



Surface Applied Door Closers

DORMA 8900

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ISO 9001:2000



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

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



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The 8900 Series heavy-duty, 10 million cycle closers represent the latest in door control technology, combining over a quarter century of proven performance with its hydraulic control system and modern architecturally styled aesthetics.

Featuring full range spring power adjustment and backcheck, along with a narrow projection full cover and flatform style arm, the 8900 Series results in the perfect combination of durability, reliability, and appearance.

Doors and their adjacent structures are expensive and should be protected by controlled door opening. The 8900 Series hydraulic backcheck feature does exactly that, with its valve adjustment for backcheck intensity. In addition to the backcheck feature, a **backcheck positioning** adjustment for parallel arm applications provides a consistent backcheck range similar to regular and top jamb applications.

Combined, these superior features exceed most demands placed on a door closer, plus it's all backed by DORMA's 25-year warranty. The 8900 Series, with the fully adjustable spring, also meets barrier-free accessibility requirements.

Technical Details:

- Available as 8916 closers for interior and exterior barrier-free requirements (adjustable size 1–6).
- Available as 8956 closers for exceptionally wide, tall, or heavy doors (adjustable size 5 to 6 +50% adjustment).
- Backcheck feature prevents uncontrolled opening of the door by providing an intensity adjustable hydraulic cushioning.
- Backcheck positioning valve to maintain effective backcheck range on parallel arm applications.
- Optional delayed action adjustable with a separate independent valve. Extends the closing cycle to allow unobstructed passage through the opening.
- Designed to minimize change in closing speed during severe temperature changes.
- Tamper-resistant valve adjustments, including backcheck positioning, accessible with the closer installed.
- Non-handed for regular, top jamb, and parallel arm applications.
- Impact resistant, full plastic cover standard. Full metal cover optional.
- Heavy-duty, aesthetically pleasing, and easy to adjust steel arm assembly.
- A full complement of optional arms, plates, and brackets available for special applications.
- SN1 sex nuts for 1-3/4" thick doors included standard.
- Available with optional self-drilling screws for steel door and frame applications (DPK89)
- Available with optional self-tapping screws for aluminum door and frame applications (TPK89).

Features	8916	8956
Adjustable spring size	1–6	5-6 +50%
Controlled closing with	180°-15°	180°-15°
two adjustment valves	15°-0°	15°-0°
Backcheck	•	•
Backcheck positioning valve	•	•
SN1 sex nuts for 1-3/4" thick	•	•
doors included		
Hydraulic delayed action	0	0
Self-drilling screws	0	0
Self-tapping screws	0	0
Tamper-resistant TORX screws	0	0

yes ○ optional

Certification:

The DORMA 8900 Series is listed by U.L. and C.U.L. under their continuing reinspection programs. The 8900 Series is certified to the requirements of ANSI A156.4 Grade 1. Meets the requirements for UL10C and UBC 7.2 (1997) for positive pressure. The 8916 version meets the requirements of ANSI A117.1 and ADA for barrier-free accessibility. California State Fire Marshall (CSFM) approved.

Specification:

The heavy-duty 8900 Series non-handed surface applied closer with adjustable spring power and backcheck positioning adjustment. The 8900 has intensity adjustable hydraulic backcheck that will take effect at approximately 65°. The 8900 has two independent, noncritical adjustment valves to control sweep and latch closing speeds. The backcheck positioning valve maintains an effective backcheck range on parallel arm applications. The 8916 will be available with field adjustable spring power from size 1 to 6 for barrier-free requirements. The 8956 will be adjustable size 5 to 6 +50% additional closing force over the size 6.

Optional Specifications:

The 8900 Series closer will have optional delayed action. Delayed action range will be effective from maximum opening to approximately 65°. All 8916 and 8956 SPA, SPAT, and SPAK to have (ABP) Advanced Backcheck Position to advance backcheck to approximately 45°. All 8900 closers to have full metal covers. All 8900 closers to have sex nuts with machine screws for 1-3/8" door (SN2). Closers to have self-drilling screws for steel doors and frames (DPK89). Closers to have self-tapping screws for aluminum doors and frames (TPK89). Closers to have TORX security for all exposed fasteners (TX89).

REDUCED OPENING FORCE INSTALLATIONS CAUTION:

Manual door closers, including closers certified to conform to BHMA/ANSI Standard 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 information on ED800 Low Energy Operator to meet reduced opening force requirements without affecting closing power.



Warranty: 25 years.

Finishes:

Standard Sprayed Finishes:

Aluminum: 689.

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

Gold: 696 Black: 693.

Optional Special Color Sprayed Finishes: Specify code number

or submit 3 color chip samples.

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).

Technical Drawing Symbols and Notes

Recommended application

N/A – Not applicable/application not recommended

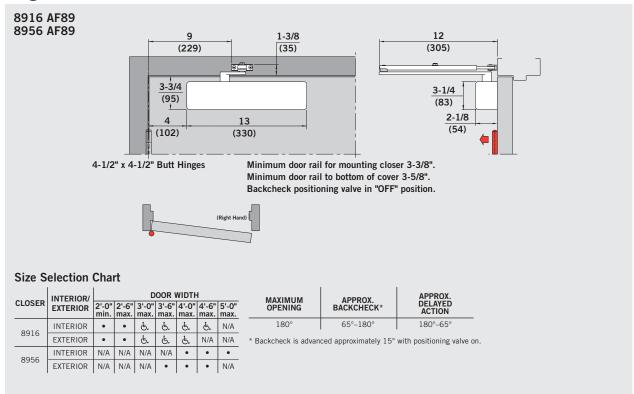
 Opening force 5 lb or less on interior doors; 8.5 lb or less on exterior doors where door without closer attached requires 1 lb opening force or less.

NOTE: The effective degree at which the backcheck occurs is determined by a **backcheck positioning** adjustment. Specifically designed for parallel arm applications, it advances the backcheck to an approximate range similar to regular and top jamb applications. The backcheck range(s) shown with each parallel arm technical drawing reflects an **on** status. Regular, top jamb, and track ranges reflect an **off** status. The 8900 Series closer is shipped with the backcheck positioning valve off. The (ABP) Advanced Backcheck Position option is available for SPA heavyduty parallel arm applications to further advance backcheck for extremely abusive environments.

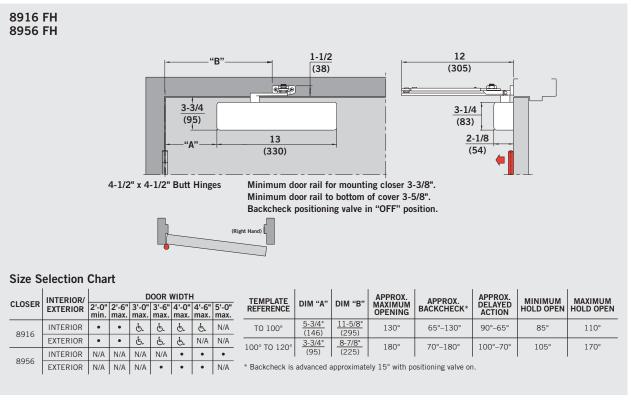
How to Order 89	000 Series		Example:
Size	Adjustable 1–6 o	8916/8956	
Application	No Designation	- Regular mount	8916/8956 AF89
	P	- Regular, top jamb and parallel mount	8916/8956 AF89P
	J	- Top jamb mount	8916/8956 AF89J
Body Option	DA	- Adjustable delayed action	8916/8956DA
	FC/FCSL	- Full plastic cover	8916/8956 FC/FCS
	FMC	- Full metal cover (specify hand for TJ, T, and FT applications)	8916/8956 FMC
Arm	AF89	- Flat form non-hold open (regular mount)	8916/8956 AF89
	AF89J	- Flat form non-hold open (top jamb mount)	8916/8956 AF89J
	AF89P	- Flat form non-hold open (parallel arm mount)	8916/8956 AF89P
	FH	- Friction hold open (regular mount)	8916/8956 FH
	FHJ	- Friction hold open (top jamb 4" to 8" reveal)	8916/8956 FHJ
	FHP	- Friction hold open (parallel arm)	8916/8956 FHP
	PH	- Plunger hold open (regular or [top jamb 0" to 1-1/2" reveal])	8916/8956 PH
	PHP	- Plunger hold open (parallel arm or [top jamb 1-1/2" to 3-1/2" reveal])	8916/8956 PHP
	IS	- Dead stop arm (regular mount)	8916/8956 IS
	ISJ	- Dead stop arm (top jamb 4" to 6" reveal)	8916/8956 ISJ
	SPA	- Super parallel arm	8916/8956 SPA
	SPAT	- Super parallel arm, thumb turn hold open	8916/8956 SPAT
	SPAK	- Super parallel arm, hex key turn hold open	8916/8956 SPAK
	DS	- Door saver parallel arm	8916/8956 DS
	DST	- Door saver parallel arm, thumb turn hold open	8916/8956 DST
	DSK	- Door saver parallel arm, hex key turn hold open	8916/8956 DSK
	Т	- Slide track arm T, JT, and FT applications	8916/8956 T
	TH	- Slide track arm T, JT, and FT applications with hold open	8916/8956 TH
	PT89	- Stop mounted slide track arm	8916/8956 PT89
	PT89H	- Stop mounted slide track arm with hold open	8916/8956 PT89H
	TDE	- Jamb mounted slide track arm, double egress (specify hand)	8916/8956 TDE L
	TDEH	- Jamb mounted slide track arm, double egress with hold open (specify hand)	8916/8956 TDEH
Accessories		- Specify the number of the accessory.	8916/8956 DP89
Fastener Packs	SN1	- Sex nuts (see information on page 27)	8916/8956 SN1
	DPK89	- Self-drilling screw pack for steel doors and frames	8916/8956 DPK89
	TPK89	- Self-tapping screw pack for aluminum doors and frames	8916/8956 TPK89
	TX89	- Tamper-resistant TORX screws (N/A track mounts)	8916/8956 TX89
Finish	See DORMA finis	sh information in this brochure. Example: 689 = Aluminum	8916/8956 689



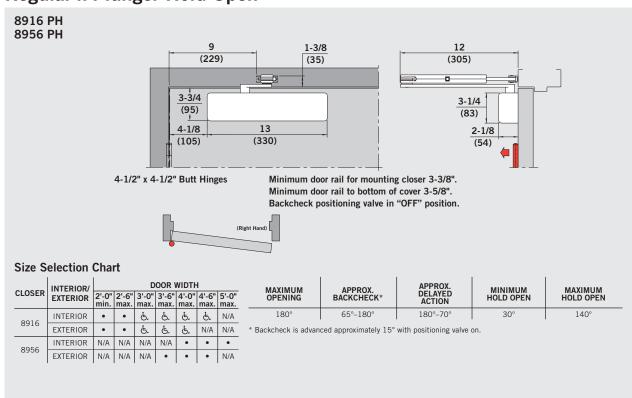
Regular x Flat Form Arm



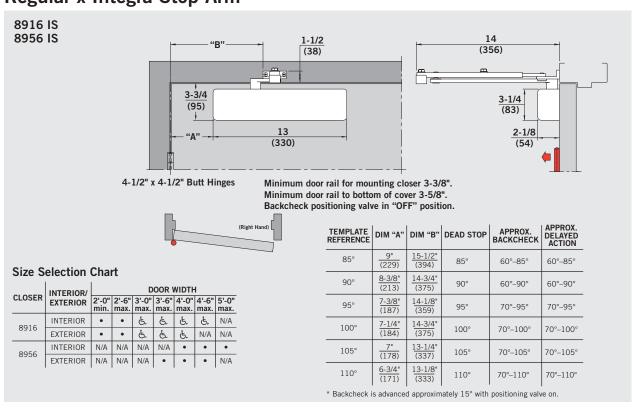
Regular x Friction Hold Open



Regular x Plunger Hold Open

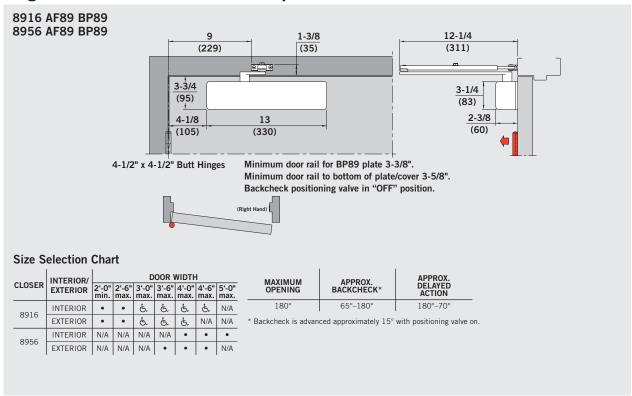


Regular x Integra Stop Arm

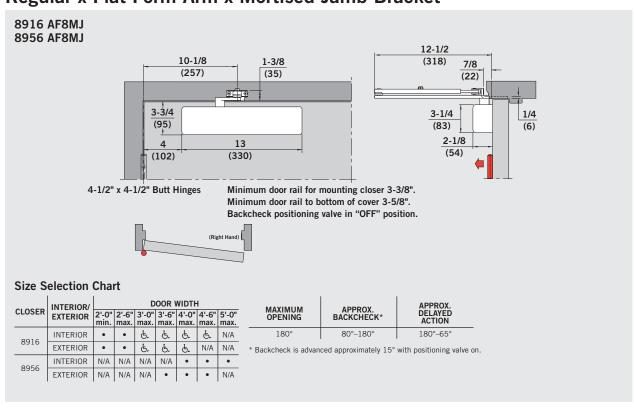




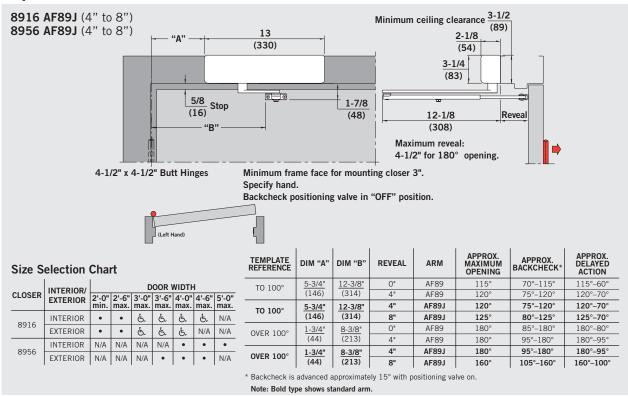
Regular x Flat Form Arm x Backplate



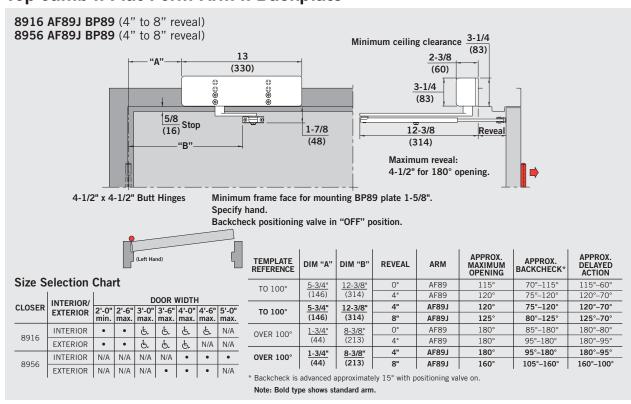
Regular x Flat Form Arm x Mortised Jamb Bracket



Top Jamb x Flat Form Arm 8916 AF89J (4" to 8")

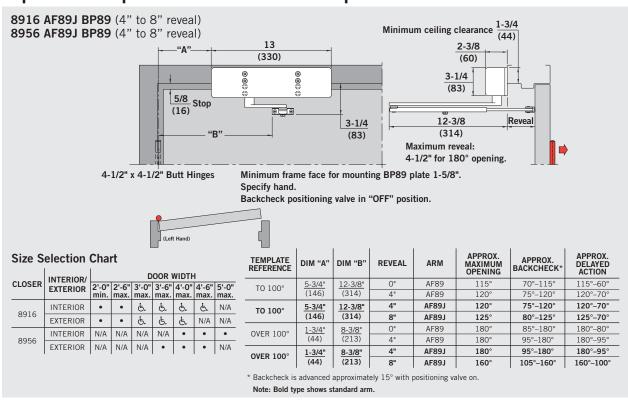


Top Jamb x Flat Form Arm x Backplate

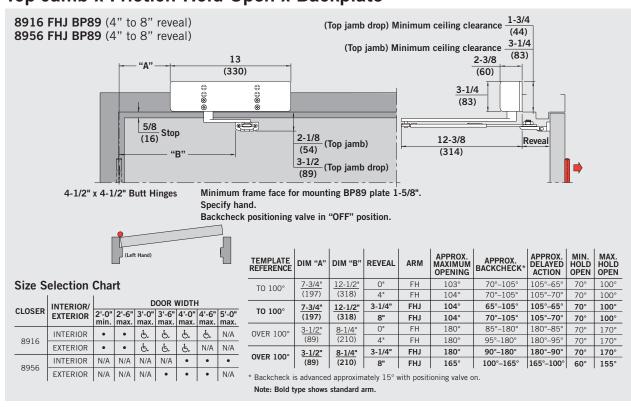




Top Jamb Drop x Flat Form Arm x Backplate



Top Jamb x Friction Hold Open x Backplate



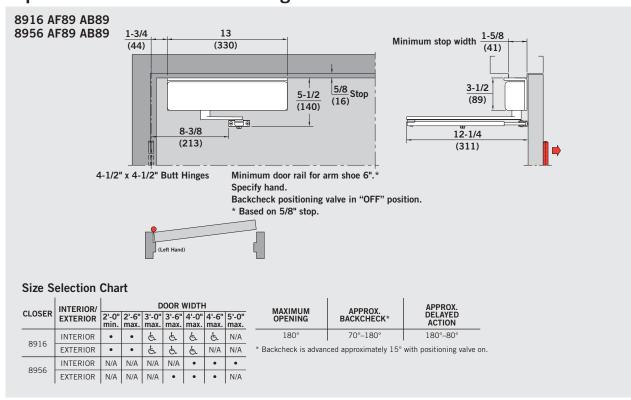
8916 ISJ BP89 Minimum ceiling clearance $\frac{3-1/4}{\sqrt{3}}$ 8956 ISJ BP89 13 2-3/8 (330) (60) 3-1/4 (83) 5/8 Stop 2 (51) (16)14-1/8 (359) Reveal 4-1/2" x 4-1/2" Butt Hinges Minimum frame face for mounting BP89 plate 1-5/8". Specify hand. Backcheck positioning valve in "OFF" position. APPROX. DELAYED ACTION APPROX. BACKCHECK DIM "A" DIM "B" REVEAL ARM DEAD STOP 60°-85° 85°-60° 859 14-3/8 0"-4" IS 85 (200) (365) 4"-6" ISJ 85 60°-85 85°-60° 7-1/4" (184) 13-3/4° (349) 0"-4" IS 900 60°-90° 90°-60° **Size Selection Chart** 4"-6" ISJ 90° 60°-90° 90°-60° DOOR WIDTH 6-3/4" (171) 65°-95 13-1/4 (337) IS INTERIOR 95° CLOSER 2'-0" 2'-6" 3'-0" 3'-6" 4'-0" 4'-6" 5'-0" 4"-6" ISJ 95° 65°-95° 95°-65° **EXTERIOR** min. max. max. max. max. max. max. 0"-4" IS 1009 65°-100° 100°-65° INTERIOR E E E E 4"-6" ISJ 100° 70°-100° 100°-70° 8916 EXTERIOR N/A Ė F E N/A 105 70°-105 105°-70° 0"-4" 105° INTERIOR N/A 4"-6" 70°-105° 105°-70° N/A N/A 105 N/A 8956 5-3/4" (146) 0"-4" 110°-70° IS 110° 70°-110° EXTERIOR N/A N/A N/A 110° 4"-6" ISJ 110° 70°-110° 110°-70°

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

Note: Bold type shows standard arm.

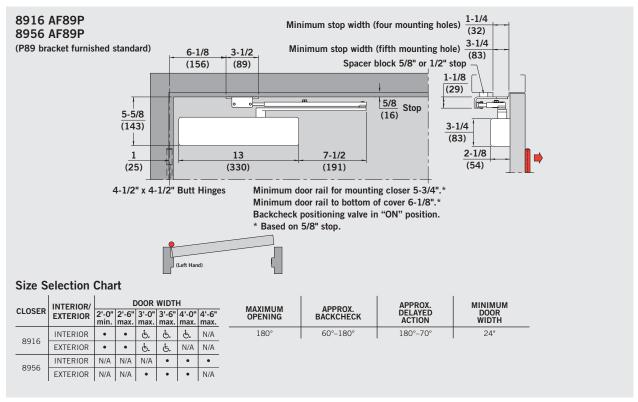
Top Jamb x Integra Stop Arm x Backplate

Top Jamb x Flat Form Arm x Angle Bracket

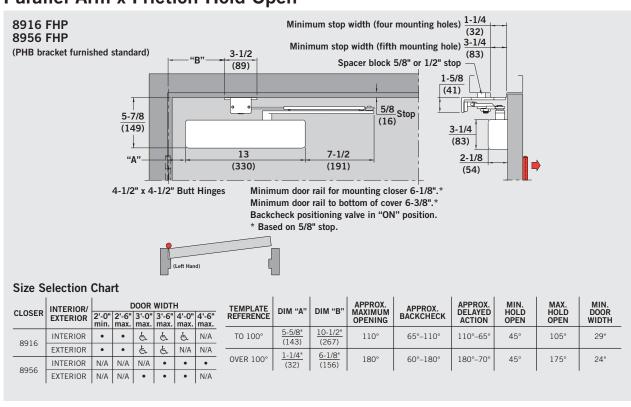




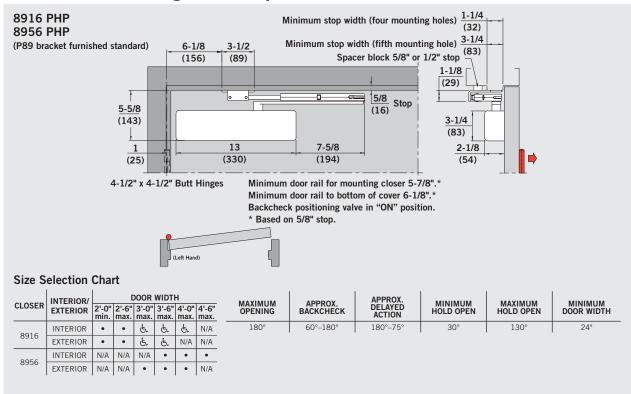
Parallel Arm x Flat Form Arm



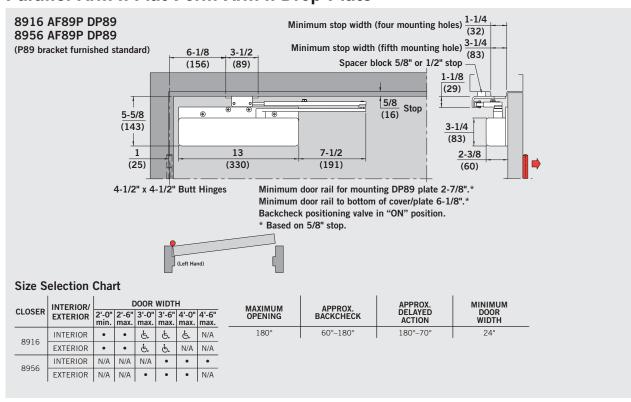
Parallel Arm x Friction Hold Open



Parallel Arm x Plunger Hold Open 8916 PHP

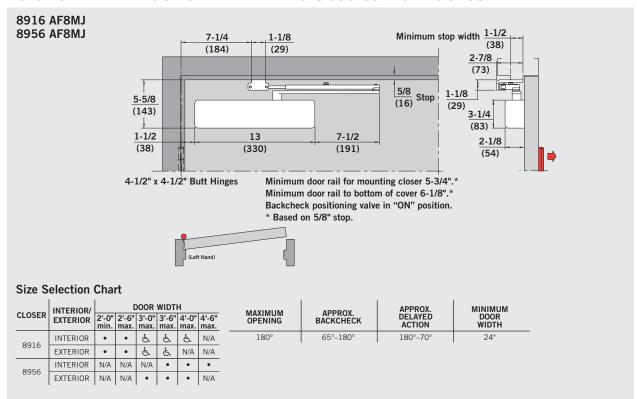


Parallel Arm x Flat Form Arm x Drop Plate

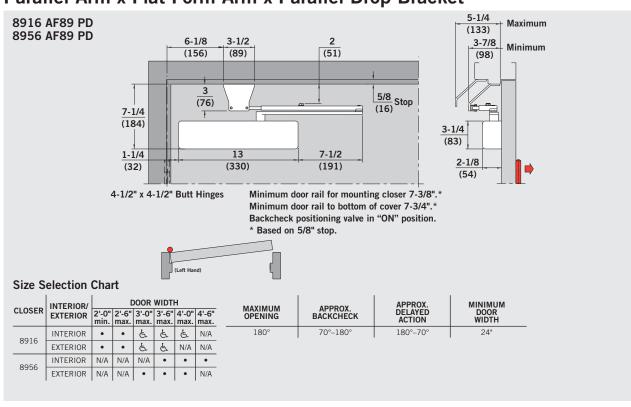




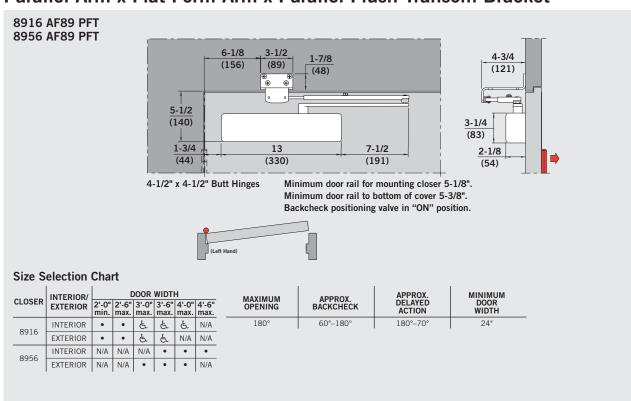
Parallel Arm x Flat Form Arm x Mortised Jamb Bracket



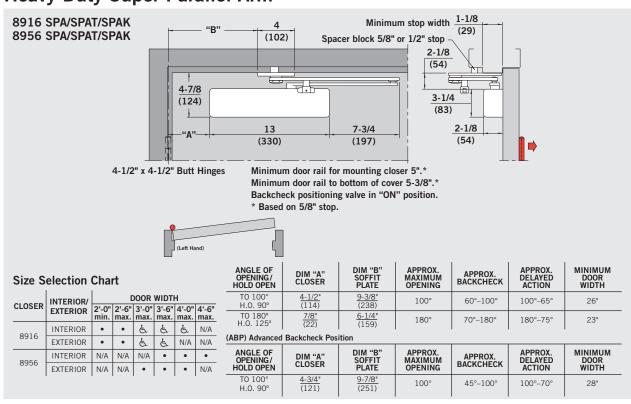
Parallel Arm x Flat Form Arm x Parallel Drop Bracket



Parallel Arm x Flat Form Arm x Parallel Flush Transom Bracket

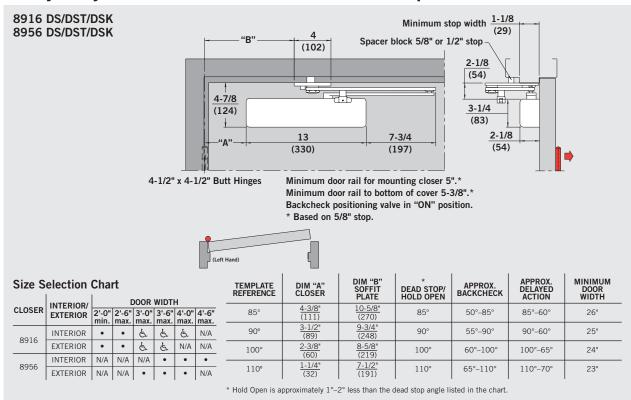


Heavy-Duty Super Parallel Arm

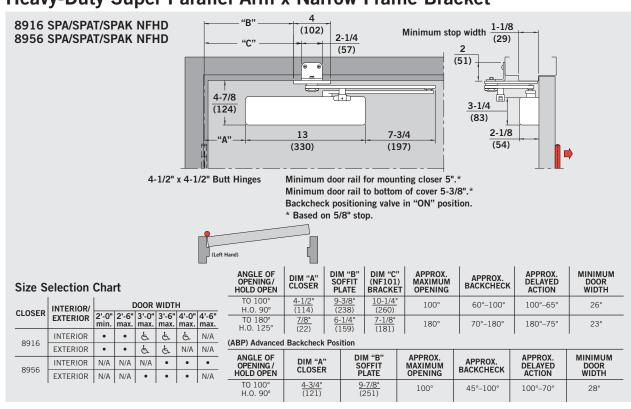




Heavy-Duty Parallel Arm Door Saver x Dead Stop



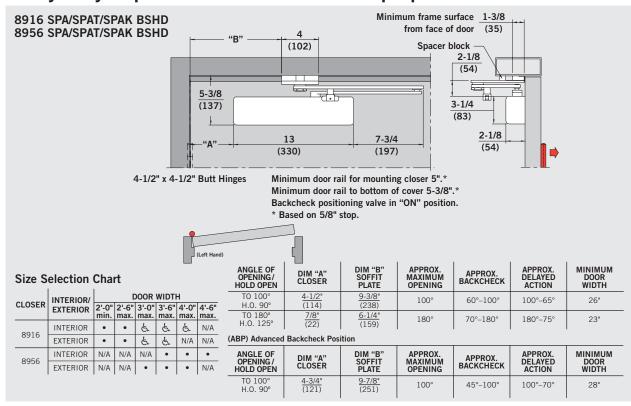
Heavy-Duty Super Parallel Arm x Narrow Frame Bracket



Heavy-Duty Parallel Arm Door Saver x Dead Stop x Narrow Frame Bracket 8916 DS/DST/DSK NFHD "B" Minimum stop width $\frac{1-1/8}{}$ 8956 DS/DST/DSK NFHD (102)2-1/4 (57) (51) 4-7/8 回 3-1/4 (124)(83) 13 7-3/4 2-1/8 (330)(197)(54) 4-1/2" x 4-1/2" Butt Hinges Minimum door rail for mounting closer 5".* Minimum door rail to bottom of cover 5-3/8".* Backcheck positioning valve in "ON" position. * Based on 5/8" stop. Size Selection Chart APPROX. DELAYED ACTION DIM "B" SOFFIT PLATE DIM "C" (NF101) BRACKET MINIMIIM TEMPLATE REFERENCE DIM "A" CLOSER APPROX. BACKCHECK DOOR WIDTH INTERIOR CLOSER 2'-6" 3'-0" 3'-6" 4'-0" 4'-6" max. max. max. EXTERIOR 4-3/8 10-5/8" (270) 11-1/2 85°-60° 85 INTERIOR E E Ġ N/A 9-3/4" (248) 8916 3-1/2 (89) 10-5/8 90° 90° 55°-90° 90°-60° 25' EXTERIOR E N/A N/A E (270)2-3/8 8-5/8" 9-1/2" INTERIOR N/A N/A 60°-100° 100°-65° N/A 100° EXTERIOR N/A N/A • N/A 1-1/4 7-1/2" (191) 8-3/8" (213) 110° 110° 65°-110° 110°-70° 23"

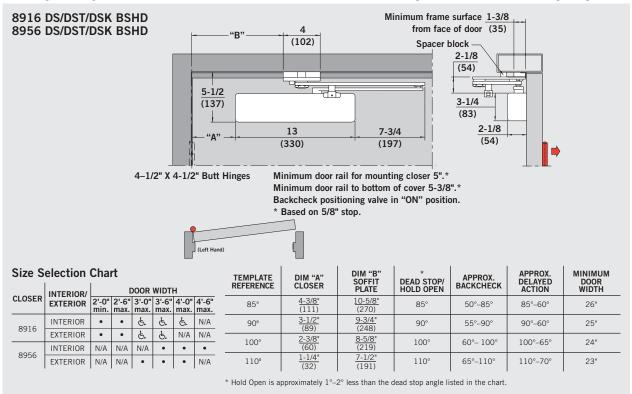
*Hold open is approximately 1°-2° less than the dead stop angle listed in the chart.

Heavy-Duty Super Parallel Arm x Blade Stop Spacer

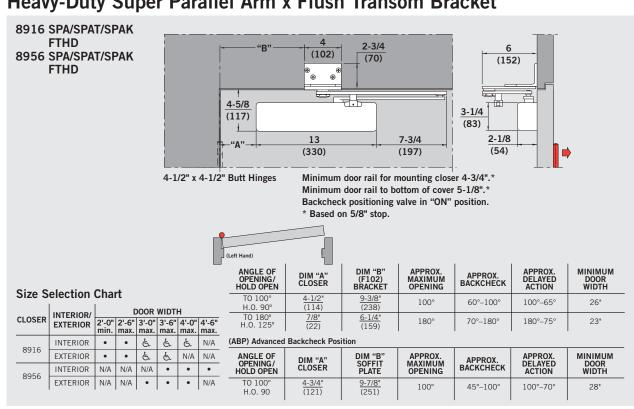




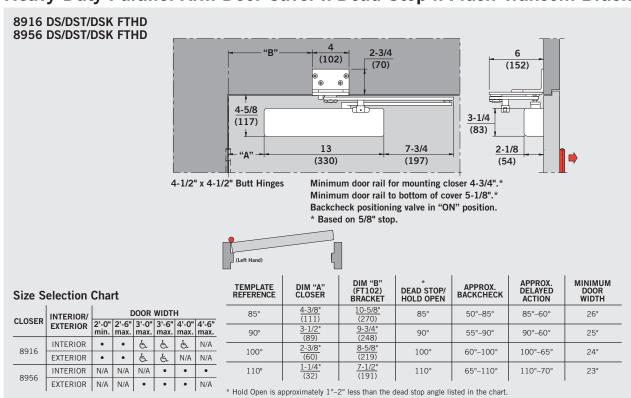
Heavy-Duty Parallel Arm Door Saver x Dead Stop and Blade Stop Spacer



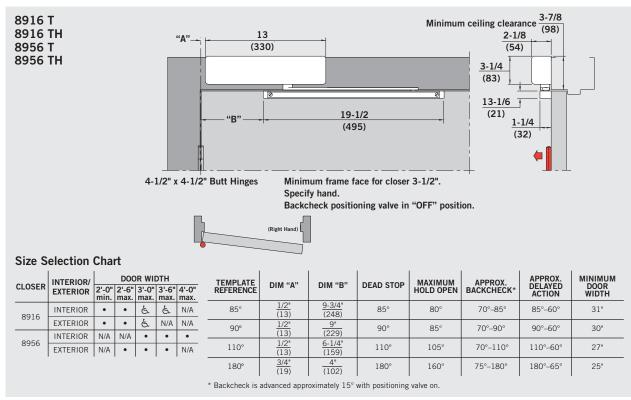
Heavy-Duty Super Parallel Arm x Flush Transom Bracket



Heavy-Duty Parallel Arm Door Saver x Dead Stop x Flush Transom Bracket

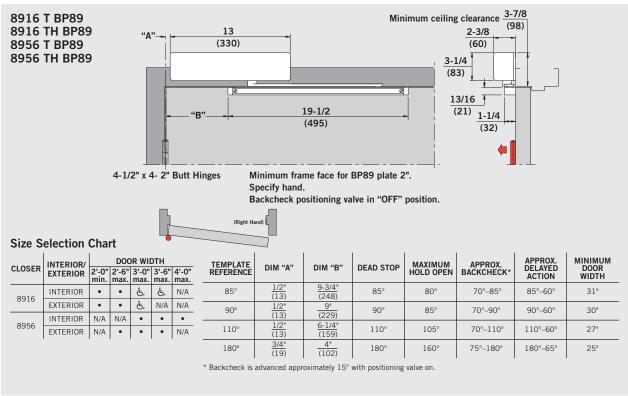


Track - Pull Side Door Mounted

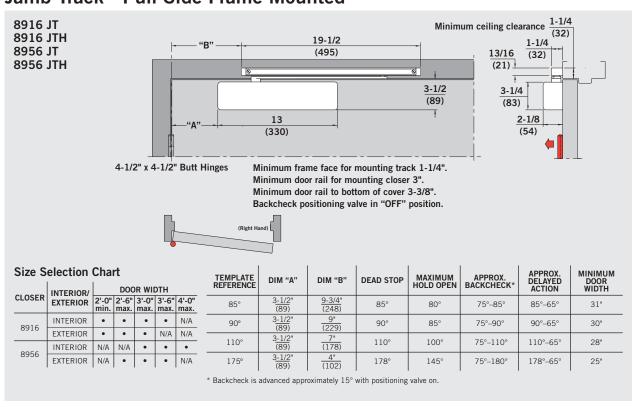




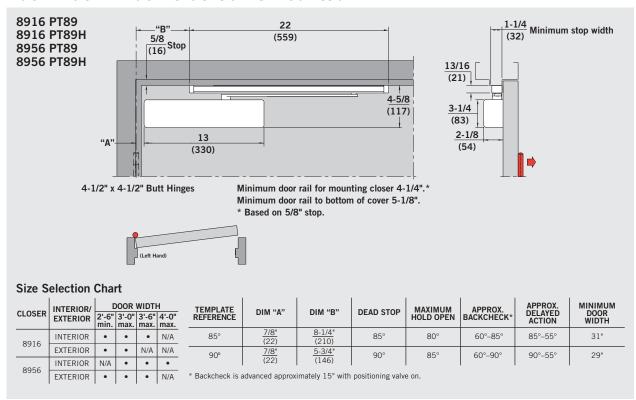




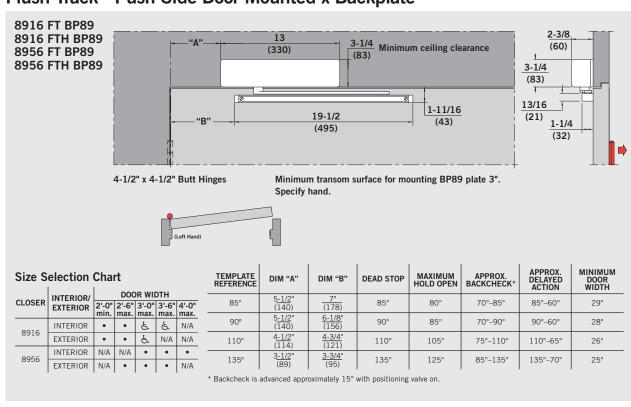
Jamb Track - Pull Side Frame Mounted



Push Track - Push Side Soffit Mounted

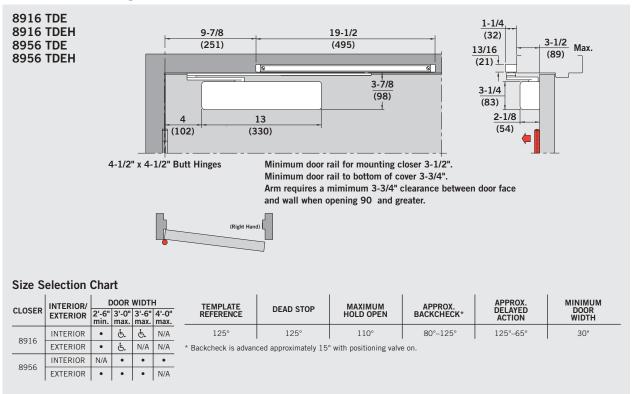


Flush Track - Push Side Door Mounted x Backplate

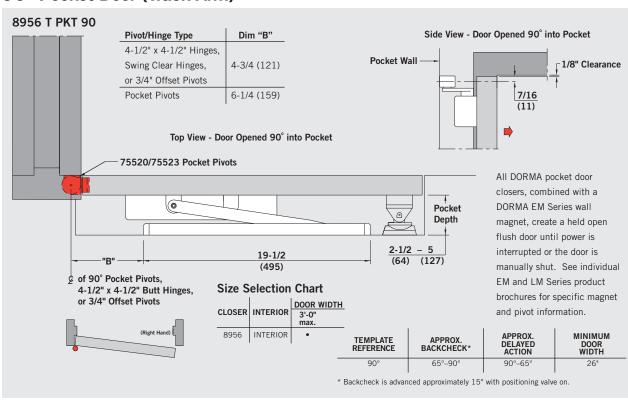




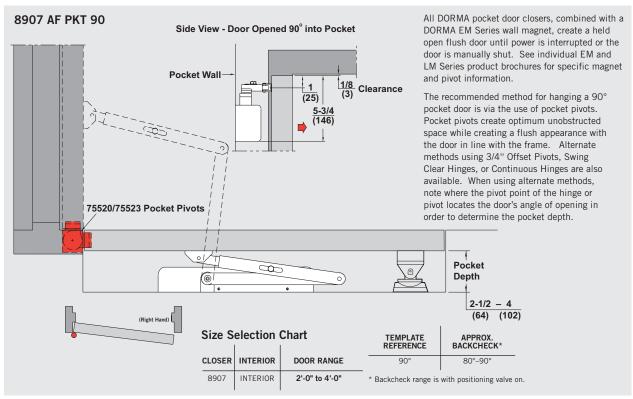
Track Double Egress - Pull Side Frame Mounted



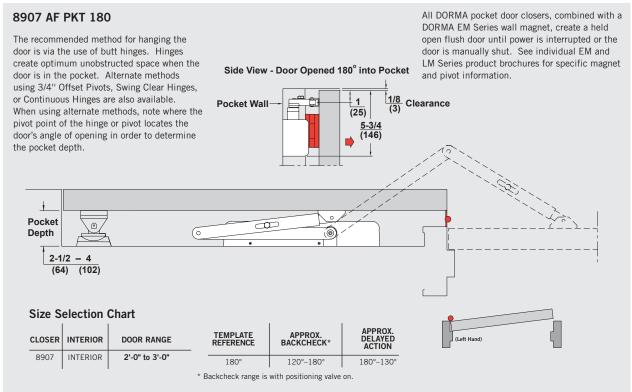
90° Pocket Door (Track Arm)



90° Pocket Door (Double-Lever Arm)

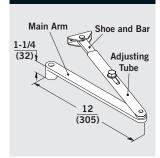


180° Pocket Door (Double-Lever Arm)





Flat Form Arm



Standard arm furnished with 8900 Series closers. Arm is non-handed.

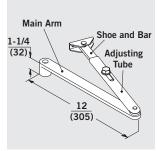
AF89 — Regular flat form arm, complete (0"-4" [0 mm-102 mm] reveal).

AF89J — Top jamp flat form arm complete (4"–8" [102 mm to 203 mm] reveal).

AF89P — Parallel flat form arm complete (Tri-Pack) (0"–4" [0 mm–102 mm] reveal). P89 included.

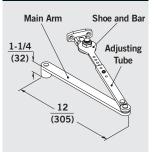
AMF89 — Regular flat form main arm and adjusting tube.

Flat Form Arm for MJ



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

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 — Friction hold open arm complete (4"–8" [102 mm–203 mm] reveal).

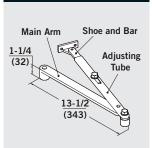
FHP — Friction hold open arm complete (Tri-Pack) (0"–4" [0 mm–102mm] reveal). PHB included.

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 (3-1/4"-8" [83 mm-203 mm] reveal).

FHSB — Friction hold open shoe and bar.

Integra Stop Arm



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

IS — Dead stop arm complete (0"-4" [0 mm-102 mm] reveal). Regular or top jamb.

ISJ — Tob jamp dead stop arm complete (4"-6" [102 mm-152 mm] reveal).

ISM8 — Main arm and adjusting tube.

ISSB04 — Shoe and bar (0"-4" [0 mm-102 mm]).

ISSB46 — Shoe and bar (4"-6" [102 mm-152 mm]).

BUMPERIS — Integra stop bumper only.



Provides a hold open function at a selected point within a range from approximately 30° to 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"-1-1/4"

[0 mm-32 mm] reveal).

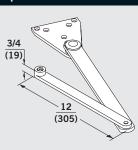
PHP — Plunger hold open arm complete parallel arm or top jamb mount (1-1/4"–3-1/4" [32 mm–83 mm] reveal).

PHM — Plunger hold open main arm and adjusting tube. **PHSB** — Plunger hold open shoe and bar regular and top jamb mount (0"-1-1/4" [0

mm-32 mm] reveal).

PHSBP — Plunger hold open shoe and bar parallel arm or top jamb mount (1-1/4"–3-1/4" [32 mm–83 mm] reveal).





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 — Non-hold open.
SPAT — Thumb turn hold

SPAK — Hex key turn hold open.

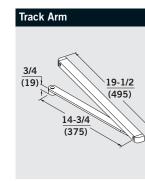
Stop | 3/4 | (19) | 12 | (305) |

Heavy-duty parallel arm with integral dead stop 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 — Dead stop only.DST — Dead stop and thumb turn hold open.

DSK — Dead stop and hex key turn hold open.

BUMPERDS - Door saver bumper only.



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. Also available with hold open option to provide selective single point hold open. Range of hold open and maximum opening varies with mounting application. T version illustrated. T — Track arm complete. Can

be used in T, JT and FT track applications.

TH — Track hold open arm complete. Can be used in THO, JTHO and FTHO track applications.

PT89 — Push-side track arm complete. Used with PT track applications (closer on door, track or soffit).

PT89H — Push-side track hold open arm complete.
Used with PT track applications (closer on door, track on soffit).



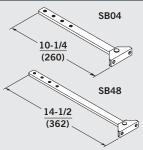
TDE Track Arm 19-1/2 (495) 20 (508)

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.

Regular Arm Shoe and Bar

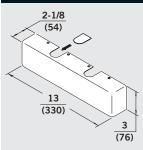


SB04 — 0"–4" (0 mm–102 mm) reveal - Shoe and bar only.

SB48 — 4"-8" (102 mm-203 mm) reveal - Shoe and bar only.

SB04 and SB48 must be used in conjunction with AMF89. Non-handed.

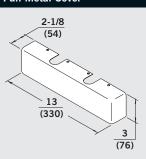
Full Plastic Cover



FC — Full plastic cover with interchangeable tab.

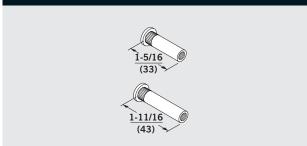
FCSL — Full plastic slotted cover with interchangeable tab. Mounting holes slotted for low ceiling conditions.

Full Metal Cover



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

Sex Nuts



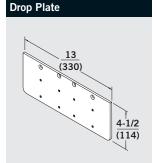
SN1 — Sex nuts for 1-3/4" (44 mm) door.

SN2 — Sex nuts 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.

BP89 — For mounting top jamb when frame face is less than 2-7/8" (73 mm). Two sets of mounting holes accommodate 1-3/4" (44 mm) or 3-1/4" (83 mm) minimum ceiling clearance.* Top set of holes create top jamb drop application to clear a surface applied stop/holder.

Can also be used for regular mount closer to clear mortised stop/holder.

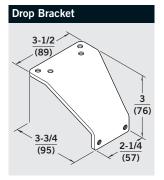


DP89 — For parallel arm installation of 8900 Series closers when top door rail is less than 5-3/4" (146 mm) for non-hold open and plunger hold open.

When top door rail is less than 6" (152 mm) for friction applications (assuming 5/8" (16 mm) stop dimension).

2-1/2 (64) 3-1/2 (89)

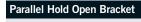
AB89 — For installation of 8900 Series closers where parallel arm and top jamb applications are not practical due to low overhead ceiling clearance, narrow frame face, or unusual trim conditions. This bracket can also be used to provide clearance for a surface-applied stop/holder.

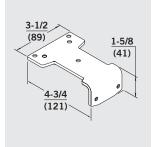


PD — For 8900 Series closer non-hold open parallel arm applications to clear a surface-applied stop/holder.

3-1/2 (89) 0 1-1/8 (29)

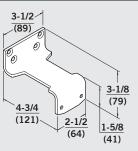
P89 — Furnished standard with 8900 P Series closer non-hold open and plunger hold open parallel arm applications. Spacer block furnished standard for use with narrow stop applications.



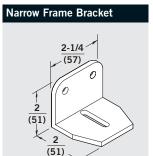


PHB — Furnished standard with 8900 FHP Series closer friction hold open parallel arm applications. Spacer block furnished standard for use with narrow stop applications.





PFT — For all 8900 Series closer hold open and non-hold open parallel arm installations where flush transom conditions prohibit use of P89 or PHB bracket.

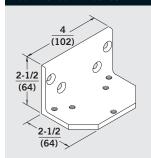


NFHD — For use with all 8900 Series DS and SPA applications where total frame depth is less than 4-1/2" (114 mm), prohibiting use of standard spacer block. NFHD bracket is used in lieu of block supplied with arm.

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

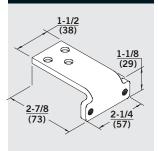


Flush Transom Bracket



FTHD — For use with all 8900 Series DS and SPA applications where flush transom conditions prohibit normal installation of soffit bracket.

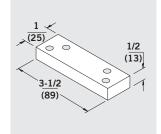
Mortised Jamb Bracket



MJ — For 8900 Series closers with regular mount non-hold open assemblies where frame conditions will not permit use of the standard foot, e.g. molded, bull nose, or ornate trim. Permits use of parallel arm application between twin communicating doors where limited space prohibits use of P89 bracket.

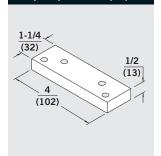
Flat form arm applications must use MJ in combination with AF8MJ Arm.

Blade Stop Spacer



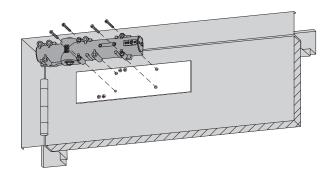
BS — For use with all 8900 Series P89, PD, and PHB applications installed on cased frames with applied blade stops. This block is used in conjunction with the spacer furnished with the arm to provide adequate clearance for the blade stop.

Heavy-Duty Blade Stop Spacer



BSHD — For use with all 8900 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.

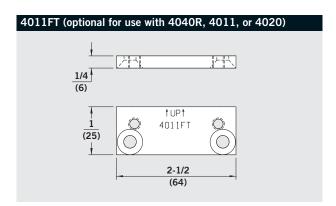




- 4040R Conversion plate utilizes LCN 4040 Reg. 120° holes for attachment to the door. The frame face will require drilling and tapping two holes for the arm shoe assembly. The DORMA 8900 Series closer will open a full 180° at this location.
- 4040P Conversion plate utilizes LCN 4040 PA 180° holes for attachment to the door. The frame will require drilling and tapping four holes for the DORMA 960R soffit bracket. The DORMA 8900 Series closer will open a full 180° at this location.
- 4040C Conversion plate utilizes LCN 4040 Cush 90° holes for attachment to the door. Requires drilling and tapping five holes in the frame for the DORMA DS soffit bracket.
- 4040E Conversion plate utilizes LCN 4040 EDA 180° holes for attachment to the door. Requires drilling and tapping five holes in the frame for the SPA soffit bracket.
- 4011 Conversion plate utilizes LCN 4011 Reg. 90° or LCN 4011 Reg. 140° holes for attachment to the door. The frame face will require drilling and tapping two holes for the arm shoe assembly.
- 4111 Conversion plate utilizes LCN 4111 PA 90° or LCN 4111 PA 180° holes for attachment to the door. Requires drilling and tapping five holes in the frame for the DORMA SPA soffit bracket.

4020 - Conversion plate utilizes LCN 4020 TJ 100° or LCN 4020 TJ 180° holes for attachment to the frame face. The door will require drilling and tapping two holes for the arm shoe assembly.

- 7500R Conversion plate utilizes Norton 7500 Reg. 90° or Norton 7500 Reg. 180° holes for attachment to the door. The arm shoe attaches using the existing Norton arm shoe preparation.
- P7500 Conversion plate utilizes Norton P7500 PA 90° or Norton P7500 PA 180° holes for attaching the closer body to the door. The soffit bracket attaches using the existing Norton soffit bracket preparation.
- 8300/8500 Conversion plate utilizes Norton 8300 and 8500 regular and parallel arm holes for attachment to the door. Regular arm shoe and parallel arm soffit bracket attachments use the existing Norton preparation.
- 8980R/PA Conversion plate utilizes DORMA TS83
 regular and parallel arm holes for attachment to
 the door. Regular arm shoe and parallel arm
 soffit bracket attachments use the existing
 TS83 preparation.
- 4011FT Optional arm shoe conversion plate used with 4040R, 4011, or 4020 for applications in which redrilling is not desirable.



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