "A" CLOSER	DIM "B" SOFFIT PLATE	APPROX. MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.							
8616	INTERIOR	•	•	♿	•	•	TO 100° H.O. 90°	4-3/8" (111)	9-3/4" (248)	100°	60°-100°	100°-75°	26"
	EXTERIOR	•	•	♿	•	N/A	TO 180° H.O. 123°	3/4" (19)	6-1/4" (159)	180°	80°-180°	180°-95°	23"

Heavy-Duty Parallel Arm Door Saver x Cushion x Blade Stop Spacer

8616 DS/DST/DSK BSHD

Minimum frame surface 1-3/8 (35) from face of door
Spacer block 2-1/8 (54)
2-1/4 (57)
2-1/8 (54)

4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for mounting closer 4-1/2" (1/2" stop shown).
Minimum door rail to bottom of slim plastic cover 4-5/8" (1/2" stop shown).
Minimum door rail to bottom of optional full cover 5-5/8" (1/2" stop shown).
Backcheck positioning valve in "ON" position.

Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					TEMPLATE REFERENCE	DIM "A" CLOSER	DIM "B" SOFFIT PLATE	* CUSHION/ HOLD OPEN	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.							
8616	INTERIOR	•	•	♿	•	•	85°	4-5/8" (117)	10-5/8" (270)	85°	50°-85°	85°-65°	26"
	EXTERIOR	•	•	♿	•	N/A	90°	3-7/8" (98)	9-7/8" (251)	90°	55°-90°	90°-70°	25"
	INTERIOR	•	•	♿	•	•	100°	2-5/8" (67)	8-5/8" (219)	100°	60°-100°	100°-75°	24"
	EXTERIOR	•	•	♿	•	N/A	110°	1-1/2" (38)	7-1/2" (191)	110°	65°-110°	110°-80°	23"

* Hold Open is approximately 1°-2° less than the cushion angle listed in the chart.

Heavy-Duty Super Parallel Arm x Flush Transom Bracket

8616 SPA/SPAT/SPAK FTHD

4-1/2" x 4-1/2" Butt Hinges

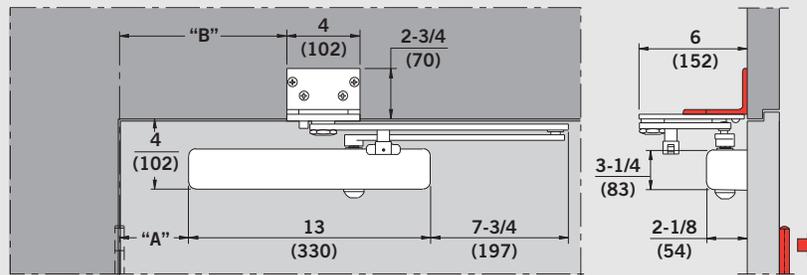
Minimum door rail for mounting closer 3-3/4" (5/8" stop shown).
Minimum door rail to bottom of slim plastic cover 3-7/8" (5/8" stop shown).
Backcheck positioning valve in "ON" position.

Size Selection Chart

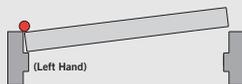
CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					ANGLE OF OPENING/ HOLD OPEN	DIM "A" CLOSER	DIM "B" (F102) BRACKET	APPROX. MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.							
8616	INTERIOR	•	•	♿	•	•	TO 100° H.O. 90°	4-3/8" (111)	9-3/4" (248)	100°	60°-100°	100°-75°	26"
	EXTERIOR	•	•	♿	•	N/A	TO 180° H.O. 123°	3/4" (19)	6-1/4" (159)	180°	80°-180°	180°-95°	23"

Heavy-Duty Parallel Arm Door Saver x Cushion x Flush Transom Bracket

8616 DS/DST/DSK FTHD



4-1/2" x 4-1/2" Butt Hinges
 Minimum door rail for mounting closer 3-3/4" (5/8" stop shown).
 Minimum door rail to bottom of slim plastic cover 3-7/8" (5/8" stop shown).
 Backcheck positioning valve in "ON" position.



Size Selection Chart

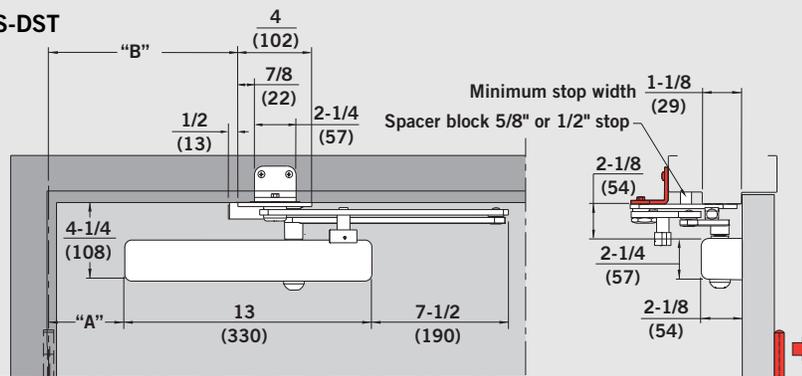
CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH				
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.
8616	INTERIOR	•	•	♿	•	•
	EXTERIOR	•	•	♿	•	N/A

TEMPLATE REFERENCE	DIM "A" CLOSER	DIM "B" (FT102) BRACKET	* CUSHION/HOLD OPEN	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
85°	4-5/8" (117)	10-5/8" (270)	85°	50°-85°	85°-65°	26"
90°	3-7/8" (98)	9-7/8" (251)	90°	55°-90°	90°-70°	25"
100°	2-5/8" (67)	8-5/8" (219)	100°	60°-100°	100°-75°	24"
110°	1-1/2" (38)	7-1/2" (191)	110°	65°-110°	110°-80°	23"

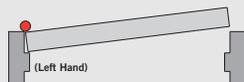
* Hold Open is approximately 1°-2° less than the cushion angle listed in the chart.

Heavy-Duty Parallel Arm x Spring Stop Door Saver

8616 S-DS/S-DST



4-1/2" x 4-1/2" Butt Hinges
 Minimum door rail for mounting closer 4-5/8" (5/8" stop shown).
 Minimum door rail to bottom of slim plastic cover 4-3/4" (5/8" stop shown).
 Minimum door rail to bottom of optional full cover 5-3/4" (5/8" stop shown).
 Backcheck positioning valve in "ON" position.



Size Selection Chart

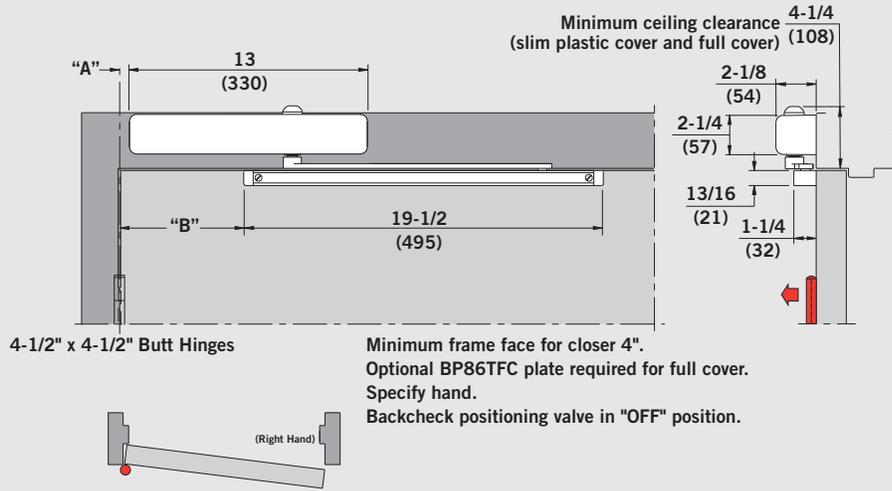
CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH				
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.
8616	INTERIOR	•	•	♿	•	•
	EXTERIOR	•	•	♿	•	N/A

TEMPLATE REFERENCE	DIM "A" CLOSER	DIM "B" SOFFIT BRACKET	* DEAD STOP/HOLD OPEN	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
85°	4-5/8" (117)	10-5/8" (270)	85°	50°-85°	85°-65°	26"
90°	3-7/8" (98)	9-7/8" (251)	90°	55°-90°	90°-70°	25"
100°	2-5/8" (67)	8-5/8" (219)	100°	60°-100°	100°-75°	24"
110°	1-1/2" (38)	7-1/2" (191)	110°	65°-110°	110°-80°	23"

* Hold Open is approximately 5°-7° less than the dead stop angle listed in the chart.

Track - Pull Side Door Mounted

8616 T
8616 TH



Size Selection Chart

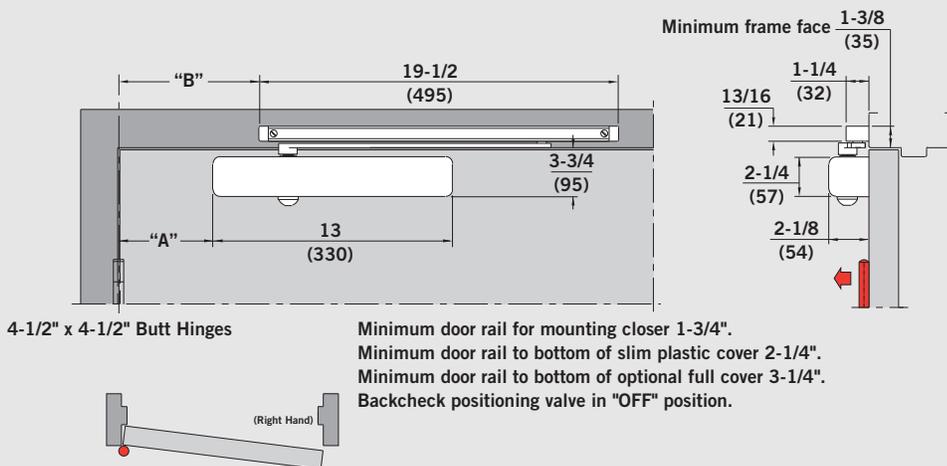
CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH			
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.
8616	INTERIOR	•	•	⊗	•
	EXTERIOR	•	•	⊗	N/A

TEMPLATE REFERENCE	DIM "A"	DIM "B"	CUSHION	MAXIMUM HOLD OPEN	APPROX. BACKCHECK*	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
85°	7/8" (22)	9-7/8" (251)	85°	83°	65°-85°	85°-65°	31"
90°	7/8" (22)	8-7/8" (225)	90°	88°	65°-90°	90°-65°	30"
110°	-3/8" (-10)	7" (178)	110°	108°	70°-110°	110°-70°	27"
180°	-7/8" (-22)	4-3/8" (111)	180°	160°	80°-180°	180°-80°	25"

* Backcheck is advanced approximately 15° with positioning valve on.

Jamb Track - Pull Side Frame Mounted

8616 JT
8616 JTH



Size Selection Chart

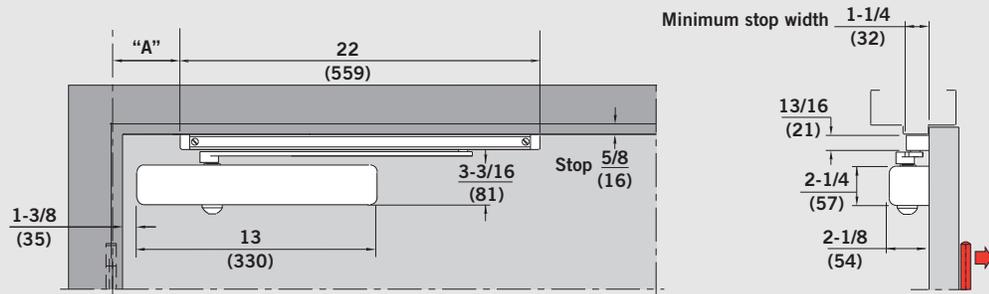
CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH			
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.
8616	INTERIOR	•	•	⊗	•
	EXTERIOR	•	•	⊗	N/A

TEMPLATE REFERENCE	DIM "A"	DIM "B"	CUSHION	MAXIMUM HOLD OPEN	APPROX. BACKCHECK*	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
85°	6" (152)	8" (203)	85°	80°	60°-85°	85°-60°	31"
90°	5-1/2" (140)	7-1/2" (191)	90°	85°	65°-90°	90°-65°	30"
110°	4-1/4" (108)	5-3/4" (146)	110°	100°	80°-110°	110°-80°	28"
175°	3-3/4" (95)	3-3/4" (95)	175°	145°	95°-180°	175°-95°	25"

* Backcheck is advanced approximately 15° with positioning valve on.

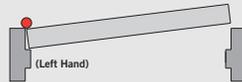
Push Track - Push Side Soffit Mounted

8616 PT86
8616 PT86H



4-1/2" x 4-1/2" Butt Hinges

Minimum door rail for mounting closer 4-3/8".
Minimum door rail to bottom of slim plastic cover 4-1/2".
Minimum door rail to bottom of optional full cover 5-1/2".
Backcheck positioning valve in "OFF" position.



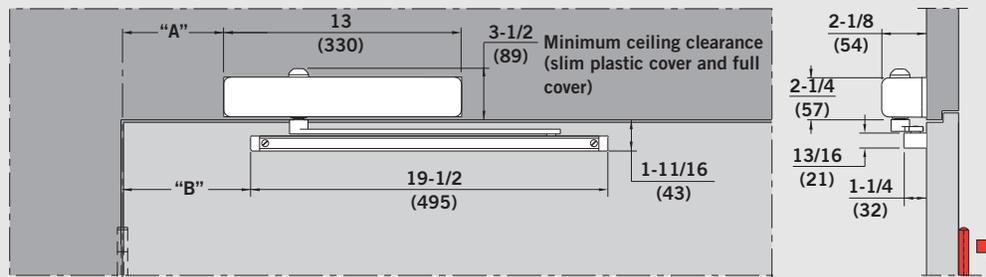
Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH			TEMPLATE REFERENCE	DIM "A"	CUSHION	MAXIMUM HOLD OPEN	APPROX. BACKCHECK*	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
		2'-6" min.	3'-0" max.	3'-6" max.							
8616	INTERIOR	•	♿	•	85°	9" (228)	85°	82°	65°-85°	85°-65°	32"
	EXTERIOR	•	♿	N/A	90°	7-3/8" (187)	90°	87°	65°-90°	90°-65°	30"
					100°	5-3/8" (136)	100°	97°	65°-100°	100°-65°	28"

* Backcheck is advanced approximately 15° with positioning valve on.

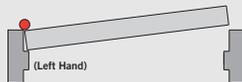
Flush Track - Push Side Door Mounted x Backplate

8616 FT BP86T
8616 FTH BP86T



4-1/2" x 4-1/2" Butt Hinges

Minimum transom surface for BP86T or optional plates 1-15/16".
Optional BP86FTFC plate required for full cover.
Specify hand for optional full cover.
Backcheck positioning valve in "OFF" position.



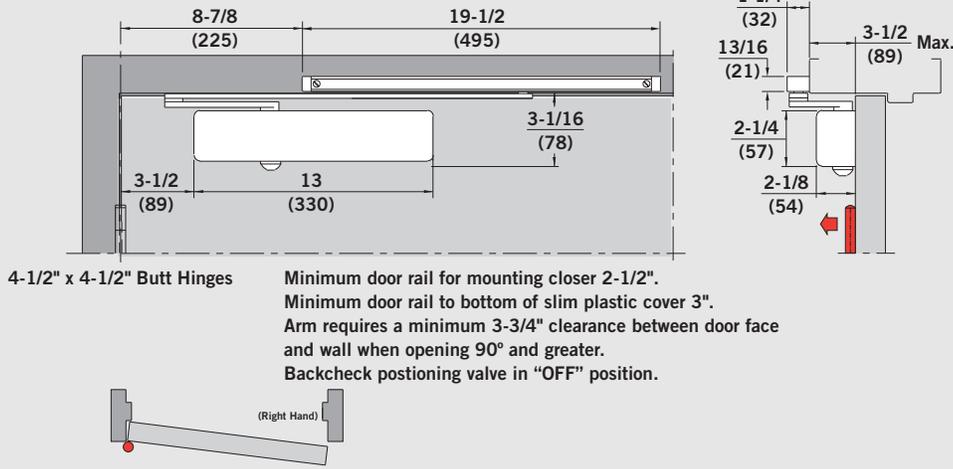
Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH			TEMPLATE REFERENCE	DIM "A"	DIM "B"	CUSHION	MAXIMUM HOLD OPEN	APPROX. BACKCHECK*	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
		2'-0" min.	2'-6" max.	3'-0" max.								
8616	INTERIOR	•	•	♿	85°	4-7/8" (124)	6-7/8" (175)	85°	82°	60°-85°	85°-60°	29"
	EXTERIOR	•	•	♿	90°	4-3/8" (111)	6-5/8" (168)	90°	87°	65°-90°	90°-65°	28"
					110°	3-3/8" (86)	5-1/4" (133)	110°	105°	75°-110°	110°-75°	26"
					140°	2-3/8" (60)	4-1/2" (114)	135°	125°	85°-135°	135°-85°	25"

* Backcheck is advanced approximately 15° with positioning valve on.

Track Double Egress - Pull Side Frame Mounted

8616 TDE
8616 TDEH



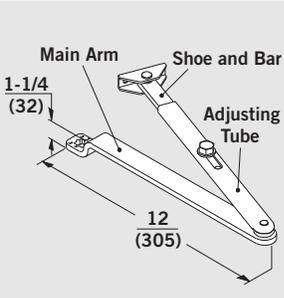
4-1/2" x 4-1/2" Butt Hinges
Minimum door rail for mounting closer 2-1/2".
Minimum door rail to bottom of slim plastic cover 3".
Arm requires a minimum 3-3/4" clearance between door face and wall when opening 90° and greater.
Backcheck positioning valve in "OFF" position.

Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH 2'-6" min. 3'-0" max. 3'-6" max.	TEMPLATE REFERENCE	CUSHION	MAXIMUM HOLD OPEN	APPROX. BACKCHECK*	APPROX. DELAYED ACTION	MINIMUM DOOR WIDTH
8616	INTERIOR EXTERIOR	• • •	125°	125°	110°	70°-125°	125°-70°	30"

* Backcheck is advanced approximately 15° with positioning valve on.

Flat Form Arm



Standard flat-arm for 8600 Series closers. Arm is non-handed.

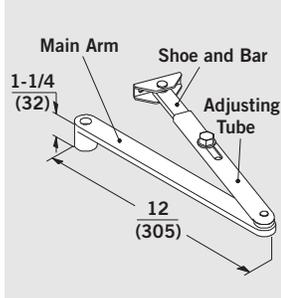
AF86 — Flat form complete arm for regular, top jamb (0"–4" [0 mm–102 mm] reveal) and parallel arm.

AF86J — Flat form arm complete for top jamb (4"–8" [102 mm–203 mm] reveal).

AF86P — Parallel flat form complete (Tri-Pack) (0"–4" [0 mm–102 mm] reveal). P86 included.

AMF86 — Regular flat form main arm and adjusting tube.

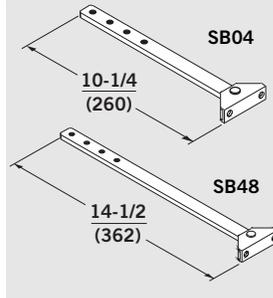
Flat Form Arm for MJ



AF8MJ — Regular flat form arm complete for use with MJ (mortise jamb) bracket. MJ bracket ordered separately.

MJ bracket ordered separately.

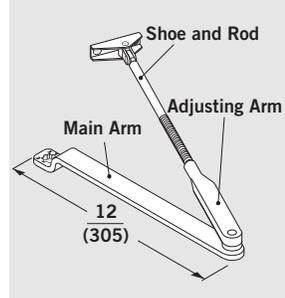
Flat Form Arm Shoe and Bar



SB04 — 0"–4" (0 mm–102 mm) reveal. Shoe and bar only.

SB48 — 4"–8" (102 mm–203 mm) reveal. Shoe and bar only. SB04 and SB48 must be used in conjunction with AMF86. Non-handed.

Round Form Arm (8 mm rod)

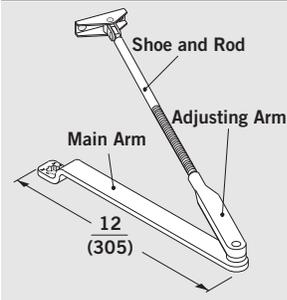


AR — Complete arm assembly (0"–4" [0 mm–102 mm] reveal) with 8 mm rod. Optional arm with 8600 Series closers. Arm is non-handed.

ARP — Parallel round form arm complete (Tri-Pack) (0"–4" [0 mm–102 mm] reveal). P86 included.

AMR04 — Regular non-hold open main arm and adjusting arm. Accepts 8 mm rod.

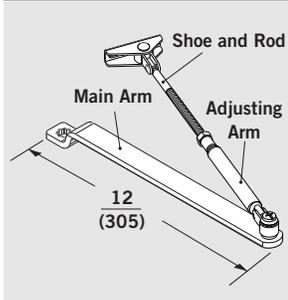
Round Form Arm (10 mm rod)



ARJ — Complete arm assembly (4"–8" [102 mm–203 mm] reveal) with (10 mm) rod. Designed specifically for top jamb applications with deeper reveals. Arm is non-handed.

AMR48 — Regular non-hold open main arm and adjusting arm. Accepts 10 mm rod.

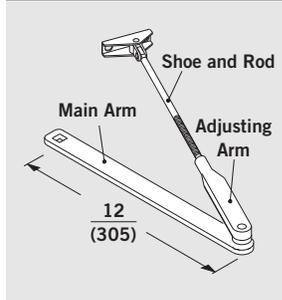
Round Form Arm (8 mm rod)



A08 — Complete secured elbow arm non-hold open assembly (0"–4" [0 mm–102 mm] reveal) with 8 mm rod. Optional arm with 8600 Series closers. Arm is non-handed.

A08P — Parallel round form arm secured elbow non-hold open complete (Tri-Pack) (0"–4" [0 mm–102 mm] reveal). P86 included.

Narrow Profile Arm (8 mm)

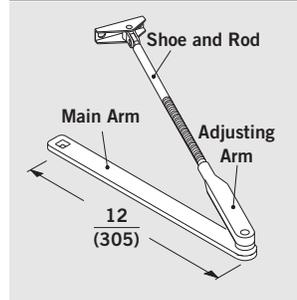


ARNP — Complete arm assembly. Regular or top jamb mount. Permits installation on 1" (25 mm) frame face for regular mount with maximum pull-side reveal of 1/8" (3 mm). Can also be used top jamb (0"–4" [0 mm–102 mm] reveal) for narrow top door rails. Arm is non-handed.

ARNPP — Complete arm assembly for parallel arm mount (Tri-Pack). (0"–4" [0 mm–102 mm] reveal). P86 included.

AMR04NP — Narrow profile main arm and adjusting arm. Used in conjunction with SR04 shoe and rod. Uses 8 mm rod.

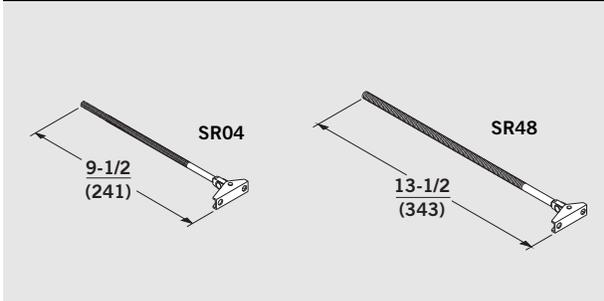
Narrow Profile Arm (10 mm)



ARNPJ — Complete arm assembly for top jamb installations (4"–8" [102 mm–203 mm] reveal) for narrow top door rails. Arm is non-handed.

AMR48NP — Narrow profile main arm and adjusting arm. Used in conjunction with SR48 shoe and rod. Uses 10 mm rod.

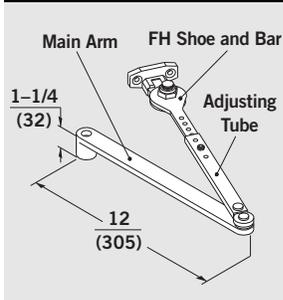
Regular Arm Shoe and Rod



SR04 (8 mm Rod Diameter) (0"–4" [0 mm–102 mm] reveal). Shoe and rod only.

SR48 (10mm Rod Diameter) (4"–8" [102 mm–203 mm] reveal). Shoe and rod only.

SR04 has an 8 mm rod and must be used in conjunction with main arm and adjusting arm AMR04. The SR48 has a 10 mm rod and must be used with main arm and adjusting arm AMR48. Non-handed.

Friction Hold Open Arm

Provides a hold open function between approximately 90° and 180° of door opening (conditions permitting). Arm is non-handed.

FH — Friction hold open arm complete (0"–4" [0 mm–102 mm] reveal).

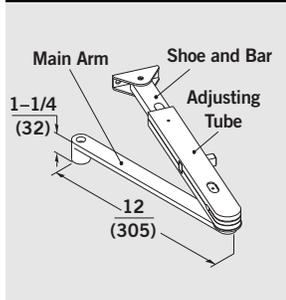
FHJ — Top jamb friction hold open arm complete (4"–8" [102 mm–203 mm] reveal).

FHP — Friction hold open arm complete (Tri-Pack) (0"–4" [0 mm–102 mm] reveal). PHB included.

FHM04 — Friction hold open main arm and adjusting tube (0"–4" [0 mm–102 mm] reveal).

FHM48 — Friction hold open main arm and adjusting tube (4"–8" [102 mm–203 mm] reveal).

FHSB — Friction hold open shoe and bar.

Plunger Hold Open Arm

Provides a hold open function at a selected point within a range from approximately 30°–150° (conditions and installation applications permitting). Ideal for doors frequently placed in and out of hold open. Arm is non-handed.

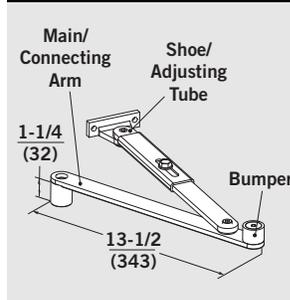
PH — Plunger hold open arm complete regular or top jamb mount (0"–1-1/2" [0 mm–38 mm] reveal).

PHP — Plunger hold open arm complete parallel arm or top jamb mount (1-1/2"–3-1/2" [38 mm–89 mm] reveal).

PHM — Plunger hold open main arm and adjusting tube.

PHSB — Plunger hold open shoe and bar regular and top jamb mount (0"–1-1/2" [0 mm–38 mm] reveal).

PHSBP — Plunger hold open shoe and bar parallel arm or top jamb mount (1-1/2"–3-1/2" [38 mm to 89 mm] reveal).

Cushion IS Arm

Provides a cushioned opening function for regular and top jamb applications at 85°, 90°, 95°, 100°, 105°, and 110°. Arm is non-handed.

IS — Cushion IS arm complete (0"–3-1/2" [0 mm–89 mm] reveal).

ISJ — Cushion IS top jamb arm complete (3-1/2"–6-1/2" [89 mm–165 mm] reveal).

ISH — Cushion IS hold open arm complete (0"–3-1/2" [0–89 mm] reveal).

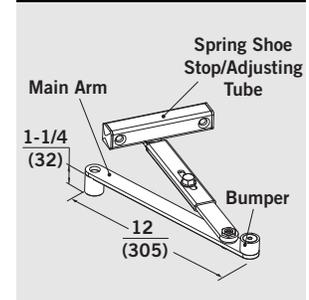
ISJH — Cushion IS top jamb hold open arm complete.

(3-1/2"–6-1/2" [89 mm–165 mm] reveal).

Cushion IS/Spring Stop IS Arm Accessories

SISM — Cushion IS/spring stop IS main arm and connecting arm. (0"–3-1/2" [0 mm–89 mm] reveal).

SISJM — Cushion IS/spring stop IS top jamb main arm and connecting arm. (3-1/2"–6-1/2" [89 mm–165 mm] reveal).

Spring Stop IS Arm

Provides a spring assisted dead stop function for regular and top jamb applications at 85°, 90°, 100°, and 110°. Arm is non-handed.

S-IS — Spring assist integra stop arm complete (0"–3-1/2" [0 mm–89 mm] reveal).

S-ISH — Spring assist integra stop hold open complete (0"–3-1/2" [0 mm–89 mm] reveal).

S-ISJ — Spring assist top jamb integra stop arm complete (3-1/2"–6-1/2" [89 mm–165 mm] reveal).

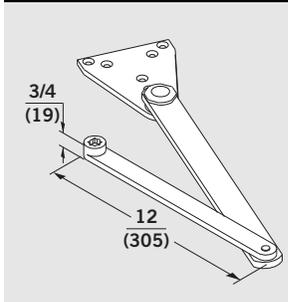
S-ISJH — Spring assist top jamb integra stop hold open arm complete (3-1/2"–6-1/2" [89 mm–165 mm] reveal).

ISSB — Cushion IS spring shoe stop and adjusting tube.

BUMPER IS — Cushion IS/spring stop IS urethane bumper.

S-SPRING IS — Spring shoe stop assembly complete.

Super Parallel Arm



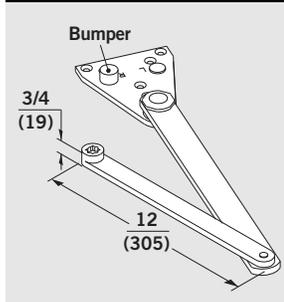
Heavy-duty parallel arm. Available in non-hold open, thumb turn hold open, and hex key turn hold open. Units can be installed for maximum opening of 100° or 180°. Hold open units will hold open at 90° or 125°. Maximum opening is 180° (conditions permitting). Arm is non-handed. Non-hold open arm illustrated.

SPA — Super parallel arm non-hold open.

SPAT — Super parallel arm thumb turn hold open.

SPAK — Super parallel arm hex key turn hold open.

Door Saver Arm



Heavy-duty parallel arm with integral cushioned opening function. Available in non-hold open, thumb turn hold open, and hex key turn hold open. Units can be installed to achieve either stop or stop and hold open at 85°, 90°, 100°, and 110°. Maximum opening is 110° (conditions permitting). Arm is non-handed. Non-hold open arm illustrated.

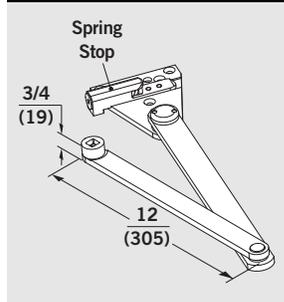
DS — Door saver arm non-hold open.

DST — Door saver arm thumb turn hold open.

DSK — Door saver arm hex key turn hold open.

BUMPERDS — Door saver bumper only.

Spring Stop Door Saver Arm



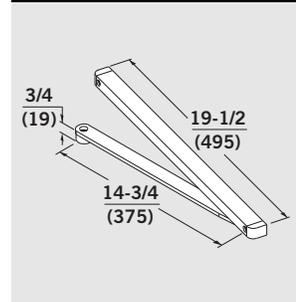
Heavy-duty parallel arm with spring assisted dead stop function. Available in non-hold open and thumb turn hold open. Units can be installed to achieve either stop or stop and hold open at 85°, 90°, 100°, and 110°. Maximum opening is 110° (conditions permitting). Arm is non-handed. Non-hold open arm illustrated.

S-DS — Spring assist door saver arm.

S-DST — Spring assist door saver arm thumb turn hold open.

S-SPRING DS — Spring stop assembly complete.

Track Arm

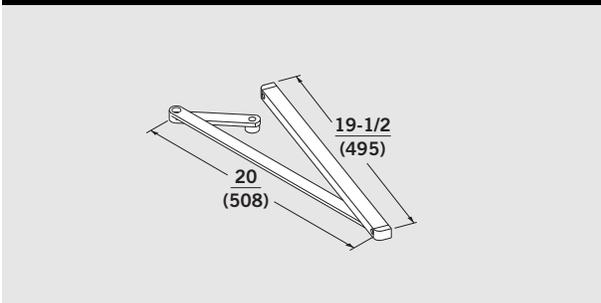


Provides slide track function for improved aesthetics and vandal resistance. Units can be installed to provide 85°, 90°, 110°, or 180° of door opening (conditions and application permitting). Arm is non-handed.

T — Track arm complete. Can be used on pull-side T applications (closer on door, track on frame) and JT applications (track on frame, closer on door). Can also be used with FT flush transom applications (closer on transom, track on door).

TH — Track hold open arm complete. Can be used in same applications as T arm. Range of hold open and maximum opening varies with mounting application.

TDE Track Arm



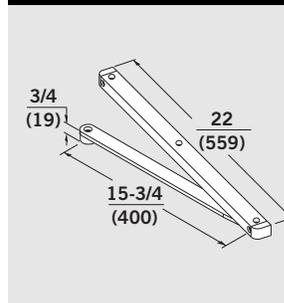
Provides slide track function for pull-side reveal conditions up to 3-1/2". Provides 125° of door opening (conditions permitting). Arm is handed. Also available with hold open option to provide selective single point hold open between 30° and 110°.

Arm requires a minimum 3-3/4" clearance between door face and wall when opened 90° and greater.

TDE — Double egress track arm complete.

TDEH — Double egress hold open track arm complete.

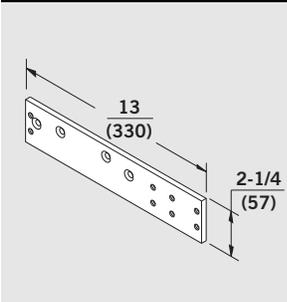
Push Side Track Arm



PT86 — Push-side track arm complete. Used with PT track applications (closer on door, track on soffit).

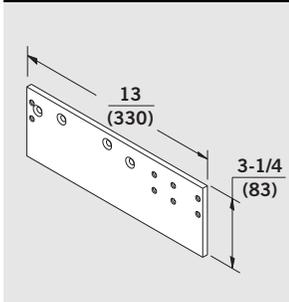
PT86H — Push-side track hold open arm complete. Used with PT track applications (closer on door, track on soffit).

Backplate



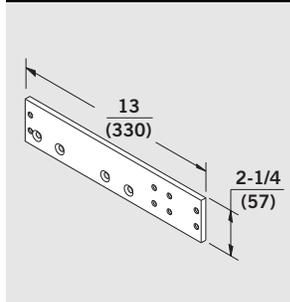
BP86 — For top jamb mount of 8600 Series closers when overhead ceiling clearance is less than 2-1/4" (57 mm) or for regular mount to clear a mortised stop/holder.

Backplate



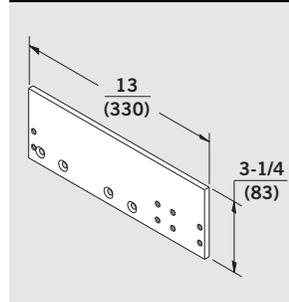
BP86FC — For top jamb mount with a full cover when overhead ceiling clearance is less than 2-1/4" (57 mm) or for regular mount to clear a mortised stop/holder.

Backplate



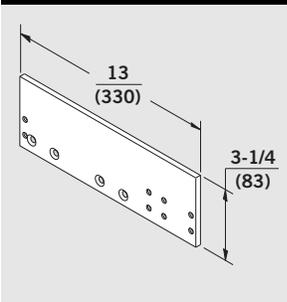
BP86T — For use with pull-side track applications (closer on frame face, track on door) to permit installation on a standard 2" (51 mm) frame face.

Backplate



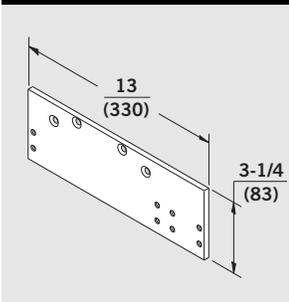
BP86TFC — For use with pull-side track applications with full cover (closer on frame face, track on door) to permit installation on a standard 2" (51 mm) frame face.

Backplate



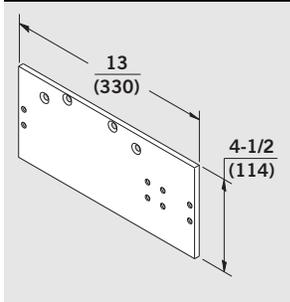
BP86FTFC — Required for track mount with full cover when being used on a flush transom (closer on transom, track on door). Mounting holes in the plate avoid rabbet on door.

Drop Plate



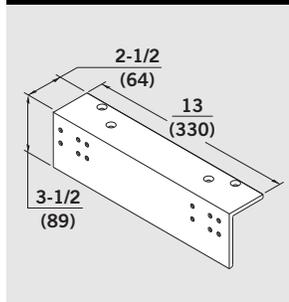
DP86 — For top jamb mount of 8600 Series closers with COV, FC, FCSL, or FMC when overhead ceiling clearance is less than 1-7/8" (48 mm) or to provide clearance for a surface-applied stop/holder. Permits parallel arm installation with a minimum top door rail of 2-1/2" (64 mm) for non-hold open, 2-5/8" (67 mm) for friction, fusible link and plunger hold open applications (assuming 5/8" [16 mm] stop dimension).

Drop Plate



DP86FC — Permits parallel arm installation with minimum top door rail of 2-1/2" (64 mm) for non-hold open, 2-5/8" (67 mm) for friction, fusible link, and plunger hold open applications (assuming 5/8" [16 mm] stop dimension).

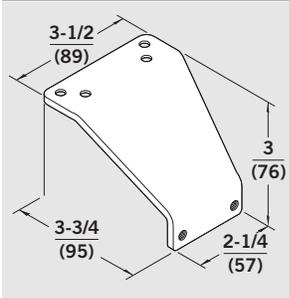
Angle Bracket



AB86 — For installation of 8600 Series closers where parallel arm and top jamb applications are not practical due to low overhead ceiling clearance, narrow frame face, or unusual trim conditions. This bracket can also be used to provide clearance for a surface-applied stop/holder.

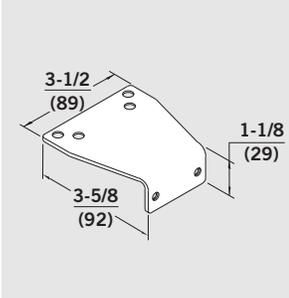
*Overhead ceiling clearance is measured from bottom of frame face to ceiling.

Parallel Drop Bracket



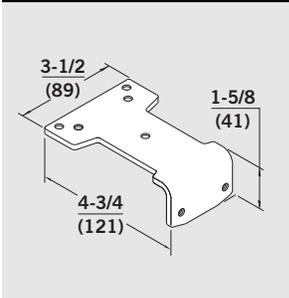
PD — For 8600 Series closer non-hold open parallel arm applications to clear a surface-applied stop/holder.

Parallel Arm Bracket



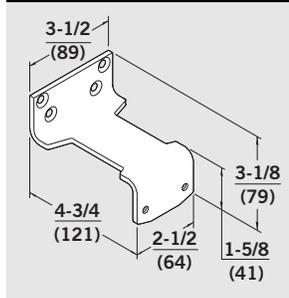
P86 — Furnished standard with 8600 Series closer non-hold open and plunger hold open parallel arm applications.

Parallel Hold Open Bracket



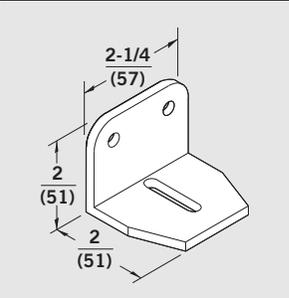
PHB — Furnished standard with 8600 FHP closer friction hold open parallel arm applications. Spacer block furnished standard for use with narrow stop applications.

Parallel Flush Transom Bracket



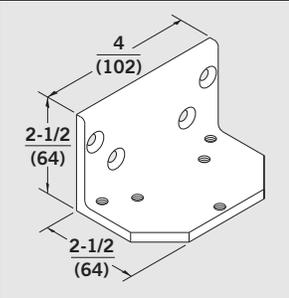
PFT — For all hold open and non-hold open parallel arm installations where flush transom conditions prohibit use of P86 or PHB bracket.

Narrow Frame Bracket



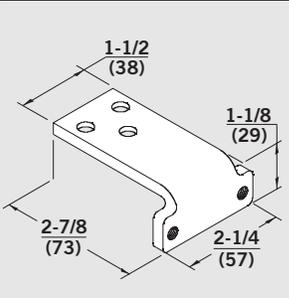
NFHD — For use with all DS and SPA applications where total frame depth is less than 4-1/2" (114 mm), prohibiting use of standard spacer block. NFHD bracket is used in lieu of block supplied with arm.

Flush Transom Bracket



FTHD — For use with all DS and SPA applications where flush transom conditions prohibit normal installation of soffit bracket.

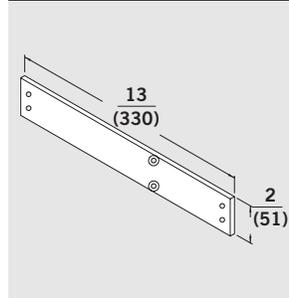
Mortised Jamb Bracket



MJ — For 8600 Series closers with regular mount non-hold open assemblies where frame conditions will not permit use of the standard foot, e.g. molded or ornate trim. Permits use of parallel arm application between twin communicating doors where limited space prohibits use of the wider P86 bracket.

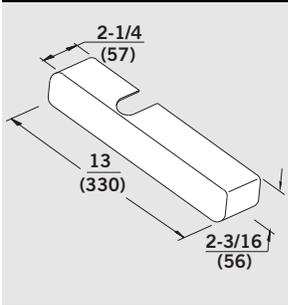
Flat form arm applications must use MJ in combination with AF8MJ arm.

Conversion Plate



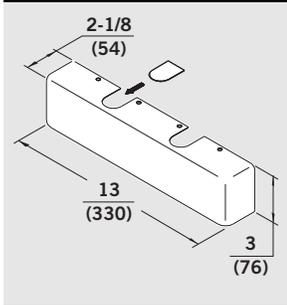
BP86C — For regular, top jamb, or parallel arm mounts. Permits replacement of existing 7600 Series closers with 8600 closers. Eliminates the need to remachine the door and frame.

Slim Plastic Cover



COV — Slim plastic cover furnished standard with 8600 Series closers.

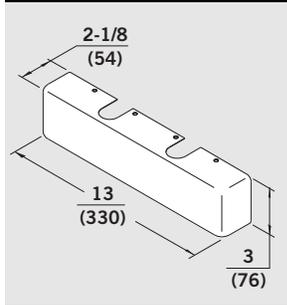
Full Plastic Cover



FC — Full plastic cover with interchangeable tab.

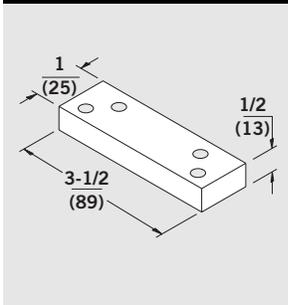
FCSL — Full plastic slotted cover with interchangeable tab. Mounting holes slotted for low ceiling conditions.

Full Metal Cover



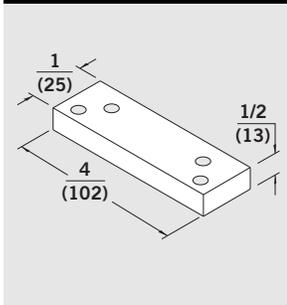
FMC — Full metal cover. Specify hand for top jamb, T track, and FT track applications.

Blade Stop Spacer



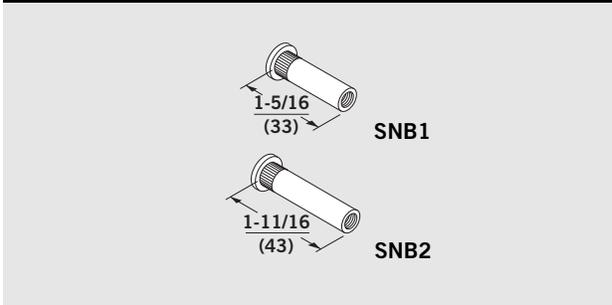
BS — For use with all 8600 Series P86, PD, and PHB applications installed on cased frames with applied blade stops. This block is used to provide adequate clearance for the blade stop.

Heavy-Duty Blade Stop Spacer



BSHD — For use with all 8600 Series DS and SPA applications installed on cased frames with applied blade stops. This block is used in conjunction with the spacer furnished with the arm to provide adequate clearance for the blade stop.

Sex Nuts



SNB1 — Sex nuts with machine screws for 1-3/4" (44 mm) door.

SNB2 — Sex nuts with machine screws for 1-3/8" (35 mm) door.

Required for use on unreinforced doors and wood or composite labeled fire doors for securely attaching hardware to the door.



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