



Surface Applied Door Closers

# 8900 SERIES HEAVY-DUTY SURFACE CLOSERS



Versatile, durable, and reliable, featuring modern styling for institutional or high-traffic commercial applications. DORMA'S 8900 Series, Grade 1 hydraulic surface closers are housed in corrosion-resistant aluminum with a hardened pinion/piston providing toughness and high-strength. The arm hub is made from forged steel. Standard on the 8900 Series closers are backcheck positioning with two adjustment valves, adjustable spring sizes from 1–6. Independently certified to 10 million, the 8900 Series closers are ideal for a variety of heavyduty, as well as barrier-free, applications.

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DORMA USA quality and environmental management systems in Reamstown, PA and Steeleville, IL are certified to ISO 9001:2008 and ISO 14001:2004.



### **Technical Details**

- Available as 8916 with fully adjustable spring sizes 1–6. Size 1 (5 lb opening force) meets interior barrier-free AD requirements.
- 8916 may be used on doors up to 48" wide interior (42" wide exterior) and up to 180 lb.
- 8956 available with adjustable spring sizes of 5–6 +50% for use on exceptionally wide, tall, or heavy doors.
- Non-handed for regular, top jamb, and parallel arm applications.
- Backcheck (BC) valve (standard) provides adjustableintensity hydraulic cushioning, preventing uncontrolled door opening to protect door and frame during abusive or abrupt opening.
- POS backcheck positioning valve (standard) maintains an effective backcheck range on parallel arm applications.
   Valve is accessible with the closer installed.
- Full adjustment using BC, POS, Sweep and Latch valves standard.
- Optional delayed action (DA) adjustable with separate independent valve to allow for unobstructed passage through opening.
- Full plastic cover standard. Full metal or full plastic slotted covers optional.
- All tamper-resistant (hex key) valve adjustments (including POS) accessible with closer installed.
- Standard components required for three most popular mounting configurations (Reg., TJ, PA).
- Standard fasteners include separate wood and metal screws and SN1 sex nuts for 1-3/4" thick doors.
- Full-sized templates enable accurate installation.
- A variety of specialty arm options, interchangeable across most DORMA surface closer models.

- Full complement of optional plates and brackets available for special applications.
- Screw options include selfdrilling and tapping screws (DPK89) for steel door and frame applications or selftapping screws (TPK89) for aluminum door and frame applications.
- Stainless steel (STA Series) model available (see STA brochure for details).
- Available with holder/release with (EMR Series) or without (EMF Series) photoelectric detector to control spread of smoke and fire (see EMR/EMF brochure for details).

#### Certifications

- ANSI/BHMA A156.4 Grade 1 certified.
- UL and CUL listed.Meets UL10C for
- positive pressure.
   Meets ANSI/BHMA A117.1 and ADA for barrier-free accessibility.
- CSFM approved.

#### Specification

The heavy-duty 8900 Series non-handed surface applied door closer with adjustable spring power and backcheck positioning adjustment. 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 1–6 for barrier-free requirements. All closers to have field adjustable spring power from size 1-6 and meet barrier-free requirements. The 8956 will be adjustable size 5 to 6 +50% additional closing force over the size 6. All 8900 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.

#### **Optional Specifications:**

The 8600 Series closer will have delayed action (DA). Delayed action range will be effective from maximum opening to approximately 65°. 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 selfdrilling 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 (TX89).

### 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/Architectural 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).
- Stainless: 630 (Satin).

#### Warranty

For details, refer to **DORMA Limited Warranty** on our website at go.dorma.com/terms.

# 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 Low Energy Operators to meet reduced opening force requirements without affecting closing power.

Features	8916	8956
Spring size (8916 shipped as size 4)	1–6	5–6 + 50%
Non-handed	•	•
Parallel arm bracket	•	•
Full line of specialty function arms and plates	•	•
Backcheck positioning adjustment	•	•
Controlled closing with two adjustment valves	180°–15° 15°–0°	180°–15° 15°–0°
Backcheck	•	•
Hydraulic delayed action	0	0
Hold open	0	0
SN1 sex nuts for 1-3/4" thick doors included	•	•
Self-drilling screws	0	0
Self-tapping screws	0	0
Tamper-resistant TORX screws	0	0
Full cover (plastic)	•	•
Full cover (metal)	0	0
• standard 0 optional		

standard
 o optional

# HOW TO ORDER 8900 SERIES

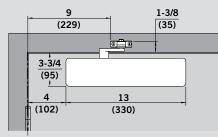
Spring Size       Body Cover       Accessory       Accessory       Hate       Accessory         Series Size 7       0       10       Test Cover       10       Test Cover       100       100       Test Cover<					Other A	ccesso	ries
Ajustable 1-6 Find Star 7 Ajustable 1-6 Find Star 7 Ajustable 1-6 Find Star 7 Ajustable 1-6 Find Star 7 Ajustable 1-6 Find Market Market Find Market Coverning Find Market C	Spring Size				AB89	– Angle Br	acket
Adjustable 1- 0       Full Hastac       Fig       Plates       Fitter       - Fitter <t< td=""><td>Fixed size 2 for TEL — <b>02</b></td><td></td><td>Body Cover</td><td>Accessory</td><td>NFHD -</td><td>– Narrow F</td><td>rame Bracket, Heavy Duty</td></t<>	Fixed size 2 for TEL — <b>02</b>		Body Cover	Accessory	NFHD -	– Narrow F	rame Bracket, Heavy Duty
Name Step 7       Disp 7 MB       Disp 7 MB <td>Adjustable 1–6 — <b>16</b></td> <td></td> <td>Full Plastic — <b>FC</b></td> <td></td> <td>FTHD -</td> <td>– Flush Tra</td> <td>ansom Bracket, Heavy Duty</td>	Adjustable 1–6 — <b>16</b>		Full Plastic — <b>FC</b>		FTHD -	– Flush Tra	ansom Bracket, Heavy Duty
Adjustable 5-6 56 DA row relation for the form in the				Drop Plate - DPXX	BS -	– Blade St	op Spacer
Series       BOD       Plat Form Non-Hold Open, TL 4-9: Research       AF89P       PPT       — Parallel Flue       Trist Series       GoD       — Pointed Brance         Flat Form Non-Hold Open, TL 4-9: Research       AF89P       PPD       — Parallel Flue       SNP       — Sint String       GoD       — Pointed Brance         Friction Hold Open, Reg./TL 0-4-9: Research       FHJ       MJ       Moline Series       SNP       — Sint Brance       — Distance Brance </td <td></td> <td></td> <td></td> <td>Back Plate - BPXX</td> <td>BSHD -</td> <td>– Blade St</td> <td>op Heavy Duty</td>				Back Plate - BPXX	BSHD -	– Blade St	op Heavy Duty
Series       BOD       Plat Form Non-Hold Open, TL 4-9: Research       AF89P       PPT       — Parallel Flue       Trist Series       GoD       — Pointed Brance         Flat Form Non-Hold Open, TL 4-9: Research       AF89P       PPD       — Parallel Flue       SNP       — Sint String       GoD       — Pointed Brance         Friction Hold Open, Reg./TL 0-4-9: Research       FHJ       MJ       Moline Series       SNP       — Sint Brance       — Distance Brance </th <th>89 16</th> <th><b>VE80</b></th> <th>FC 9</th> <th></th> <th></th> <th>68</th> <th>a</th>	89 16	<b>VE80</b>	FC 9			68	a
Decision       The Res       Parallel Trans Non-Hold Open, Tel-Res       Statin Trans         Friction Hold Open, Tel-Res       FH       FH       FH       FH       Statin Trans       Statin Trans         Parallel Arm (T1) L1/2 <sup>-3</sup> L1/2 <sup>-</sup> Result       FH       FH       FH       FH       Statin Trans       Statin Trans         Parallel Arm (T1) L1/2 <sup>-3</sup> L1/2 <sup>-</sup> Result       FH       FH       FH       FH       Statin Trans       Statin Trans         Paralle Arm (T1) L1/2 <sup>-3</sup> L1/2 <sup>-</sup> Result       FH       FH       FH       FH       Statin Trans       Statin Trans         Purget Hold Calmon       FH       FH       FH       FH       Statin Trans       Statin Trans       Statin Trans         Purget Hold Calmon       FH       FH       FH       FH       Statin Trans       Statin Trans       Statin Trans         Purget Hold Calmon       FH					] -	<u>г г</u>	<b>5</b>
Plate from Num Hold Open, The Reg JJ 0-4* Reveal Field       AF89       More Service       Sixth Database Bronze         Priction Hold Open, Tur Pack       FH       More Service       Sixth Database Bronze         Priction Hold Open, Tur Pack       FH       More Service       Sixth Database Bronze         Priction Hold Open, Tur Pack       FH       More Service       Sixth Database Bronze         Parallel Arm (Tur 1-12*-5-1/2* Reveal PHH)       FH       Priction Hold Open, Tur Pack       Sixth Database Bronze         Purger Hold Open, Reg /TJ - 1/2*-Service       FH       Price Ketts       Sixth Database Bronze         Dor Saver Parallel Cachino Arm more Marm Hold Open       DST       Sixth Database Bronze       Oil Rubbe Bronze         Dor Saver Parallel Cachino Arm more Marm Hold Open       DST       DST       Sixth Tur Hold Open       Sixth Sixth Histore         Spring Dor Saver Parallel Cachino Arm Reg /TJ O-3-12/2 Reveal       Oil Rubbe Bronze       Sixth Histore       Sixth Histore       Sixth Histore         Cushion IS Arm Reg /TJ O-3-12/2 Reveal       Sixth Histore       Sixth Histore       Sixth Histore       Sixth Histore         Top Jamb 3-1/2*-6-1/2* Reveal       Sixth Histore       Sixth Histore       Sixth Histore       Sixth Histore         Top Jamb 3-1/2*-6-1/2* Reveal       Tit       Fith       Sixth Instace Reveal	Tri-Pack		Transom Bracket	Pack	ity	605	<ul> <li>Polished Brass</li> </ul>
Protoch Hold Open, TJ. 4–2R Revail       FHJ       Accessory       SNI       - Fide Hold Open, TJ. 4–2R Revail       FHJ         Protoch Hold Open, TJ. 4–2R Revail       FHJ       Accessory       SNI       SNI       - Still       G12       - Still       Outload Still	. ,	L	Drop Bracket	3NZ - 1-3/8"		606	— Satin Brass
Friction Hold Open, TL 4'-8' Reveal Protein Hold Open, Reg./TJ 0'-4' Reveal Door Saver Parallel Cashion Am Tomb Turn Hold Open Am Thrumb Turn Hold Open Cashion IS Arm Reg./TJ 0'-5'-12' Reveal Spring Stop IS Reg./TJ 0'-5'-12' Reveal Super Parallel Am Turnb Turn Hold Open Super Parallel Am Turnb Turn Hold Open Tack, Hold Open Publ Side Soft Mounted Turck, Hold Open Full Side Transom Mounted Turck Hold Open Publ Side Frame Face Mounted Turck Application, Stypotel Side Timo Pack Side	-			SN1 - Sex Nuts 1-3/4"	Plated	611	<ul> <li>Polished Bronze</li> </ul>
Friction Hold Open, Reg. 71 0°-47 Reveal Prunger Hold Open, Reg. 71 0°-47 Reveal Prunger Hold Open, Reg. 71 0° 11/2° Reveal Door Saver Parallel Cachino Am Door Saver Parallel Cachino Am Am Thumb Turn Hold Open, 0°-31/2° Reveal Cushino IS Am Reg. 71 0°-3-1/2° Reveal Spring Stop IS Reg. 71 10°-47 Cushino IS Am Top Jamb 31/2°-61/2° Reveal Super Parallel Am Hux Key Hold Open Pub Side Transon Mounted Pub Side Transon			Accessory	SNDPK - Std. and		612	— Satin Bronze
Paralel Arm (T1 ) 1:27: 31/27 (Revail Plunger Hold Open, Reg. /TJ 0 <sup>-1</sup> -1/27 (Revail Dor: Saver Parallel Cachino Arm Dor: Saver Parallel Cachino Arm Dor: Saver Parallel Cachino Arm Dar Stave Parallel Cachino Arm Thim bit for Hold Open Cushino IS Arm Reg. /TJ Cushino IS Arm Top Jamb 3-1/27 -6-1/27 (Revail Super Parallel Arm Thumb Turn Hold Open Tack, Pull Side Transen Mounted Tack, Pull Side Transen Mounted Tack, Pull Side Transen Mounted Tack, Pull Side Transen Mounted Tack Hold Open Pull Side Transen Mounted Tack Application, 97 Pocket Boor Pull Side Transe Mounted Tack Application, 97 Pocket Boor Pull Side Transe Mounted Tack Application, 97 Pocket Boor Pull Side Transen Mounted Tack Application, 97 Pocket Boor Pull Side Transe Mounted			-		-	613	
Pringer Hold Gen, Reg. 170 – 172; Reveal Door Saver Parallel Cushion Arm Door Saver Parallel Cushion Arm Door Saver Parallel Cushion Arm Arm Thumb Turn Hold Open Spring Door Saver Parallel Cushion Arm Thumb Turn Hold Open Spring Stop IS Reg. 711 O'-3-1/2? Reveal Cushion IS Arm Reg. 711 O'-3-1/2? Reveal Cushion IS Arm Top Jamb 3-1/2'-6-1/2? Reveal Super Parallel Arm Super Parallel Arm Full Side Frame Face Mounted FT Full Side Frame Face Mounted FT FULS Mark Applications of Pratures and options are not available for all JT, T, and FT applications frame Face Mounted FT FUES Model Copen, FPKT180 FT FTR190/F FT FTR190/F FT FTR190/F FT FTR190/F FT FTR190/F FT FTR190/F FT FTR190/F FT FTR190/F FT FTR190/F FT FTR190/F FT FTR190/F FT FTR190/F FT FTR190/F FT FTR190/F FT FTR190/F FT FTR190/F FT	Plunger Hold Open,				-		
Doc Save Parallel Cushina Doc Save Parallel Cushina Doc Save Parallel Cushina Arm Thurn Hold Open       Dist       Fastener Pack       Dist       Dist         Spring Door Save Parallel Cushina Arm Thurn Hold Open       Dist       Dist<							
Arm Thumb Turn Hold Open Spring Door Saver Parallel Dead Stop Cushion IS Arm Reg.(T) O'-3.1/2' Reveal Soring Stop IS Arm Red Open, Top Jamb 3-1/2'-6-1/2' Reveal Super Parallel Arm Tumb Turn Hold Open, Track Pull Side Farame Save Mounted Track Hold Open, Pull Side Door Mounted Track Hold Open, Pull Side Transom Mounted Track Application, 90° Pocket Hoor, Pocket Provis (R9307 only) Double Lever Flat Form Arm, 90° Pocket Door (8907 only) Double Lever Flat Form, 90° Pocket Door (8907 only) Double Lever Flat Form, 180° Pocket Poros, 180° Pock				TPK89 — Self-Tappi	ng	619	— Satin Nickel
Spring Door Saver Parallel Dead Stop       DSK Am Hex Key Turn Hold Open       Stin Strainbecx*         Spring Door Saver Parallel Dead Stop       SDS         Cushion IS Arm Reg/TJ       O'-3-1/2*         O'-3-1/2*       SIS         Spring Stop IS Reg/TJ       SIS         O'-3-1/2*       SIS         Cushion IS Arm       SIS         Top Jamb 3-1/2*       SIS         Spring Stop IS Reg/TJ       SIS         Cushion IS Arm       SIS         Top Jamb 3-1/2*       SIS         Spring Stop IS Ared Dopen,       Freg/TJ         Top Jamb 3-1/2*       SIS         Super Parallel Arm       SPAT         Super Parallel Arm       SPAT         Super Parallel Arm Hold Open,       Freg/TJ         Pull Side Frame Face Mounted       TT         Track, Pull Side Soffit Mounted       PT         Pull Side Frame Face Mounted       TT         Pull Side Frame Face Mounted		DST		Fastener Pack		625	<ul> <li>Polished Chrome</li> </ul>
Spring Door Saver Parallel Dead Stop       SDS         Cushion 1S Arm Reg./TJ       - Spring Door Saver Parallel Dead Stop Thumb Turn Hold Open       - Git Stip Intess*         Spring Stop IS Reg./TJ       - Spring Stop IS Reg./TJ       - Spring Stop IS Reg./TJ       - Spring Stop IS Reg./TJ         - String Stop IS Reg./TJ       - Sist       - Spring Stop IS Reg./TJ       - Stutury Bronze         - Cushion IS Arm       - Spring Stop IS Neg./TJ       - Spring Stop IS Reg./TJ       <		DSK				626	— Satin Chrome
Cushion IS Arm Reg./TJ 0'-3-1/2' Reveal       Spring Door Saver Parallel Dead Stop Thumb Turm Hold Open 0'-3-1/2' Reveal       assembly only)         Spring Stop IS Reg./TJ 0'-3-1/2' Reveal       Cushion IS Arm Hold Open, 0'-3-1/2' Reveal       Primed 689       - Statuary Bronze         Cushion IS Arm Top Jamb 3-1/2'-6-1/2' Reveal       SIS SiSJ       Spring Stop IS Top Jamb 3-1/2'-6-1/2' Reveal       600       - Statuary Bronze         Super Parallel Arm Super Parallel Arm Tack, Pull Side Door Mounted       SPAK T       SiSJ       - Cushion IS Arm Hold Open, Tack, Pull Side Door Mounted       Spring Stop IS SiSJ       - Sistist         Pull Side Transom Mounted       T       Spring Stop IS Top Jamb 3-1/2'-6-1/2' Reveal       - Dark Durandic Bronze         Super Parallel Arm Super Parallel Arm Pull Side Door Mounted       Spring Stop IS Tack, Pull Side Door Mounted       T       - Spring Stop IS SisJ       - Spring Stop IS SisJ       - Spring Stop IS SisJ       - Dark Durandic Bronze         Pull Side Transom Mounted       T       - Spring Tack, Pull Side Door Mounted       T       - Spring Tack, Pull Side Door Mounted       - Spring Tack, Pull Side Door Mounted       - The Pull Side Frame Face Mounted       - The Pull	Spring Door Saver Parallel Dead Stop —	SDS				620	
0*-3-1/2* Reveal       1S         Spring Stop 1S Reg,/TJ       0*-3-1/2* Reveal         Cushion 1S Arm Hold Open,       Statuary Bronze         Top Jamb 3-1/2*-6-1/2* Reveal       SISJ         Spring Stop 1S       SISJ         Top Jamb 3-1/2*-6-1/2* Reveal       SISJ         Super Parallel Arm       SPA         Super Parallel Arm       SPA         Super Parallel Arm       SPA         Super Parallel Arm       SPA         Track, Pull Side Door Mounted       T         Pull Side Door Mounted       T         Pull Side Frame Face Mounted       T         Pull Side Softi Mounted       PT         Pull Side Softi Mounted       PT         Pull Side Frame Face Mounted       T         Pull Side Softi Mounted       PT         Pull Side Frame Face Mounted       T         Pull Side Frame Face Mounted       FT         Pull Side Frame Face Mounted       T         Pull Side Frame Face Mounted       FT         Pull Side Frame Face Mounted       T         Pull Side Frame Face Mounted       FT         Pull Side Frame Face Mounted       T         Pull Side Frame Face Mounted       T         Pull Side Frame Face Mounted       T		SDST	- Spring Door Saver Parallel	Dead Stop Thumb Turn H	old Open /	630	
Spring Stop IS Reg./TJ O'-3-1/2" Reveal       ISH O'-3-1/2" Reveal       Sish Sish Sish Top Jamb 3-1/2"-6-1/2" Reveal       Sish Sish Sish Top Jamb 3-1/2"-6-1/2" Reveal       Architectural       Statuay Bronze Dull Bronze         Spring Stop IS Top Jamb 3-1/2"-6-1/2" Reveal       Sish Sish Sish Sish Top Jamb 3-1/2"-6-1/2" Reveal       Sish Sish Sish Sish Top Jamb 3-1/2"-6-1/2" Reveal       Sish Sish Sish Sish Sish Sish Sish Sish		IS				600	- Primed
O'-3-1/2* Reveal Custion IS Arm Top Jamb 3-1/2'-6-1/2* Reveal Custion IS Arm Top Jamb 3-1/2'-6-1/2* Reveal Spring Stop IS Arm Hold Open, Top Jamb 3-1/2'-6-1/2* Reveal Super Parallel Arm       Spring Stop IS SUP Parallel Arm       SPA Super Parallel Arm       SPA Super Parallel Arm Hold Open, Track, Pull Side Door Mounted       SPA SUP Parallel Arm Hold Open, Track, Pull Side Door Mounted       SPA SUP Parallel Arm Hold Open, Track Nould Open, Pull Side Frame Face Mounted       T       Spring Stop IS Arm Hold Open, Track Hold Open, Pull Side Frame Face Mounted       SPA Super Parallel Arm Hold Open, Track Hold Open, Pull Side Frame Face Mounted       T       Spring Stop IS Arm Hold Open, Track Hold Open, Pull Side Frame Face Mounted       T       Spring Stop IS Arm Hold Open, Pull Side Frame Face Mounted       Spring Stop IS Arm Hold Open, Pull Side Soffit Mounted       T       Spring Stop IS Arm Hold Open, Pull Side Soffit Mounted       T       Spring Stop IS Arm Hold Open, Pull Side Soffit Mounted       T       Spring Stop IS Arm Hold Open, Pull Side Frame Face Mounted       Spring Stop IS Arm Hold Open, Pull Side Frame Face Mounted       T       Spring Stop IS Arm Hold Open, Pull Side Frame Face Mounted       *Stainless base material with brushed Satin Finish.       *Stainless base material wi		ISH				689	— Aluminum
Custion IS Arm Top Jamb 3-1/2'-6-1/2' Reveal       SISH ISJ       - Reg./T.J O^-3-1/2' Reveal (Not Available on 8956 or 8907)       - Dull Bronze         Spring Stop IS Top Jamb 3-1/2'-6-1/2' Reveal       SISJ       SiSJ       - Spring Stop IS Arm Hold Open, Top Jamb 3-1/2'-6-1/2' Reveal       - Dark Duranodic Bronze         Super Parallel Arm Super Parallel Arm Thumb Turn Hold Open Track, Pull Side Soffit Mounted       SPAK       - Spring Stop IS Arm Hold Open, Top Jamb 3-1/2'-6-1/2' Reveal       - Secial sprayed finish (must specify)**         Push Track, Pull Side Soffit Mounted Pull Side Transom Mounted       T       - Flush Track, Push Side Transom Mounted       - Flush Track Hold Open, Pull Side Frame Face Mounted       - Flush Track Hold Open, Pull Side Frame Face Mounted       - Flush Track Hold Open, Pull Side Frame Face Mounted       - Flush Track Hold Open, Pull Side Frame Face Mounted       - Th Pull Side Frame Face Mounted       - Track Application, 90° Pocket Hoor (8956 only)       - Stainless base material with brushed Satin Finish.       **Tor optional DORMA custom color or designer color finishes, contact Customer Service.         Pull Side Frame Face Mounted       TH       - Jamb Track Hold Open, Pull Side Frame Face Mounted       - Track Application, 90° Pocket Fine Door, Includes 3 ae. 75523 Pocket Fivots (8956 only)       - Moultes       - Mill combinations of features and options are not available for all models.       - Nor-fire rated, 90 TPK (90° pocket) applications require (3 ae.) 75520 pocket pivots, ordered separately.         Pull Side Lever Flat Form Mrouches 3 ae. 75523 Pocket Pivots		SIS	Spring Stop IS Hold Open,	Archite	ectural	690	Statuary Bronze
Top Jamb 3-1/2"-6-1/2" RevealISJCushion IS Arm Hold Open, Top Jamb 3-1/2"-6-1/2" RevealISJSpring Stop IS Top Jamb 3-1/2"-6-1/2" RevealSISJ SISJ- Dark Duranodic BronzeSuper Parallel Arm Super Parallel Arm Hourd Open Track, Pull Side Door MountedSPAK T Track Pull Side Door Mounted- T T T Track Hold Open, Pull Side Frame Face Mounted- T T T T Pull Side Frame Face Mounted- T T T Pull Side Frame Face Mounted- T T T Pull Side Frame Face Mounted- Stainless base material with brushed Satin Finish.Pull Side Frame Face Mounted Pull Side Frame Face Mounted Pull Side Frame Face Mounted- T T T Pull Side Frame Face Mounted- T T T T Pull Side Frame Face Mounted- T T T T Track Application, 90° Pocket Door Includes 3 ea. 75520 Pocket Pivots (8956 only) Pocket Pivots (8956 only)- Track Application, 90° Pocket Fire Door, Includes 3 ea. 75520 Pocket Pivots Pocket Pivots (8956 only)- Track Application, 90° Pocket Pivots applications require (3 ea.) 75520 pocket pivots, ordered seperately.Non-fire rated, 90 TPK (90° pocket) applications require (3 ea.) 75520 pocket pivots, ordered seperately Track Application S require (3 ea.) 75520 pocket pivots, ordered seperately.Non-fire rated, 90 TPK (90° pocket) applications require (3 ea.)	Cuchion IS Arm	SISH		8907)			Dull Bronze
Spring Stop IS Top Jamb 3-1/2"-6-1/2" Reveal       Top Jamb 3-1/2"-6-1/2" Reveal       - Dark Duranodic Bronze         Super Parallel Arm Super Parallel Arm Thum Turn Hold Open Tack, Pull Side Door Mounted       SPAT SPAT       - Spring Stop IS Arm Hold Open, Top Jamb 3-1/2"-6-1/2" Reveal       - Dark Duranodic Bronze         Super Parallel Arm Thum Turn Hold Open Tack, Pull Side Frame Face Mounted       T       - Spring Stop IS Arm Hold Open, Track, Pull Side Frame Face Mounted       - Spring Stop IS Arm Hold Open, Track Double Egress, Pull Side Transom Mounted       - Spring Stop IS Arm Hold Open, Track Hold Open, Pull Side Transom Mounted       - Spring Stop IS Arm Hold Open, Pull Side Transom Mounted       - Spring Stop IS Arm Hold Open, Pull Side Transom Mounted       - Spring Stop IS Arm Hold Open, Pull Side Transom Mounted       - Track Application, 90° Pocket Door Mounted       - FT       - FI       - FI       - FI       - FI       - Spring Stop IS Arm Hold Open, Pull Side Frame Face Mounted       - Track Hold Open, Pull Side Frame Face Mounted       - Track Hold Open, Pull Side Frame Face Mounted       - Track Application, 90° Pocket Door (8956 only)       - Track Application, 90° Pocket Fire Door, Includes 3 ea. 75520 Pocket Fire Door (8956 only)       - Track Applications require (3 ea.) 75520 pocket pivots, ordered seperately.       - Fire rated, 90 TPK (90° pocket) applications require (3 ea.) 75523 pocket pivots, ordered seperately.         90 Pocket Door (8907 only) <td< td=""><td></td><td></td><td></td><td></td><td>/</td><td></td><td></td></td<>					/		
Top Jamb 3-1/2*-6-1/2* Reveal       Spring Stop IS Arm Hold Open, Top Jamb 3-1/2*-6-1/2* Reveal       - Gold         Super Parallel Arm Thumb Turn Hold Open Super Parallel Arm Thumb Turn Hold Open Track, Pull Side Door Mounted       SPAK       - Gold         Jamb Track, Pull Side Door Mounted       T       - T         Jamb Track, Pull Side Frame Face Mounted       TDE       - FT         Pull Side Transom Mounted       TH       - T         Pull Side Transom Mounted       TH       - T         Pull Side Transom Mounted       TH       - FT         Pull Side Transom Mounted       TH       - Jamb Track, Hold Open, Pull Side Transom Mounted       - TH         Pull Side Transom Mounted       FT       - FT       - Flush Track, Push Side Transom Mounted       - *** Specify handing of FMC for all JT, T, and FT applications.         Pull Side Frame Face Mounted       FTH       - Track Application, 90° Pocket Door, Includes 3 ea. 75520       - TRK Application, 90° Pocket Door (8956 only)       - Track Application, 90° Pocket Door (8956 only)         Double Lever Flat Form Arm, 90° Pocket Door (8956 only)       - Track Applications require (3 ea.) 75520 pocket       - Tack Applications require (3 ea.) 75520 pocket         Double Lever Flat Form Arm, 90° Pocket Door (8957 only)       - Track Applications require (3 ea.) 75523 pocket       - Track Applications require (3 ea.) 75523 pocket         Double Lever Flat Form Arm, 90° Pockek	Coving Stop IS					693	
Super Parallel Arm       SPA         Super Parallel Arm       SPA         Super Parallel Arm Thumb Turn Hold Open       SPAT         Super Parallel Arm Thumb Turn Hold Open       SPAK         Super Parallel Arm Hex Key Hold Open       SPAK         Track, Pull Side Door Mounted       T         Push Track, Push Side Soffit Mounted       PT         Track Nouble Egress, Pull Side Transom Mounted       TT         Push Track Hold Open, Pull Side Door Mounted       TT         Push Track Hold Open, Pull Side Door Mounted       TT         Pull Side Transom Mounted       TT         Filush Track Hold Open, Pull Side Door Mounted       TT         Pull Side Transom Mounted       TT         Filush Track Hold Open, Pull Side Frame Face Mounted       TT         Filush Track Hold Open, Pull Side Frame Face Mounted       TTack Application, 90° Pocket Door, Includes 3 ea. 75520         Pull Side Frame Face Mounted       TTAck Application, 90° Pocket Door (8956 only)         Track Application, 90° Pocket Pivots (8956 only)       Track Application, 90° Pocket Pivots (8956 only)         Track Application, 90° Pocket Pivots (8956 only)       Track Application, 90° Pocket Pivots, 07520 Pocket         Sorter Law Filat Form Arm, 90° Pocket Door (8956 only)       Track Application, 90° Pocket Pivots, 07520 Pocket         Sorter Law Filat Form Arm, 90° Poc			Spring Stop IS Arm Hold Or	pen –		695	<ul> <li>Dark Duranodic Bronze</li> </ul>
Super Parallel Arm Thumb Turn Hold Open       SPAT         Super Parallel Arm Thumb Turn Hold Open       SPAT         Super Parallel Arm Hex Key Hold Open       T         Track, Pull Side Door Mounted       T         Jamb Track, Pull Side Frame Face Mounted       JT         Push Track, Push Side Soffit Mounted       PT         Track Double Egress,       TDE         Pull Side Transom Mounted       FT         Pull Side Transom Mounted       FT         Pull Side Door Mounted       TH         Jamb Track Hold Open,       TH         Pull Side Door Mounted       FT         Pull Side Door Mounted       FT         Push Track Hold Open,       PTH         Push Track Hold Open,       PTH         Pull Side Frame Face Mounted       Track Double Egress Hold Open,         PUIL       Track Adplication, 90° Pocket Door,         Pull Side Frame Face Mounted       FTH         Track Application, 90° Pocket Door,       FTH         Pull Side Frame Face Mounted       FTH         Track Application, 90° Pocket Door,       FTH         Pull Side Frame Face Mounted       FTH         Track Application, 90° Pocket Door,       Track Application, 90° Pocket Door (8905 only)         Pocket Pivots (8956 only)       T					ainted	696	— Gold
Super Parallel Arm Hex Key Hold Open Track, Pull Side Door Mounted Jamb Track, Pull Side Frame Face Mounted Push Track, Double Egress, Pull Side Transom Mounted       T       *Stainless base material with brushed Satin Finish.         Push Track, Double Egress, Pull Side Transom Mounted       PT       **For optional DORMA custom color or designer color finishes, contact Customer Service.         Push Track Hold Open, Pull Side Door Mounted       FT       -       Flush Track, Push Side Transom Mounted       ***Specify handing of FMC for all JT, T, and FT         Push Track Hold Open, Push Side Soffit Mounted       FTH       -       Jamb Track Hold Open, Pull Side Frame Face Mounted       ***Specify handing of FMC for all JT, T, and FT applications.         Flush Track Hold Open, Pull Side Frame Face Mounted       FTH       -       Track Application, 90° Pocket Door (8956 only)       -       Track Application, 90° Pocket Door (8956 only)       -       NOTES:         Track Application, 90° Pocket Door (8907 only)       -       Track Application, 90° Pocket Fire Door, Includes 3 ea. 75520 Pocket       -       Track Application, 90° Pocket Fire Door, Includes 3 ea. 75520 Pocket       -       Track Application, 90° Pocket Pirots       -       Fire rated, 90 TPK (90° pocket) applications require (3 ea.) 75520 pocket pivots, ordered seperately.       -       Fire rated, 90 TPK (90° pocket) applications require (3 ea.) 75523 pocket pivots, ordered seperately.	•					PNT	Special sprayed finish (must specify)**
Track, Pull Side Door Mounted       T         Jamb Track, Pull Side Frame Face Mounted       JT         Push Track, Push Side Soffit Mounted       PT         Track Double Egress,       TDE         Pull Side Transom Mounted       FT         Track Hold Open,       TH         Pull Side Door Mounted       FT         Pull Side Soffit Mounted       FT         Push Track Hold Open,       PTH         Push Track Hold Open,       PTH         Push Side Soffit Mounted       PTH         Pull Side Frame Face Mounted       FTH         Pull Side Frame Face Mounted <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(must specify)</td>							(must specify)
Jamb Track, Pull Side Frame Face Mounted Push Track Double Egress, Pull Side Transom Mounted Track Hold Open, Pull Side Door Mounted PT Track Hold Open, Pull Side Frame Face Mounted PT Track Hold Open, Push Track Hold Open, Pull Side Frame Face Mounted TDE TTack Application, 90° Pocket Door Nortes: Track Application, 90° Pocket Door Pocket Pivots (8956 only) Double Lever Flat Form Arm, 90° Pocket Door (8907 only) Double Lever Flat Form Arm, 90° Pocket Door (8907 only)							
Push Track, Push Side Soffit Mounted       PT       *Stainless base material with brushed         Pull Side Transom Mounted       TDE       **For optional DORMA custom color or         Pull Side Transom Mounted       FT       -       Flush Track, Push Side Transom Mounted       **For optional DORMA custom color or         Pull Side Door Mounted       TH       -       Jamb Track, Hold Open,       ***Specify handing of FMC for all JT, T, and         Push Track Hold Open,       PTH       -       Jamb Track Hold Open,       ****Specify handing of FMC for all JT, T, and         Push Side Soffit Mounted       PTH       -       Jamb Track Hold Open,       *****Specify handing of FMC for all JT, T, and         Flush Track Hold Open,       PTH       -       Track Double Egress Hold Open,       ************************************	,	L					
Track Double Egress, - Pull Side Transom Mounted       TDE       **For optional DORMA custom color or designer color finishes, contact Customer Service.         Pull Side Door Mounted       FT       -       Flush Track, Push Side Transom Mounted       ***Specify handing of FMC for all JT, T, and FT applications.         Push Track Hold Open, Push Side Soffit Mounted       PTH       -       JTH       -         Push Track Hold Open, Push Side Soffit Mounted       PTH       -       Track Double Egress Hold Open, Pull Side Frame Face Mounted       FT applications.         Fush Track Abdid Open, Pull Side Frame Face Mounted       FTH       -       Track Application, 90° Pocket Door, Includes 3 ea. 75520       -       Track Application, 90° Pocket Door (8956 only)       -       Track Application, 90° Pocket Door (8907 only)       -       Track Application, 90° Pocket Pivots       -       Non-fire rated, 90 TPK (90° pocket) applications require (3 ea.) 75520 pocket         Double Lever Flat Form Arm, 90° Pocket Door (8907 only)       -       Double Lever Flat Form, 180° Pocket Door (8907 only)       -       Double Lever Flat Form, 180° Pocket Door (8907 only)       -       Fire rated, 90 TPK (90° pocket) applications require (3 ea.) 75523 pocket pivots, ordered seperately.	,						aterial with brushed
Pull Side Transom Mounted       FT       Flush Track, Push Side Transom Mounted       Hot open, Pull Side Transom Mounted       Hot open, Pull Side Door Mounted       FT       Flush Track, Push Side Transom Mounted       Hot open, Pull Side Door Mounted       FT       Hot open, Pull Side Door Mounted       FT       FT       Flush Track, Push Side Transom Mounted       Hot open, Pull Side Door Mounted       FT       Hot open, Pull Side Frame Face Mounted       FT       FT<	Track Double Egress,						RMA custom color or
Pull Side Door Mounted       IR       Jamb Track Hold Open, Push Track Hold Open, Push Side Soffit Mounted       JTH       Jamb Track Hold Open, Pull Side Frame Face Mounted       ***Specify handing of FMC for all JT, T, and FT applications.         Flush Track Hold Open, Pull Side Frame Face Mounted       PTH       Track Double Egress Hold Open, Pull Side Frame Face Mounted       NOTES:         Track Application, 90° Pocket Door, Includes 3 ea. 75520 Pocket Pivots (8956 only)       Track Application, 90° Pocket Door (8956 only)       Non-fire rated, 90TPK (90° pocket) applications require (3 ea.) 75520 pocket         Double Lever Flat Form Arm, 90° Pocket Door (8907 only)       Track Application, 90° Pocket Pivots       Track Application, 90° Pocket Pivots         Bouble Lever Flat Form Arm, 90° Pocket Door (8907 only)       Double Lever Flat Form, 180° Pocket Door (8907 only)       Fire rated, 90 TPK (90° pocket) applications require (3 ea.) 75523 pocket pivots, ordered seperately.	Pull Side Transom Mounted		<ul> <li>Flush Track, Push Side Tra</li> </ul>	ansom Mounted			
Push Track Hold Open, Push Side Soffit Mounted       JTH       Jamb Track Hold Open, Pull Side Frame Face Mounted       FT applications.         Flush Track Hold Open, Pull Side Frame Face Mounted       Track Double Egress Hold Open, Pull Side Frame Face Mounted       Track Double Egress Hold Open, Pull Side Frame Face Mounted       NOTES:         Track Application, 90° Pocket Door, Includes 3 ea. 75520 Pocket Pivots (8956 only)       Track Application, 90° Pocket Door (8956 only)       Track Application, 90° Pocket Fire Door, Includes 3 ea. 75523 Pocket Pivots       Non-fire rated, 90TPK (90° pocket) applications require (3 ea.) 75520 pocket         Double Lever Flat Form Arm, 90° Pocket Door (8907 only)       Track Application, 90° Pocket Fire Door, Includes 3 ea. 75523 Pocket Pivots       Track Application, 90° Pocket Pivots       Fire rated, 90 TPK (90° pocket) applications require (3 ea.) 75523 pocket         Double Lever Flat Form Arm, 90° Pocket Door (8907 only)       Double Lever Flat Form, 180° Pocket Door (8907 only)       pivots, ordered seperately.		ТН					
Push Side Soffit Mounted       PTH       Track Double Egress Hold Open, Pull Side Frame Face Mounted       NOTES:         Flush Track Hold Open, Pull Side Frame Face Mounted       FTH       Track Application, 90° Pocket Door, Includes 3 ea. 75520 – Pocket Pivots (8956 only)       Track Application, 90° Pocket Door (8907 only)       Track Application, 90° Pocket Fire Door, Includes 3 ea. 75520 – Pocket Door (8907 only)       Track Application, 90° Pocket Fire Door, Includes 3 ea. 75520 – Pocket Door (8907 only)       Track Application, 90° Pocket Fire Door, Includes 3 ea. 75523 Pocket Pivots       Non-fire rated, 90TPK (90° pocket) applications require (3 ea.) 75520 pocket         Double Lever Flat Form Arm, 90° Pocket Door (8907 only)       Double Lever Flat Form, 180° Pocket Door (8907 only)       Double Lever Flat Form, 180° Pocket Door (8907 only)       Pouble Lever Flat Form, 180° Pocket Door (8907 only)       Fire rated, 90 TPK (90° pocket pivots, ordered seperately.		JTH		inted			ng of FMC for all JT, T, and
IDEH       Pull Side Frame Face Mounted       NOTES:         Flush Track Hold Open, Pull Side Frame Face Mounted       FTH       - Track Application, 90° Pocket Door, Includes 3 ea. 75520 – Pocket Pivots (8956 only)       - Track Application, 90° Pocket Door (8956 only)       - Non-fire rated, 90TPK (90° pocket) applications require (3 ea.) 75520 pocket         Double Lever Flat Form Arm, 90° Pocket Door (8907 only)       - Track Application, 90° Pocket Pivots       - Track Application, 90° Pocket Fire Door, Includes 3 ea. 75523 Pocket Pivots       - Track Application, 90° Pocket Fire Door, Includes 3 ea. 75523 Pocket Pivots       - Fire rated, 90 TPK (90° pocket) applications require (3 ea.) 75523 pocket Pivots         00° Pocket Door (8907 only)       - Double Lever Flat Form, 180° Pocket Door (8907 only)       - Double Lever Flat Form, 180° Pocket Door (8907 only)       - Double Lever Flat Form, 180° Pocket Door (8907 only)       - Double Lever Flat Form, 180° Pocket Door (8907 only)       - Double Lever Flat Form, 180° Pocket Door (8907 only)       - Double Lever Flat Form, 180° Pocket Door (8907 only)       - Double Lever Flat Form, 180° Pocket Door (8907 only)       - Double Lever Flat Form, 180° Pocket Door (8907 only)       - Double Lever Flat Form, 180° Pocket Door (8907 only)       - Double Lever Flat Form, 180° Pocket Door (8907 only)       - Double Lever Flat Form, 180° Pocket Door (8907 only)       - Double Lever Flat Form, 180° Pocket Door (8907 only)       - Double Lever Flat Form, 180° Pocket Door (8907 only)       - Double Lever Flat Form, 180° Pocket Door (8907 only)       - Double Lever Flat Form, 180° Pocket Door (8907 only)       - Double Lever Flat Form		PTH			ιιαρρ	ilcations.	
Pull Side Frame Face Mounted       FTH       Track Application, 90° Pocket Door, Includes 3 ea. 75520       TPKT90/P       Track Application, 90° Pocket Door (8956 only)       Non-fire rated, 90TPK (90° pocket)         Double Lever Flat Form Arm, 90° Pocket Door (8907 only)       Track Application, 90° Pocket Fire Door, Includes 3 ea. 75520       TPKT90/P       Track Application, 90° Pocket Fire Door, Includes 3 ea. 75523 Pocket Pivots       Non-fire rated, 90TPK (90° pocket)         Double Lever Flat Form Arm, 90° Pocket Door (8907 only)       AFPKT180       Double Lever Flat Form, 180° Pocket Door (8907 only)       Double Lever Flat Form, 180° Pocket Door (8907 only)       Pocket Door (8907 only)       Fire rated, 90 TPK (90° pocket)	Fluch Track Hold Open	TDEH					
Track Application, 90° Pocket Door, Includes 3 ea. 75520       TPKT90/P       -       Includes 3 ea. 75520 pocket Door (8956 only)       •       Non-fire rated, 90TPK (90° pocket) applications require (3 ea.) 75520 pocket         Double Lever Flat Form Arm, 90° Pocket Door (8907 only)       -       Track Application, 90° Pocket Pivots       •       Non-fire rated, 90TPK (90° pocket)         AFPKT180       -       Track Application, 90° Pocket Pivots       •       Non-fire rated, 90 TPK (90° pocket)         Bouble Lever Flat Form Arm, 90° Pocket Door (8907 only)       -       Track Application, 90° Pocket Pivots       •         AFPKT180       -       Double Lever Flat Form, 180° Pocket Door (8907 only)       •       Fire rated, 90 TPK (90° pocket)		FTH					•
Pocket Pivots (8956 only)       TPKT90/PF       Track Application, 90° Pocket Fire Door, Includes 3 ea. 75523 Pocket Pivots       pivots, ordered separately.         90° Pocket Door (8907 only)       AFPKT180       Double Lever Flat Form, 180° Pocket Door (8907 only)       Double Lever Flat Form, 180° Pocket Door (8907 only)       pivots, ordered separately.	Track Application, 90° Pocket Door,	ТРКТ90		ıly)			
Double Lever Flat Form Arm, 90° Pocket Door (8907 only)       AFPKT180       -       Includes 3 ea. 75523 Pocket Pire Door, Includes 3 ea. 75523 Pocket Pivots       •       Fire rated, 90 TPK (90° pocket) applications require (3 ea.) 75523 pocket pivots, ordered seperately.	Includes 3 ea. 75520	ТРКТ90/Р					
90° Pocket Door (8907 only) - AFPK190 AFPKT180 - Double Lever Flat Form, 180° Pocket Door (8907 only) applications require (3 ea.) 75523 pocket pivots, ordered seperately.							
<b>AFPKT180</b> – Boddle Level Harrolli, 180° Pocket Door (8907 only) pivots, ordered seperately.			Double Lever Flat Form				
Arm Type       • FMC is only cover available in plated finish.				only)	pivot	s, ordered	seperately.
		Arm Type			<ul> <li>FMC</li> </ul>	is only cov	er available in plated finish.

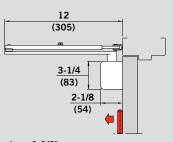
#### **Technical Drawing Symbols & Notes**

- - Recommended application
- N/A Not applicable/application not recommended
- 𝔄 Opening force 5 lb or less on interior doors

# $\mathsf{REGULAR} \times \mathsf{FLAT} \ \mathsf{FORM} \ \mathsf{ARM}$

### 8916 AF89 8956 AF89





**NOTE:** The effective degree at which the backcheck occurs is determined by a **back-check positioning** adjustment. Specifically designed for parallel arm applications, it

advances the backcheck to an approximate range similar to regular and top jamb ap-

8900 Series closer is shipped with the backcheck positioning valve on.

plications. 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

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

Minimum door rail for mounting closer 3-3/8". Minimum door rail to bottom of cover 3-5/8".



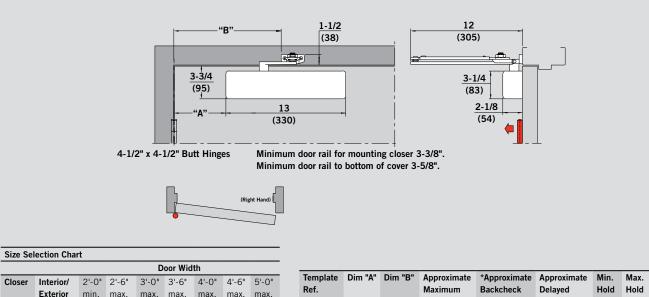
Size Se	Size Selection Chart										
	Door Width										
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"			
	Exterior	min.	max.	max.	max.	max.	max.	max.			
8916	Interior	•	•	Ġ.	ę.	ę.	ę.	N/A			
	Exterior	•	•	•	•	•	N/A	N/A			
8956	Interior	N/A	N/A	N/A	N/A	•	•	•			
	Exterior	N/A	N/A	N/A	•	•	•	N/A			

Maximum		*Approximate	Approximate		
Opening		Backcheck	Delayed Action		
	180°	65°–180°	180°–65°		

 $^{\ast}$  Backcheck positioning valve factory preset to on, advancing backcheck approximately 15°.

## $\mathsf{REGULAR} \times \mathsf{FRICTION} \text{ HOLD OPEN}$

### 8916 FH 8956 FH



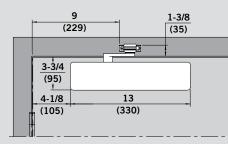
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
	Exterior	min.	max.	max.	max.	max.	max.	max.
8916	Interior	•	•	ę.	ę.	ę.	Ġ.	N/A
	Exterior	•	•	•	•	•	N/A	N/A
8956	Interior	N/A	N/A	N/A	N/A	•	•	•
	Exterior	N/A	N/A	N/A	•	•	•	N/A

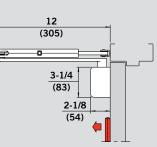
Template Ref.	Dim "A"	Dim "B"	Approximate Maximum Opening	*Approximate Backcheck	Approximate Delayed Action	Min. Hold Open	Max. Hold Open
To 100°	<u>5-3/4"</u> (146)	<u>11-5/8"</u> (295)	130°	65°–130°	90°–65°	85°	110°
100° to 120°	<u>3-3/4"</u> (95)	<u>8-7/8"</u> (225)	180°	70°–180°	100°–70°	105°	170°

 $^{\ast}$  Backcheck positioning valve factory preset to on, advancing backcheck approximately  $15^{\circ}$ 

## $\mathsf{REGULAR} \times \mathsf{PLUNGER} \text{ HOLD OPEN}$

### 8916 PH 8956 PH





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

Minimum door rail for mounting closer 3-3/8". Minimum door rail to bottom of cover 3-5/8".

(Right Hand)

Size Selection Chart

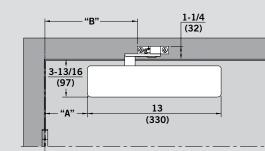
0120 001									
		Door Width							
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	
	Exterior	min.	max.	max.	max.	max.	max.	max.	
8916	Interior	•	•	ę.	ę.	Ġ.	ę.	N/A	
0910	Exterior	•	•	•	•	•	N/A	N/A	
8956	Interior	N/A	N/A	N/A	N/A	•	•	•	
6906	Exterior	N/A	N/A	N/A	•	•	•	N/A	

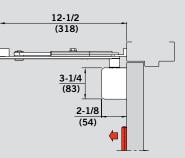
Maximum	*Approximate	Approximate	Minimum	Maximum
Opening	Backcheck	Delayed Action	Hold Open	Hold Open
180°	65°-180°	180°-70°	30°	

\* Backcheck positioning valve factory preset to on, advancing backcheck approximately 15°.

# **REGULAR × CUSHION IS ARM**

### 8916 IS/ISH 8956 IS/ISH





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

Minimum door rail for mounting closer 3-3/8". Minimum door rail to bottom of cover 3-13/16".



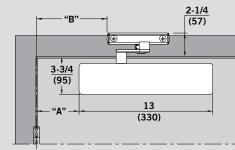
Size Se	Size Selection Chart											
Size Selection Chart Door Width												
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"				
	Exterior	min.	max.	max.	max.	max.	max.	max.				
8916	Interior	•	•	ę.	ę.	ę.	ę.	N/A				
	Exterior	•	•	•	•	•	N/A	N/A				
8956	Interior	N/A	N/A	N/A	N/A	•	•	•				
	Exterior	N/A	N/A	N/A	•	•	•	N/A				

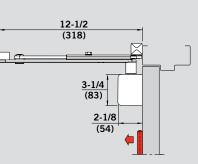
Template Ref.	Dim "A"	Dim "B"	Cushion/ Hold Open	*Approximate Backcheck	Approximate Delayed Action
85°	<u>5-3/4"</u> (146)	<u>13-5/8"</u> (346)	85°	70°–85°	70°–85°
90°	<u>5-1/8"</u> (130)	<u>13-1/4"</u> (337)	90°	70°–90°	70°–90°
95°	<u>4-5/16"</u> (110)	( <u>13"</u> (330)	95°	70°–95°	70°–95°
100°	<u>5-1/4"</u> (133)	<u>12-3/8"</u> (314)	100°	70°-100°	70°-100°
105°	<u>3-3/4"</u> (95)	( <u>12"</u> ( <u>305</u> )	105°	75°–105°	70°–105°
110°	<u>3-3/8"</u> (92)	<u>11-5/8"</u> (295)	110°	75°-110°	70°-110°

\* Backcheck positioning valve factory preset to on, advancing backcheck approximately 15°

### **REGULAR × SPRING STOP IS ARM**

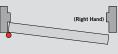
8916 SIS/SISH 8956 SIS/SISH





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

Minimum door rail for mounting closer 3-3/8". Minimum door rail to bottom of cover 3-3/4".



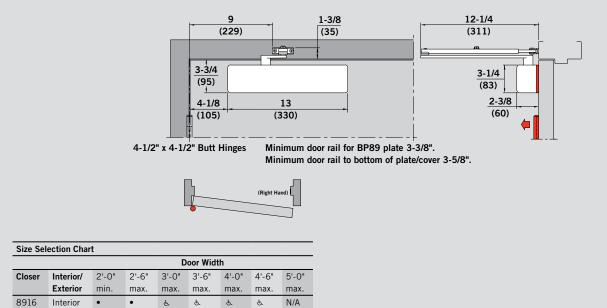
Size Selection Chart									
		Door Width							
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"			
	Exterior	min.	max.	max.	max.	max.			
8916	Interior	•	•	ę.	ę.	ę.			
	Exterior	•	•	•	•	•			
8956	Interior	N/A	N/A	N/A	N/A	•			
	Exterior	N/A	N/A	N/A	•	•			

Template Ref.	Dim "A"	Dim "B"	**Dead Stop/ Hold Open	*Approximate Backcheck	Approximate Delayed Action
85°	<u>8-7/8"</u> (226)	<u>11-9/16"</u> (294)	85°	60°–85°	70°–85°
90°	<u>8-1/4"</u> (210)	<u>10-15/16"</u> (278)	90°	60°–90°	70°–90°
100°	<u>7-3/8"</u> (188)	<u>10-1/16"</u> (256)	100°	70°-100°	70°-100°
110°	<u>6-5/8"</u> (168)	<u>9-5/16"</u> (237)	110°	70°-110°	70°-110°

\*Backcheck positioning valve factory preset to on, advancing backcheck approximately 15°. \*\* Hold open is approximately  $5^{\circ}$ -7° less than the dead stop angle listed in the chart.

### REGULAR × FLAT FORM ARM × BACKPLATE

### 8916 AF89 BP89 8956 AF89 BP89



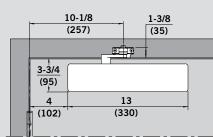
8916	Interior	•	•	ę.	Ġ.	Ġ.	ę.	N/A	
	Exterior	•	•	•	•	•	N/A	N/A	Maxir
8956	Interior	N/A	N/A	N/A	N/A	•	•	•	Open
	Exterior	N/A	N/A	N/A	•	•	•	N/A	180°

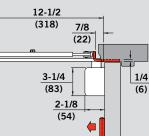
Maximum	*Approximate	Approximate
Opening	Backcheck	Delayed Action
180°	65°-180°	180°–70°

<sup>\*</sup> Backcheck positioning valve factory preset to on, advancing backcheck approximately 15°.

### REGULAR × FLAT FORM ARM × MORTISED JAMB BRACKET

8916 AF8MJ 8956 AF8MJ





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

Minimum door rail for mounting closer 3-3/8". Minimum door rail to bottom of cover 3-5/8".



|--|

Size Selection Chart

			Door Width						
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	
	Exterior	min.	max.	max.	max.	max.	max.	max.	
8916	Interior	•	•	ę.	ę.	Ġ.	Ġ.	N/A	
	Exterior	•	•	•	•	•	N/A	N/A	
8956	Interior	N/A	N/A	N/A	N/A	•	•	•	
	Exterior	N/A	N/A	N/A	•	•	•	N/A	

Maximum	*Approximate	Approximate
Opening	Backcheck	Delayed Action
180°	80°-180°	

\* Backcheck positioning valve factory preset to on, advancing backcheck approximately 15°.

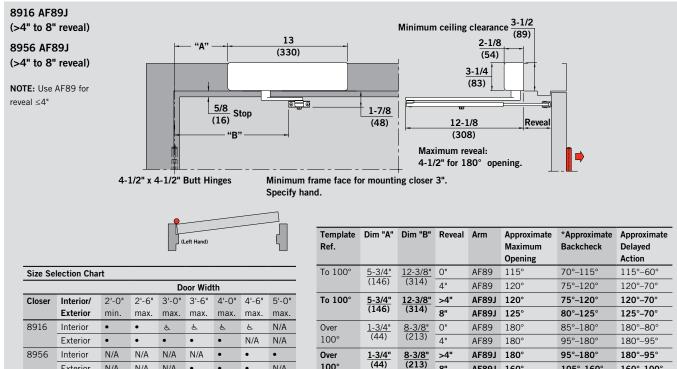
Exterior

N/A

N/A

N/A •

# TOP JAMB × FLAT FORM ARM



100°

\*Backcheck positioning valve factory preset to on, advancing backcheck approximately 15°. NOTE: Bold type shows supplied arm.

AF89J 160°

105°-160°

160°-100°

(213)

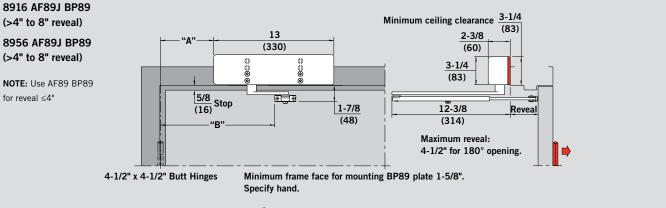
8"

# TOP JAMB × FLAT FORM ARM × BACKPLATE

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N/A





Size Se	Size Selection Chart											
		Door Width										
Closer	Interior/	2'-0"	2'-0" 2'-6" 3'-0" 3'-6" 4'-0" 4'-6" 5'-0"									
	Exterior	min.	max.	max.	max.	max.	max.	max.				
8916	Interior	•	•	ę.	ę.	Ġ.	ę.	N/A				
	Exterior	•	•	•	•	•	N/A	N/A				
8956	Interior	N/A	N/A	N/A	N/A	•	•	•				
	Exterior	N/A	N/A	N/A	•	•	•	N/A				

Template Ref.	Dim "A"	Dim "B"	Reveal	Arm	Approximate Maximum Opening	*Approximate Backcheck	Approximate Delayed Action
To 100°	5-3/4"	<u>12-3/8"</u>	0"	AF89	115°	70°-115°	115°-60°
	(146)	(314)	4"	AF89	120°	75°–120°	120°-70°
To 100°	<u>5-3/4"</u>	12-3/8"	>4"	AF89J	120°	75°–120°	120°-70°
	(146)	(314)	8"	AF89J	125°	80°–125°	125°–70°
Over	<u>1-3/4"</u>	8-3/8"	0"	AF89	180°	85°-180°	180°-80°
100°	(44)	(213)	4"	AF89	180°	95°-180°	180°-95°
Over			>4"	AF89J	180°	95°–180°	180°–95°
100°	(44)	(213)	8"	AF89J	160°	105°–160°	160°-100°

\*Backcheck positioning valve factory preset to on, advancing backcheck approximately 15°. NOTE: Bold type shows supplied arm.

### TOP JAMB DROP $\times$ FLAT FORM ARM $\times$ BACKPLATE

### 8916 AF89J BP89

(>4" to 8" reveal)

8956 AF89J BP89 (>4" to 8" reveal)

NOTE: Use AF89 for reveal ≤4"

Size Selection Chart

Interior/

Exterior

Interior

Interior

Exterior

Exterior

2'-0"

min.

N/A

N/A

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2'-6"

max.

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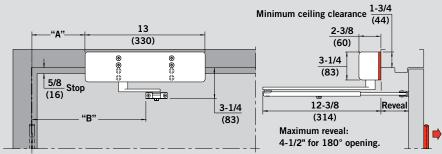
N/A

N/A

Closer

8916

8956



4-1/2" x 4-1/2" Butt Hinges Minimum frame face for mounting BP89 plate 1-5/8". Specify hand.

(Left Hand)

4'-6"

max.

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N/A

5'-0"

max.

N/A

N/A

N/A

•

Door Width

3'-0" 3'-6" 4'-0"

6. 6

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max. max. max.

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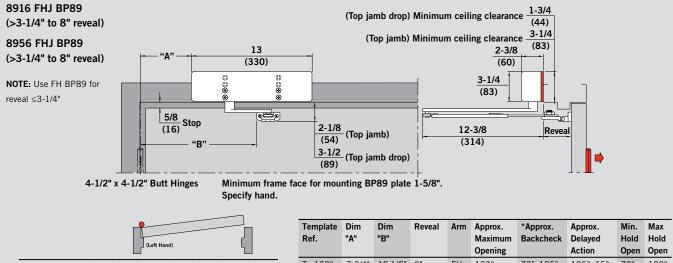
N/A N/A

N/A •

Template Ref.	Dim "A"	Dim "B"	Reveal	Arm	Approximate Maximum	*Approximate Backcheck	Approximate Delayed
					Opening		Action
To 100°	<u>5-3/4"</u>	<u>12-3/8"</u>	0"	AF89	115°	70°–115°	115°-60°
	(146)	(314)	4"	AF89	120°	75°–120°	120°-70°
To 100°	5-3/4"		>4"	AF89J	120°	75°–120°	120°-70°
	(146)		8"	AF89J	125°	80°–125°	125°–70°
Over	<u>1-3/4"</u>	<u>8-3/8"</u>	0"	AF89	180°	85°–180°	180°-80°
100°	(44)	(213)	4"	AF89	180°	95°–180°	180°–95°
Over	<u>-</u>		>4"	AF89J	180°	95°–180°	180°–95°
100°	(44)	(213)	8"	<b>AF891</b>	160°	105°-160°	160°-100°

\*Backcheck positioning valve factory preset to on, advancing backcheck approximately 15°. NOTE: Bold type shows supplied arm.

# TOP JAMB × FRICTION HOLD OPEN × BACKPLATE

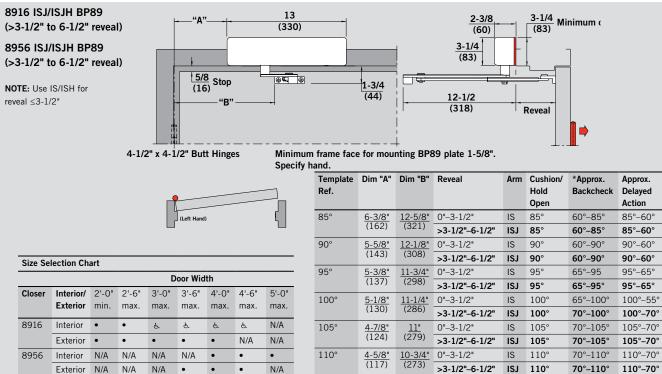


Size Se	Size Selection Chart											
		Door Width										
Closer	Interior/	2'-0"	2'-0" 2'-6" 3'-0" 3'-6" 4'-0" 4'-6" 5'-0"									
	Exterior	min.	max.	max.	max.	max.	max.	max.				
8916	Interior	•	•	ę.	ę.	ę.	ę.	N/A				
	Exterior	•	•	•	•	•	N/A	N/A				
8956	Interior	N/A	N/A	N/A	N/A	•	•	•				
	Exterior	N/A	N/A	N/A	•	•	•	N/A				

Template Ref.	Dim "A"	Dim "B"	Reveal	Arm	Approx. Maximum	*Approx. Backcheck	Approx. Delayed	Min. Hold	Max Hold
					Opening		Action	Open	Open
To 100°	7-3/4"	12-1/2"	0"	FH	103°	70°–105°	105°-65°	70°	100°
	(197) (318)		4"	FH	104°	70°–105°	105°-70°	70°	100°
To 100°	<u>7-3/4"</u> <u>12-1/2</u>		>3-1/4"	FHJ	104°	65°–105°	105°–65°	70°	100°
	(197)	(318)	8"	FHJ	104°	° 70°–105° 105°–70°		70°	100°
Over	<u>3-1/2"</u>	8-1/4"	0"	FH	180°	85°-180°	180°-85°	70°	170°
100°	(89)	(210)	4"	FH	180°	95°–180°	180°-95°	70°	170°
Over	3-1/2"	8-1/4"	>3-1/4"	FHJ	180°	90°–180°	180°–90°	70°	170°
100°	(89)	(210)	8"	FHJ	165°	100°-165°	165°-100°	60°	155°

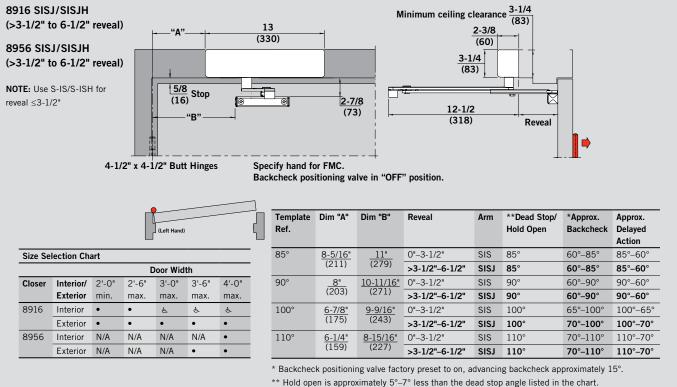
\*Backcheck positioning valve factory preset to on, advancing backcheck approximately 15°. NOTE: Bold type shows supplied arm.

# TOP JAMB $\times$ CUSHION IS ARM $\times$ BACKPLATE



\* Backcheck positioning valve factory preset to on, advancing backcheck approximately 15°. NOTE: Bold type shows supplied arm.

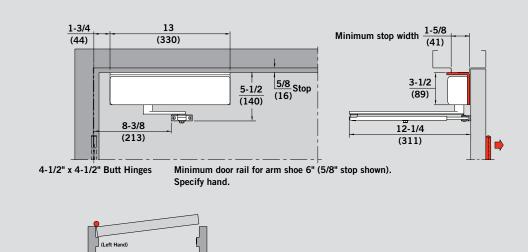
### TOP JAMB × SPRING STOP IS ARM



NOTE: Bold type shows supplied arm.

### TOP JAMB $\times$ FLAT FORM ARM $\times$ ANGLE BRACKET

### 8916 AF89 AB89 8956 AF89 AB89



Size Selec	ction Chart							
			Door Width					
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"
	Exterior	min.	max.	max.	max.	max.	max.	max.
8916	Interior	•	•	ę.	ę.	ę.	Ġ.	N/A
	Exterior	•	•	•	•	•	N/A	N/A
8956	Interior	N/A	N/A	N/A	N/A	•	•	•
	Exterior	N/A	N/A	N/A	•	•	•	N/A

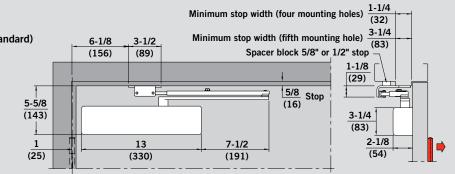
Maximum	*Approximate	Approximate
Opening	Backcheck	Delayed Action
180°	70°–180°	

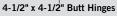
\* Backcheck positioning valve factory preset to on, advancing backcheck approximately 15°.

# PARALLEL ARM $\times$ FLAT FORM ARM

### 8916 AF89P

8956 AF89P (P89 bracket furnished standard)





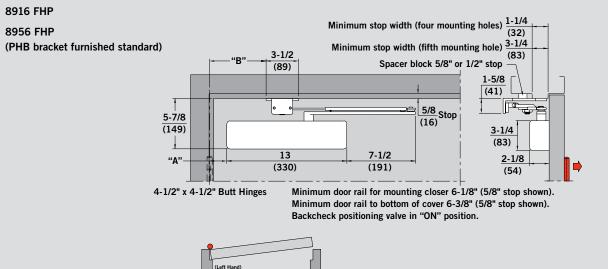
Minimum door rail for mounting closer 5-3/4" (5/8" stop shown). Minimum door rail to bottom of cover 6-1/8" (5/8" stop shown). Backcheck positioning valve in "ON" position.



Size Sel	ection Chart	:							
			Door Width						
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"		
	Exterior	min.	max.	max.	max.	max.	max.		
8916	Interior	•	•	ę.	ę.	Ŀ.	N/A		
	Exterior	•	•	•	•	N/A	N/A		
8956	Interior	N/A	N/A	N/A	•	•	•		
	Exterior	N/A	N/A	•	•	•	N/A		

Maximum	Approximate	Approximate	Minimum
Opening	Backcheck	<b>Delayed Action</b>	Door Width
180°	60°–180°	180°–70°	24"

# PARALLEL ARM × FRICTION HOLD OPEN



Size Sel	Size Selection Chart							
		Door Width						
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	
	Exterior	min.	max.	max.	max.	max.	max.	
8916	Interior	•	•	ę.	ę.	ę	N/A	
	Exterior	•	•	•	•	N/A	N/A	
8956	Interior	N/A	N/A	N/A	•	•	•	
	Exterior	N/A	N/A	•	•	•	N/A	

Template Ref.	Dim "A"	Dim "B"	Approx. Maximum Opening	Approx. Backcheck	Approx. Delayed Action	Min. Hold Open	Max Hold Open	Min. Door Width
To 100°	<u>5-5/8"</u> (143)	<u>10-1/2"</u> (267)	110°	65°-110°	110°-65°	45°	105°	29"
Over 100°	<u>1-1/4"</u> (32)	<u>6-1/8"</u> (156)	180°	60°–180°	180°–70°	45°	175°	24"

### PARALLEL ARM × PLUNGER HOLD OPEN

8916 PHP

8956 PHP

1 - 1/4Minimum stop width (four mounting holes) (32) 3-1/4 (P89 bracket furnished standard) Minimum stop width (fifth mounting hole) 6-1/8 3-1/2 Spacer block 5/8" or 1/2" stop (83) (156)(89) 1-1/8 (29) 5/8 Stop ٦. im 5-5/8 (16) (143) 3-1/4 (83) 1 13 7-5/8 2-1/8 (25) (330) (194) (54) 4-1/2" x 4-1/2" Butt Hinges Minimum door rail for mounting closer 5-7/8" (5/8" stop shown). Minimum door rail to bottom of cover 6-1/8" (5/8" stop shown). Backcheck positioning valve in "ON" position. Size Selection Chart Door Width Closer 2'-0" 2'-6" 3'-0" 3'-6" 4'-0" 4'-6" Interior/ Exterior max. max. min. max max. max. N/A 8916 Interior • . ę ę. ę. N/A Exterior . . . N/A ٠ Maximum Approximate Approximate Minimum Maximum Minimum N/A N/A

Opening

180°

Backcheck

60°-180°

**Delayed Action** 

180°-75°

Hold Open

30°

Hold Open

130°

Door Width

24°

14	DORMA
14	DORINA

8956

Interior

Exterior

N/A

N/A

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N/A

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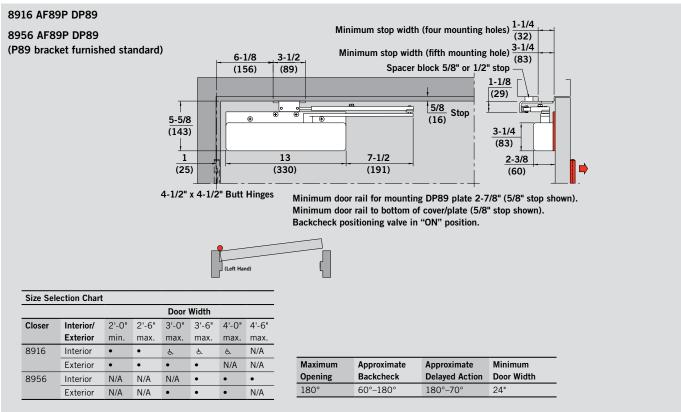
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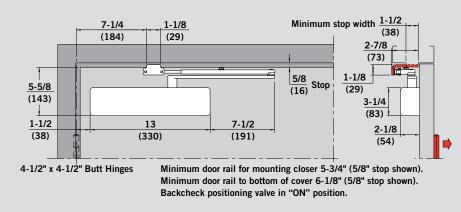
N/A

### PARALLEL ARM $\times$ FLAT FORM ARM $\times$ DROP PLATE



### PARALLEL ARM $\times$ FLAT FORM ARM $\times$ MORTISED JAMB BRACKET

### 8916 AF8MJ 8956 AF8MJ



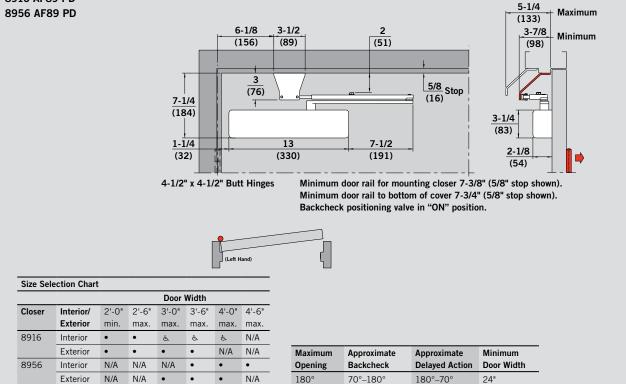


Size Selection Chart								
		Door Width						
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	
	Exterior	min.	max.	max.	max.	max.	max.	
8916	Interior	•	•	ę.	ę.	ę.	N/A	
	Exterior	•	•	•	•	N/A	N/A	
8956	Interior	N/A	N/A	N/A	•	•	•	
	Exterior	N/A	N/A	•	•	•	N/A	

Maximum	Approximate	Approximate	Minimum
Opening	Backcheck	Delayed Action	Door Width
180°	65°-180°	180°-70°	24"

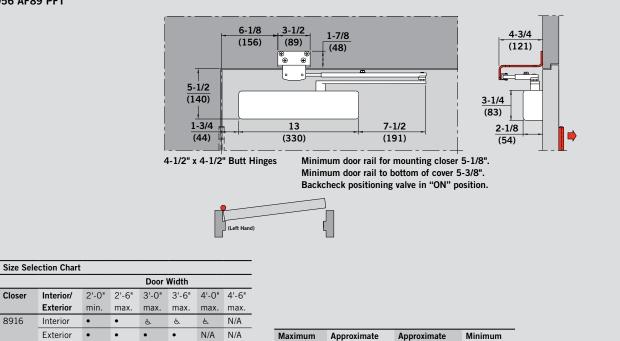
## PARALLEL ARM × FLAT FORM ARM × PARALLEL DROP BRACKET

### 8916 AF89 PD



### PARALLEL ARM × FLAT FORM ARM × PARALLEL FLUSH TRANSOM BRACKET

8916 AF89 PFT 8956 AF89 PFT



Backcheck

60°-180°

**Delayed Action** 

180°-70°

Door Width

24"

Closer

8916

8956

N/A

N/A

Interior

Exterior

N/A

N/A

N/A ٠

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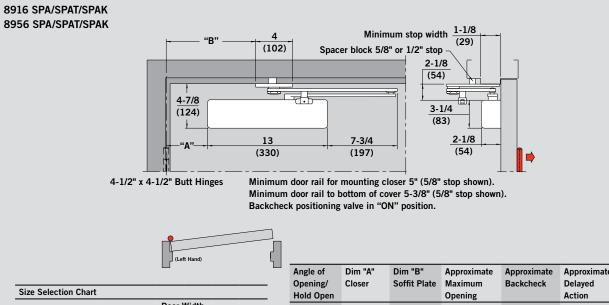
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N/A

Opening

180°

### HEAVY-DUTY SUPER PARALLEL ARM

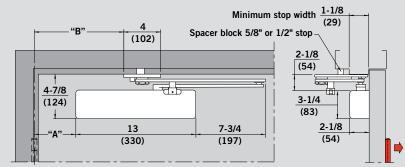


					AC 111		
		Door Width					
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"
	Exterior	min.	max.	max.	max.	max.	max.
8916	Interior	•	•	ę	ę.	ę.	N/A
	Exterior	•	•	•	•	N/A	N/A
8956	Interior	N/A	N/A	N/A	•	•	•
	Exterior	N/A	N/A	•	•	•	N/A

Angle of	Dim "A"	Dim "B"	Approximate	Approximate	Approximate	Min.				
Opening/ Hold Open	Closer	Soffit Plate	Maximum Opening	Backcheck	Delayed Action	Door Width				
To 100° H.O. 90°	<u>4-1/2"</u> (114)	<u>9-3/8"</u> (238)	100°	60°-100°	100°–65°	26"				
To 180° H.O. 125°	<u>7/8"</u> (22)	<u>6-1/4"</u> (159)	180°	70°–180°	180°–75°	23"				
(ABP) Advan	(ABP) Advanced Backcheck Position									
To 100° H.O. 90°	<u>4-3/4"</u> (121)	<u>9-7/8"</u> (251)	100°	45°-100°	100°–70°	28"				

# HEAVY-DUTY PARALLEL ARM DOOR SAVER $\times$ CUSHION

8916 DS/DST/DSK 8956 DS/DST/DSK



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

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

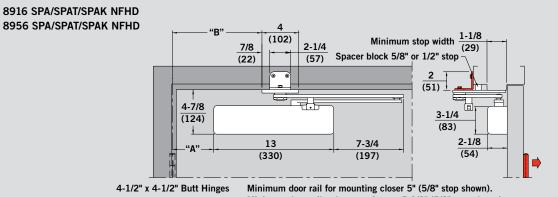
(Left Hand)	]

Size Sele	Size Selection Chart										
				Door	Width						
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"				
	Exterior	min.	max.	max.	max.	max.	max.				
8916	Interior	•	•	ę.	ę.	ę.	N/A				
	Exterior	•	•	•	•	N/A	N/A				
8956	Interior	N/A	N/A	N/A	•	•	•				
	Exterior	N/A	N/A	•	•	•	N/A				

Template Ref.	Dim "A" Closer	Dim "B" Soffit Plate	*Cushion/ Hold Open	Approximate Backcheck	Approximate Delayed Action	Min. Door Width
85°	<u>4-3/8"</u> (111)	<u>10-5/8"</u> (270)	85°	50°–85°	85°-60°	26"
90°	<u>3-1/2"</u> (89)	<u>9-3/4"</u> (248)	90°	55°–90°	90°-60°	25"
100°	<u>2-3/8"</u> (60)	<u>8-5/8"</u> (219)	100°	60°-100°	100°-65°	24"
110°	<u>1-1/4"</u> (32)	<u>7-1/2"</u> (191)	110°	65°–110°	110°-70°	23"

 $^{\ast}$  Hold open is approximately 1°–2° less than the cushion angle listed in the chart.

### HEAVY-DUTY SUPER PARALLEL ARM × NARROW FRAME BRACKET



Minimum door rail to bottom of cover 5-3/8" (5/8" stop shown). Backcheck positioning valve in "ON" position.

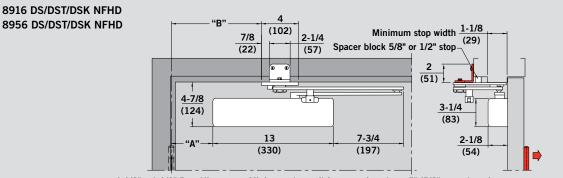
(Left Hand

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Size Selection Chart									
Door Width									
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"		
	Exterior	min.	max.	max.	max.	max.	max.		
8916	Interior	•	•	ę.	ę.	Ġ.	N/A		
	Exterior	•	•	•	•	N/A	N/A		
8956	Interior	N/A	N/A	N/A	•	•	•		
	Exterior	N/A	N/A	•	•	•	N/A		

Angle of	Dim "A"	Dim "B"	Approximate	Approximate	Approximate	Min.					
Opening/	Closer	Soffit Plate	Maximum	Backcheck	Delayed	Door					
Hold Open			Opening		Action	Width					
To 100°	<u>4-1/2"</u>	<u>9-3/8"</u>	100°	60°-100°	100°-65°	26"					
H.O. 90°	(114)	(238)									
To 180°	7/8"	<u>6-1/4"</u>	180°	70°–180°	180°–75°	23"					
H.O. 125°	(22)	(159)									
(ABP) Advan	(ABP) Advanced Backcheck Position										
To 100°	<u>4-3/4"</u>	<u>9-7/8"</u>	100°	45°-100°	100°-70°	28"					
H.O. 90°	(121)	(251)									

# HEAVY-DUTY PARALLEL ARM DOOR SAVER $\times$ CUSHION $\times$ NARROW FRAME BRACKET



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

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



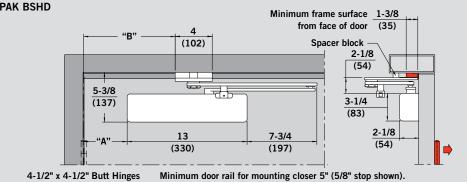
Size Sel	ection Chart						
				Door	Width		
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"
	Exterior	min.	max.	max.	max.	max.	max.
8916	Interior	•	•	ę.	ę.	Ġ.	N/A
	Exterior	•	•	•	•	N/A	N/A
8956	Interior	N/A	N/A	N/A	•	•	•
	Exterior	N/A	N/A	•	•	•	N/A

Template Ref.	Dim "A" Closer	Dim "B" Soffit Plate	*Cushion/ Hold Open	Approximate Backcheck	Approximate Delayed Action	Min. Door Width
85°	<u>4-3/8"</u> (111)	<u>10-5/8"</u> (270)	85°	50°–85°	85°-60°	26"
90°	<u>3-1/2"</u> (89)	<u>9-3/4"</u> (248)	90°	55°–90°	90°-60°	25"
100°	<u>2-3/8"</u> (60)	<u>8-5/8"</u> (219)	100°	60°-100°	100°-65°	24"
110°	<u>1-1/4"</u> (32)	<u>7-1/2"</u> (191)	110°	65°–110°	110°-70°	23"

 $^{\ast}$  Hold open is approximately 1°–2° less than the cushion angle listed in the chart.

### HEAVY-DUTY SUPER PARALLEL ARM × BLADE STOP SPACER

### 8916 SPA/SPAT/SPAK BSHD 8956 SPA/SPAT/SPAK BSHD



Minimum door rail to bottom of cover 5-3/8" (5/8" stop shown). Backcheck positioning valve in "ON" position.



Size Sele	ction Chart							Angl Ope Hold
				Door	Width			To 1
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	H.O.
	Exterior	min.	max.	max.	max.	max.	max.	To 1
8916	Interior	•	•	ę.	ę.	ę	N/A	H.O.
	Exterior	•	•	•	•	N/A	N/A	(ABI
8956	Interior	N/A	N/A	N/A	•	•	•	To 1
	Exterior	N/A	N/A	•	•	•	N/A	H.O.

Angle of Opening/ Hold Open	Dim "A" Closer	Dim "B" Soffit Plate	Approximate Maximum Opening	Approximate Backcheck	Approximate Delayed Action	Min. Door Width				
To 100° H.O. 90°	<u>4-1/2"</u> (114)	<u>9-3/8"</u> (238)	100°	60°-100°	100°-65°	26"				
To 180° H.O. 125°	<u>7/8"</u> (22)	<u>6-1/4"</u> (159)	180°	70°–180°	180°–75°	23"				
(ABP) Advanced Backcheck Position										
To 100° H.O. 90°	<u>4-3/4"</u> (121)	<u>9-7/8"</u> (251)	100°	45°-100°	100°-70°	28"				

### HEAVY-DUTY PARALLEL ARM DOOR SAVER × CUSHION × **BLADE STOP SPACER**

#### 8916 DS/DST/DSK BSHD 8956 DS/DST/DSK BSHD

Size Selection Chart

Interior/

Exterior

Interior

Exterior

Interior

Exterior

2'-0" 2'-6" 3'-(

min.

•

•

N/A

N/A

max.

.

.

N/A

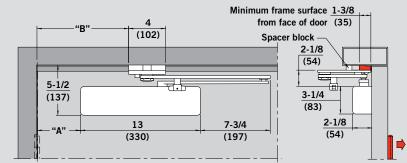
N/A

Closer

8916

8956

-



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

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



N/A

•

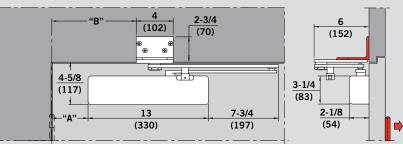
	Hand)			1	Template Ref.	Dim "A" Closer	Dim "B" Soffit Plate	*Cushion Hold Ope
Door	Width				85°	<u>4-3/8"</u>	<u>10-5/8"</u>	85°
3'-0"	3'-6"	4'-0"	4'-6"			(111)	(270)	
max.	max.	max.	max.		90°	3-1/2"	9-3/4"	90°
ę.	ė.	ė.	N/A			(89)	(248)	
•	•	N/A	N/A		100°	<u>2-3/8"</u> (60)	<u>8-5/8"</u> (219)	100°
N/A	•	•	•				,	
IN/A	•	•	•		110°	1-1/4"	7-1/2"	110°

Template Ref.	Dim "A" Closer	Dim "B" Soffit Plate	*Cushion/ Hold Open	Approximate Backcheck	Approximate Delayed Action	Min. Door Width
85°	<u>4-3/8"</u> (111)	<u>10-5/8"</u> (270)	85°	50°–85°	85°-60°	26"
90°	<u>3-1/2"</u> (89)	<u>9-3/4"</u> (248)	90°	55°–90°	90°-60°	25"
100°	<u>2-3/8"</u> (60)	<u>8-5/8"</u> (219)	100°	60°-100°	100°-65°	24"
110°	<u>1-1/4"</u> (32)	<u>7-1/2"</u> (191)	110°	65°–110°	110°-70°	23"

\* Hold open is approximately  $1^{\circ}-2^{\circ}$  less than the cushion angle listed in the chart.

### HEAVY-DUTY SUPER PARALLEL ARM $\times$ FLUSH TRANSOM BRACKET

8916 SPA/SPAT/SPAK FTHD 8956 SPA/SPAT/SPAK FTHD



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

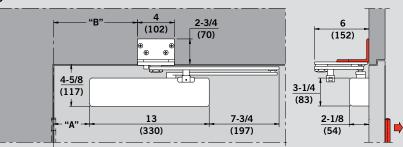
Minimum door rail for mounting closer 4-3/4" (5/8" stop shown) Minimum door rail to bottom of cover 5-1/8" (5/8" stop shown) Backcheck positioning valve in "ON" position.

					eft Hand)			
Size Sel	ection Char	: :						
		Door Width						
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	
	Exterior	min.	max.	max.	max.	max.	max.	
8916	Interior	•	•	ę.	ę.	e	N/A	
	Exterior	•	•	•	•	N/A	N/A	
8956	Interior	N/A	N/A	N/A	•	•	•	
	Exterior	N/A	N/A	•	•	•	N/A	

Angle of	Dim "A"	Dim "B"	Approximate	Approximate	Approximate	Min.
Opening/	Closer	(F102)	Maximum	Backcheck	Delayed	Door
Hold Open		Bracket	Opening		Action	Width
To 100°	4-1/2"	<u>9-3/8"</u>	100°	60°-100°	100°-65°	26"
H.O .90°	(114)	(238)				
To 180°	<u>7/8"</u>	<u>6-1/4"</u>	180°	70°–180°	180°–75°	23"
H.O. 125°	(22)	(159)				
(ABP) Advar	nced Backch	eck Position				
		Soffit Plate				
To 100°	<u>4-3/4"</u>	<u>9-7/8"</u>	100°	45°-100°	100°-70°	28"
H O 90°	(121)	(251)				

# HEAVY-DUTY PARALLEL ARM DOOR SAVER $\times$ CUSHION $\times$ FLUSH TRANSOM BRACKET

8916 DS/DST/DSK FTHD 8956 DS/DST/DSK FTHD



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

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

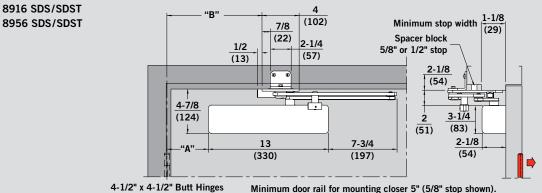
(Left Hand)	ł

Size Selection Chart									
	Door Width								
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"		
	Exterior	min.	max.	max.	max.	max.	max.		
8916	Interior	•	•	ę.	Ġ.	ę.	N/A		
	Exterior	•	•	•	•	N/A	N/A		
8956	Interior	N/A	N/A	N/A	•	•	•		
	Exterior	N/A	N/A	•	•	•	N/A		

Template Ref.	Dim "A" Closer	Dim "B" (FT102)	*Cushion/ Hold Open	Approximate Backcheck	Approximate Delayed	Min. Door
		Bracket			Action	Width
85°	<u>4-3/8"</u> (111)	<u>10-5/8"</u> (270)	85°	50°-85°	85°-60°	26"
90°	<u>3-1/2"</u> (89)	<u>9-3/4"</u> (248)	90°	55°–90°	90°-60°	25"
100°	<u>2-3/8"</u> (60)	<u>8-5/8"</u> (219)	100°	60°-100°	100°-65°	24"
110°	<u>1-1/4"</u> (32)	<u>7-1/2"</u> (191)	110°	65°-110°	110°-70°	23"

\* Hold open is approximately  $1^{\circ}-2^{\circ}$  less than the cushion angle listed in the chart.

### HEAVY-DUTY PARALLEL ARM $\times$ SPRING DOOR SAVER



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

(Left Hand)

4'-0" 4'-6"

max.

N/A

N/A

N/A

•

max.

ę.

N/A

•

•

Size Selection Chart

Interior/ Exterior

Interior

Exterior

Interior

Exterior

Closer

8916

8956

Template Ref.	Dim "A" Closer	Dim "B" Soffit Plate	*Dead Stop/ Hold Open	Approximate Backcheck	Approximate Delayed Action	Min. Door Width
85°	<u>4-3/8"</u> (111)	<u>10-5/8"</u> (270)	85°	50°–85°	85°–60°	26"
90°	<u>3-1/2"</u> (89)	<u>9-7/8"</u> (251)	90°	55°–90°	90°-60°	25"
100°	<u>2-3/8"</u> (60)	<u>8-5/8"</u> (219)	100°	60°-100°	100°-65°	24"
110°	<u>1-1/4"</u> (32)	<u>7-1/2"</u> (191)	110°	65°–110°	110°-70°	23"

 $^{\ast}$  Hold open is approximately 5°–7° less than the dead stop angle listed in the chart.

# TRACK - PULL SIDE DOOR MOUNTED

Door Width

3'-0" 3'-6"

max.

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max.

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N/A •

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2'-0" 2'-6"

max.

•

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N/A

N/A •

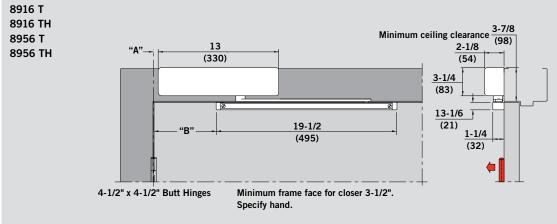
min.

•

•

N/A

N/A



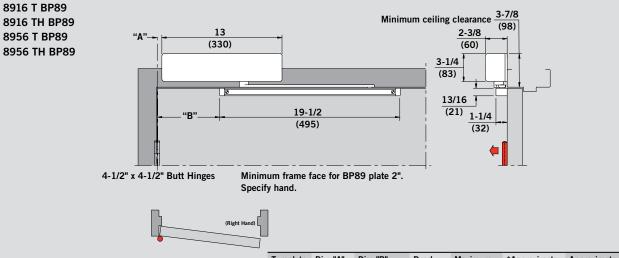


Size Selection Chart									
	Door Width								
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"			
	Exterior	min.	max.	max.	max.	max.			
8916	Interior	•	•	Ġ.	ę.	N/A			
	Exterior	•	•	•	N/A	N/A			
8956	Interior	N/A	N/A	•	•	•			
	Exterior	N/A	•	•	•	N/A			

Template Ref.	Dim "A"	Dim "B"	Cushion	Maximum Hold Open	*Approximate Backcheck	Approximate Delayed Action	Min. Door Width
85°	<u>1/2"</u> (13)	<u>9-3/4"</u> (248)	85°	80°	70°–85°	85°–60°	31"
90°	<u>1/2"</u> (13)	( <u>9"</u> (229)	90°	85°	70°–90°	90°–60°	30"
110°	<u>1/2"</u> (13)	<u>6-1/4"</u> (159)	110°	105°	70°-110°	110°-60°	27"
180°	<u>3/4"</u> (19)	<u>4"</u> (102)	180°	160°	75°–180°	180°–65°	25"

\*Backcheck positioning valve preset to on, advancing backcheck to approximately 15°.

# TRACK - PULL SIDE DOOR MOUNTED × BACKPLATE

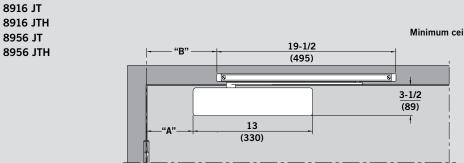


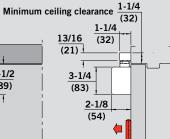
Size Selection Chart									
	Door Width								
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"			
	Exterior	min.	max.	max.	max.	max.			
8916	Interior	•	•	ę.	ę.	N/A			
	Exterior	•	•	•	N/A	N/A			
8956	Interior	N/A	N/A	•	•	•			
	Exterior	N/A	•	•	•	N/A			

Template Ref.	Dim "A"	Dim "B"	Dead Stop	Maximum Hold Open	*Approximate Backcheck	Approximate Delayed Action	Min. Door Width
85°	<u>1/2"</u> (13)	<u>9-3/4"</u> (248)	85°	80°	70°–85°	85°-60°	31"
90°	<u>1/2"</u> (13)	<u>9"</u> (229)	90°	85°	70°–90°	90°-60°	30"
110°	<u>1/2"</u> (13)	<u>6-1/4"</u> (159)	110°	105°	70°-110°	110°-60°	27"
180°	<u>3/4"</u> (19)	<u>4"</u> (102)	180°	160°	75°–180°	180°–65°	25"

\*Backcheck positioning valve preset to on, advancing backcheck to approximately  $15^\circ\!.$ 

# JAMB TRACK - PULL SIDE FRAME MOUNTED





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

Minimum frame face for mounting track 1-1/4". Minimum door rail for mounting closer 3". Minimum door rail to bottom of cover 3-3/8".



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4'-0"

max.

N/A

N/A

N/A

•

Template Ref.	Dim "A" Closer	Dim "B" Soffit Plate	Cushion	Maximum Hold Open	*Approximate Backcheck	Approximate Delayed Action	Min. Door Width
85°	<u>3-1/2"</u> (89)	<u>9-3/4"</u> (248)	85°	80°	75°–85°	85°–65°	31"
90°	<u>3-1/2"</u> (89)	<u>9"</u> (229)	90°	85°	75°–90°	90°–65°	30"
110°	<u>3-1/2"</u> (89)	( <u>178</u> )	110°	100°	75°–110°	110°-65°	28"
175°	<u>3-1/2"</u> (89)	4" (102)	178°	145°	75°–180°	178°–65°	25"

\*Backcheck positioning valve preset to on, advancing backcheck to approximately 15°.

N/A

N/A

N/A •

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•

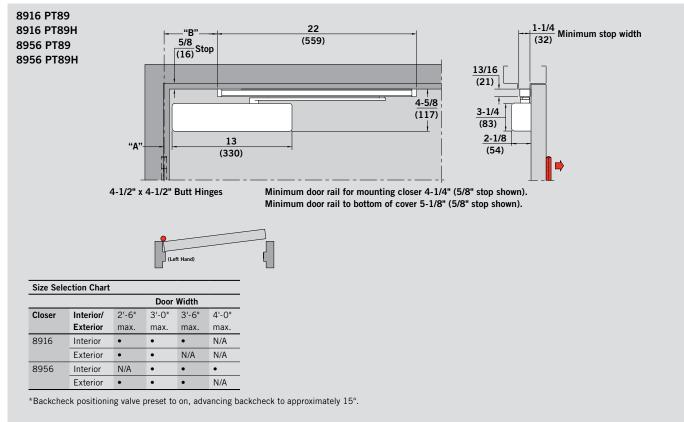
Size Selection Chart

Interior

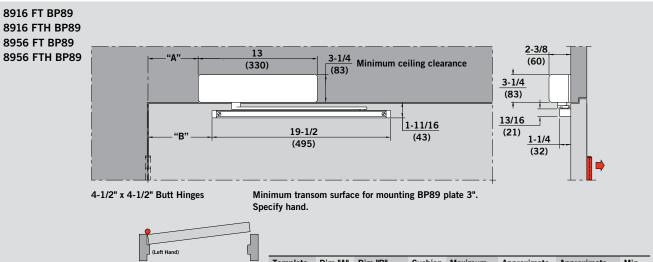
Exterior

8956

### PUSH TRACK - PUSH SIDE SOFFIT MOUNTED



# FLUSH TRACK - PUSH SIDE DOOR MOUNTED $\times$ BACKPLATE

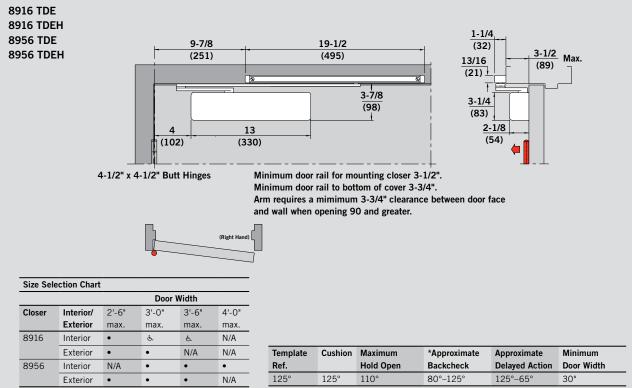


Size Selection Chart								
	Door Width							
Closer	Interior/	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"		
	Exterior	min.	max.	max.	max.	max.		
8916	Interior	•	•	ę.	ę.	N/A		
	Exterior	•	•	•	N/A	N/A		
8956	Interior	N/A	N/A	•	•	•		
	Exterior	N/A	•	•	•	N/A		

Template Ref.	Dim "A"	Dim "B"	Cushion	Maximum Hold Open	Approximate Backcheck	Approximate Delayed Action	Min. Door Width
85°	<u>5-1/2"</u> (140)	<del>7"</del> (178)	85°	80°	70°-85°	80°-65°	29"
90°	<u>5-1/2"</u> (140)	<u>6-1/8"</u> (156)	90°	85°	70°–90°	90°–60°	28"
110°	<u>4-1/2"</u> (114)	<u>4-3/4"</u> (121)	110°	105°	75°–110°	110°-65°	26"
135°	<u>3-1/2"</u> (89)	<u>3-3/4"</u> (95)	135°	125°	85°–135°	135°–70°	25"

\*Backcheck positioning valve preset to on, advancing backcheck to approximately 15°.

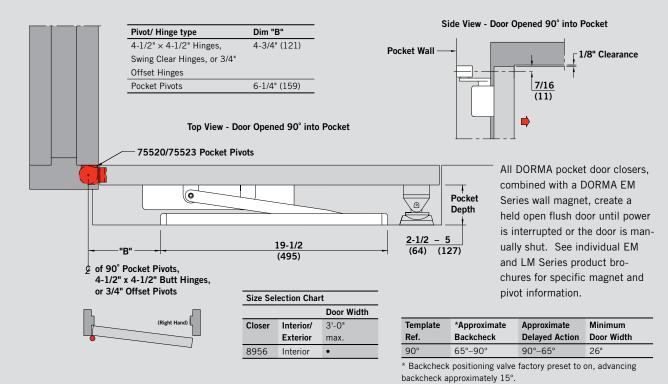
# TRACK DOUBLE EGRESS - PULL SIDE FRAME MOUNTED



\* Backcheck positioning valve factory preset to on, advancing backcheck approximately 15°.

# 90° POCKET DOOR (TRACK ARM)

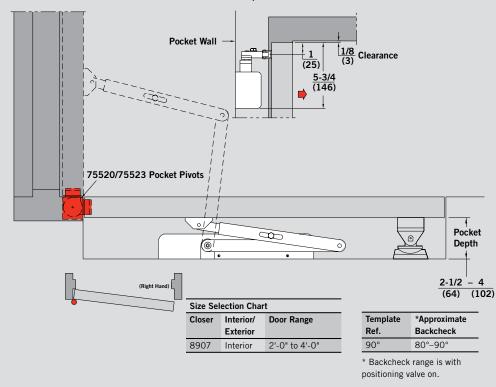
### 8956 T PKT 90



## 90° POCKET DOOR (DOUBLE-LEVER ARM)

### 8907 AF PKT 90

Side View - Door Opened 90° into Pocket



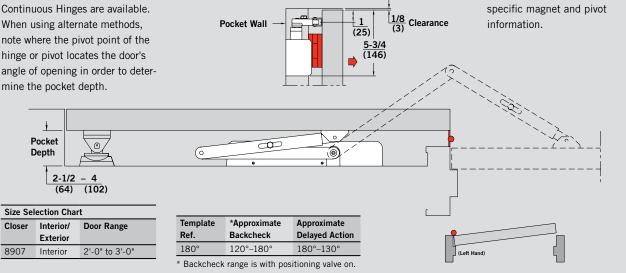
All DORMA pocket door closers, combined with a DORMA EM Series wall magnet, create a held open flush door until power is interrupted or the door is manually shut. See EM and LM Series product brochures for specific magnet and pivot information.

The recommended method for hanging a 90° pocket door is via the use of pocket pivots, which create optimum unobstructed space while creating a flush appearance with the door in line with the frame. Alternate methods using 3/4" Offset Pivots, Swing Clear Hinges, or Continuous Hinges are available. When using alternate methods, note where the pivot point of the hinge or pivot locates the door's angle of opening in order to determine the pocket depth.

# 180° POCKET DOOR (DOUBLE-LEVER ARM)

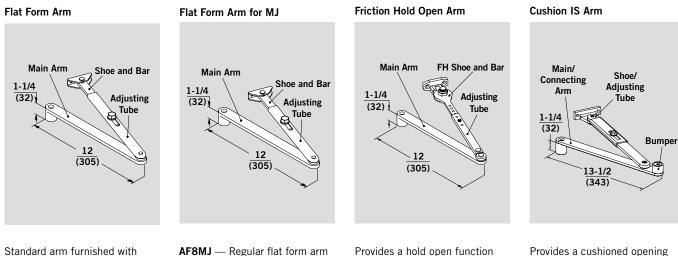
### 8907 AF PKT 180

The recommended method for hanging the door is via the use of butt hinges, which create optimum unobstructed space when the door is in the pocket. Alternate methods using 3/4" Offset Pivots, Swing Clear Hinges, or Continuous Hinges are available. When using alternate methods, note where the pivot point of the hinge or pivot locates the door's angle of opening in order to determine the pocket denth All DORMA pocket door closers, combined with a DORMA EM Series wall magnet, create a held open flush door until power is interrupted or the door is manually shut. See individual EM and LM Series product brochures for specific magnet and pivot information.



Side View - Door Opened 180° into Pocket

#### SURFACE APPLIED DOOR CLOSERS ACCESSORIES



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.

**AFM89** — Regular flat form main arm and adjusting tube.

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

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–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.

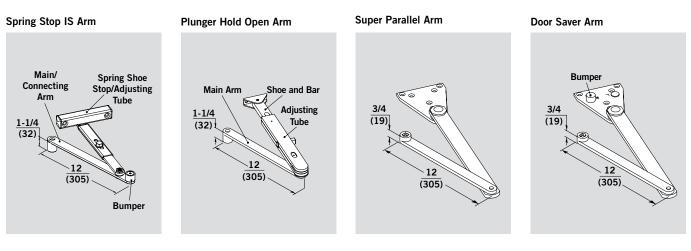
Provides a cushioned opening function for regular and top jamb applications at 85°, 90°, 95°, 100°, 105°, and 110°. Arm is non-handed.

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).



Provides a spring assisted dead stop function for regular and top jamb applications at 85°, 90°, 100°, and 110°. Arm is non-handed. SIS — Spring stop IS arm complete (0"-3-1/2" [0 mm-89 mm] reveal). SISH — Spring stop IS hold open arm complete (0"-3-1/2" [0 mm-89 mm] reveal). SISJ — Spring stop IS top jamb arm complete (3-1/2"-6-1/2" [89 mm-165 mm] reveal). SISJH — Spring stop IS top jamb hold open arm complete (3-1/2"-6-1/2" [89 mm-165 mm] reveal).

Provides a hold open function at a selected point within a range from approximately 30° to 130° (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** — Super parallel arm nonhold open.

**SPAT** — Super parallel arm thumb turn hold open.

**SPAK** — Super parallel arm hex key turn hold open.

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 only.

**DST** — Door saver arm thumb turn hold open.

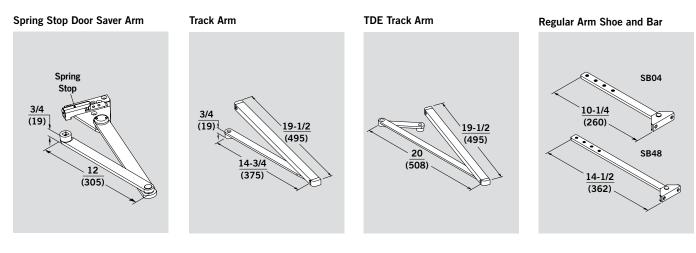
**DSK** — Door saver arm hex key turn hold open.

**BUMPER DS** — Door saver bumper only.

#### **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). 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.

#### SURFACE APPLIED DOOR CLOSERS ACCESSORIES



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.

**SDS** — Spring stop door saver arm.

**SDST** — Spring stop door saver arm thumb turn hold open. **S SPRING DS** — Spring stop assembly compete. 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). 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.

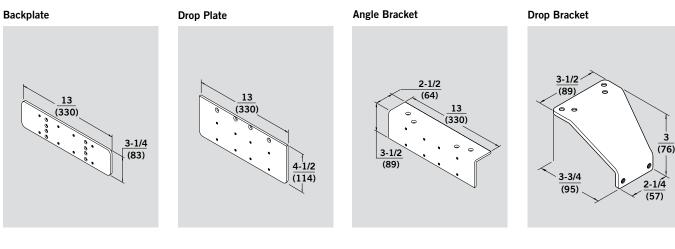
**TDE** — Double egress track arm complete.

**TDEH** — Double egress hold open track arm complete.

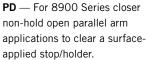
### SB04 — 0"-4" (0 mm-102 mm) reveal - Shoe and bar only. SB48 — 4"-8" (102 mm-203 mm) reveal - Shoe and bar only. SB04 and SB48 must be used

in conjunction with AMF89. Non-handed.

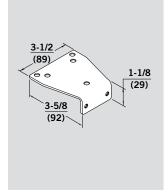
#### 28 DORMA



**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 nonhold 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). **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 surfaceapplied stop/holder.

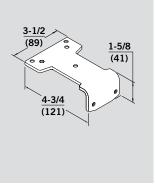


#### Bracket



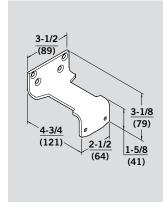
**P89** — Furnished standard with 8900 P Series closer non-hold open and plunger hold open parallel arm applications. Spacer block furnished standard for use with narrow stop applications.

# Parallel Hold Open Bracket



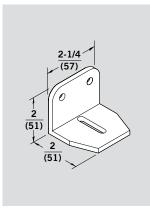
**PHB** — Furnished standard with 8900 FHP Series closer friction hold open parallel arm applications. Spacer block furnished standard for use with narrow stop applications.

#### Parallel Flush Transom Bracket



**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.

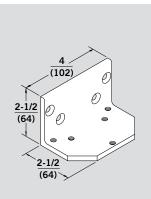
#### Narrow Frame Bracket

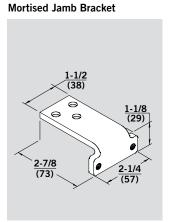


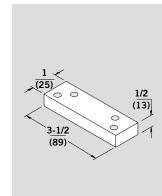
NFHD — For use with all 8900 Series DS and SPA applications where total frame depth is less than 4-1/2" (114 mm), prohibiting use of standard spacer block. NFHD bracket is used in lieu of block supplied with arm.

#### SURFACE APPLIED DOOR CLOSERS ACCESSORIES

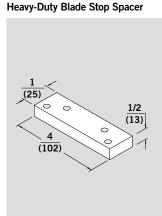
#### Flush Transom Bracket







**Blade Stop Spacer** 



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

**Full Metal Cover** 

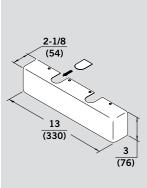
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BS — For use with all 8900 Series P89, PD, and PHB applications installed on cased frames with applied blade stops. This block is used in conjunction with the spacer furnished with the arm to provide adequate clearance for the blade stop.

**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.

#### **Full Plastic Cover**

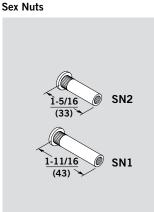


FC — Full plastic cover with interchangeable tab.

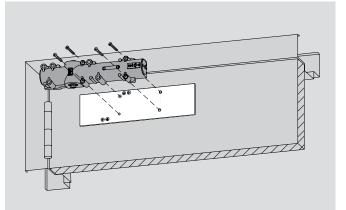
FCSL — Full plastic slotted cover with interchangeable tab. Mounting holes slotted for low ceiling conditions.

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



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.



**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.

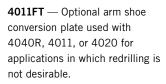
**4011** — Conversion plate utilizes **LCN 4011 Reg. 90°** or **LCN 4011 Reg. 140°** holes for attachment to the door. The frame face will require drilling and tapping two holes for the arm shoe assembly. 4111 — Conversion plate utilizes LCN 4111 PA 90° or LCN 4111 PA 180° holes for attachment to the 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.



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**89/DC220R** — Conversion plate utilizes **Corbin/Russwin DC2200** regular arm mounting holes for attaching the closer body to the door. Arm shoe attaches using the existing C/R mounting holes.

89SPA/DC2210PA — Conversion plate utilizes Corbin/Russwin DC2210 heavy duty parallel arm mount holes for attaching the closer body to the door. The soffit bracket would need new holes prepared in the soffit to utilize the DORMA SPA plate.

**8980R/PA** — Conversion plate utilizes **DORMA TS83** regular or parallel arm template holes to mount the closer to the door. For parallel arm, the parallel bracket can either remain or be replaced with a new P89 standard parallel arm bracket.





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