

4400 Series Door Closer

Models PR4400, PR4410, 4420 and 4420T

Parallel Rigid Arm & Holder Stop, Non-Hold Open or Hold Open

Installation Instructions

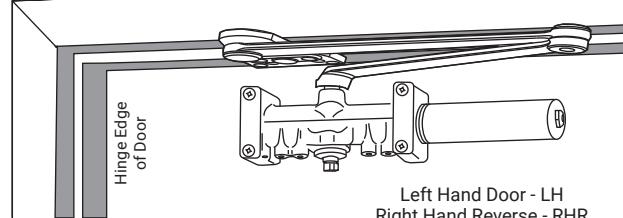
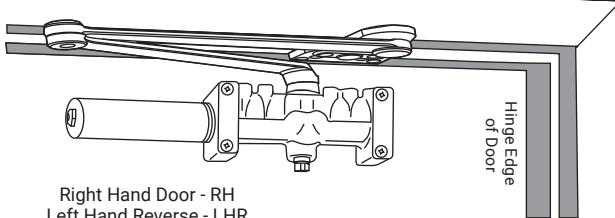
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Standard Frame

Closer mounts on opposite of hinge (push) side of door.
PR4400 Parallel Rigid Non-Hold Open Arm illustrated.

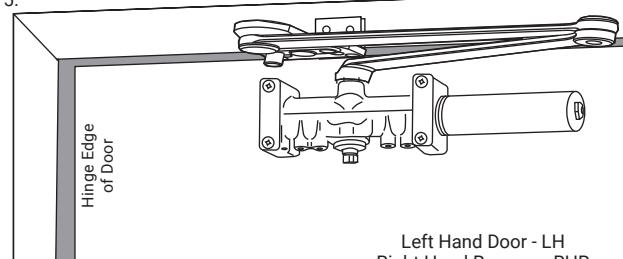
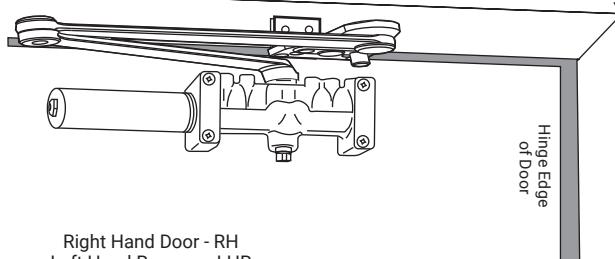
See pages 4 and 5.



Narrow Frame

Closer mounts on opposite of hinge (push) side of door. 4420 Holder Stop arm illustrated.
6890 and 6891 accessories required for this application (supplied separately)

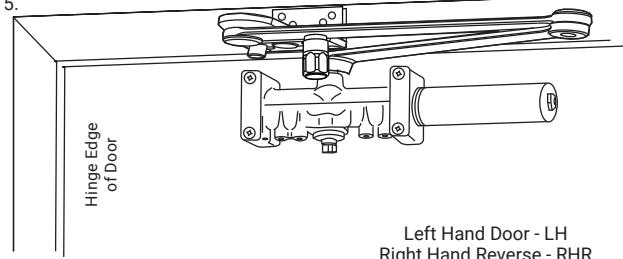
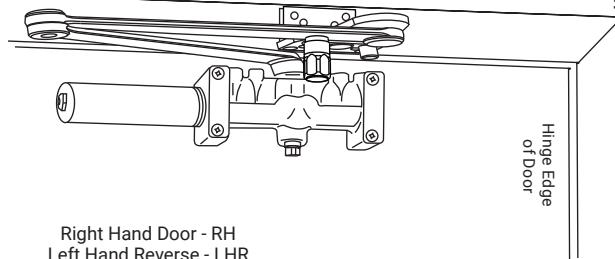
See pages 4 and 5.



Flush Partition

Closer mounts on opposite to hinge (push) side of door. 4420T Holder Stop arm with Thumturn Hold Open illustrated.
2019L accessory required for this application (supplied separately).

See pages 4 and 5.



NOTE: For special applications, a separate door and frame preparation template is packed with these instructions. Use this instruction sheet for installation sequence and closer adjustments only.

Additional Closer Options:

- “DL” indicates Delayed Closer Action.
- “T” indicates Thumturn actuated Hold Open control.
- Hold Open function components are handed.

Optional Accessories:

- 488 Drop Plate
- 293L, 890, and 891 Soffit Plate Accessories

⚠ WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

⚠ WARNING

Attention Installer: Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and ASSA ABLOY makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire-rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

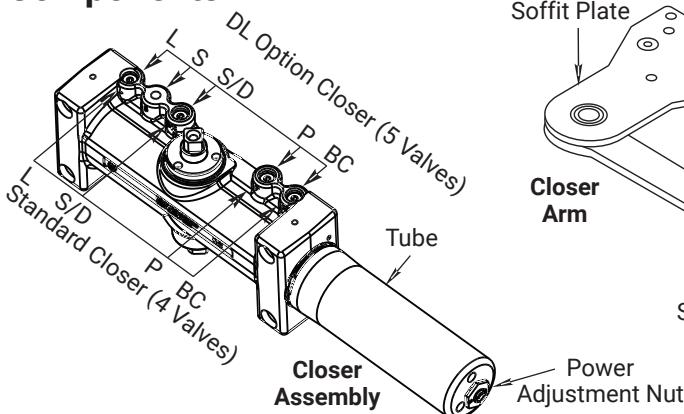
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Components

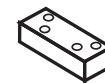


293S Block (provided)



Optional Accessories

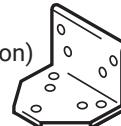
891 Spacer (For Blade Stop)



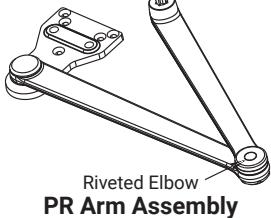
890 Bracket (For Narrow Frame or Blade Stop)



293L Bracket (For Flush Partition)



Arm Options

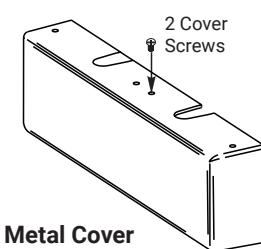
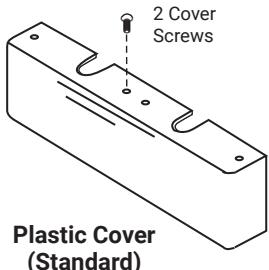


Holder Stop Arm Assembly
Stop Only

PR Hold Open Arm Assembly

Holder Stop Arm Assembly
with Thumturn

Cover Options



Preparation for Fasteners

	Fasteners	Door or Frame	Drill-Sizes
Standard	Self-Drilling Screw	Aluminum or Metal	No Drill Required
		Wood (see Note)	3/16" (4.30mm); pilot hole required
	1/4"-20 Machine Screw	Metal	Drill: #7 (0.201" dia) Tap: 1/4"-20
Optional	Sleeve nuts and bolts	Hollow Metal	9/32" (7mm) through; 3/8" (9.5mm) door face opposite of closer
		Aluminum or Wood	3/8" (9.5mm) through
	Through-bolts and grommet-nuts	All	9/32" (7mm); 3/8" (9.5mm) dia. x 3/8" (9.5mm) deep on door face opposite of closer

NOTE: Pilot hole must be drilled when using self-drilling screws on wood doors and frames.

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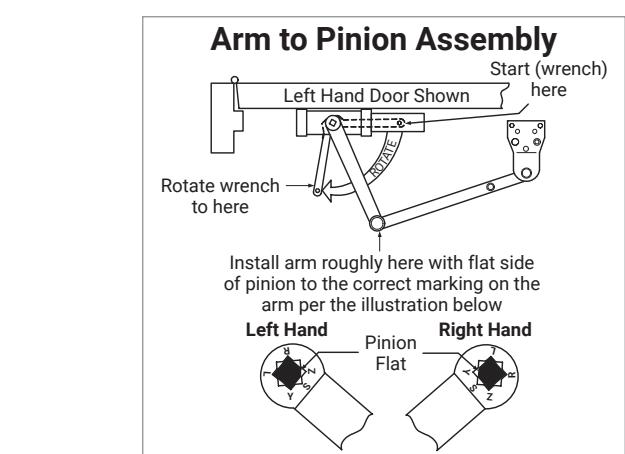
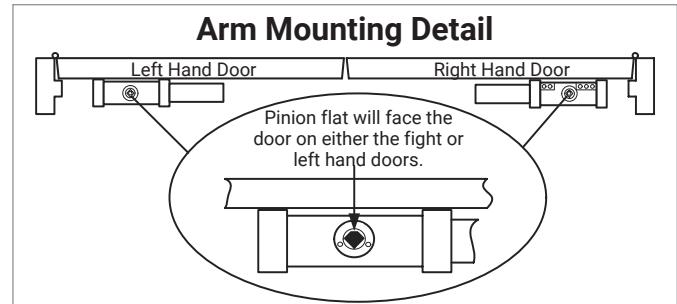
Installation Sequence

- Select angle of opening and locate the mounting holes.** Using the Installation dimension chart below and the dimensions shown on the templates (page 4 for standard closer installation, page 5 for closer installation with a 488 drop plate, if required), locate the four (4) holes on door for closer body and the five (5) holes on stop/rabbet for Soffit Plate or four (4) holes on frame transom for 293L bracket, (if required). For applications not covered in these instructions, a separate template will be required.
- Prepare Holes for Fasteners.** Refer to the Preparation for Fasteners chart.
- Mount Closer to Door.** Mount 488 drop plate if required. Install closer with power adjustment nut toward lock edge of door.
 - Valves DOWN for Left Hand door.
 - Valves UP for Right Hand door.
- Set closer power.** Using the Power Adjustment Chart, select closer power according to door size. Use an 11/16" wrench supplied to adjust Power Adjustment Nut, 15 turns maximum. Turn nut **CLOCKWISE** to **INCREASE**, **COUNTER-CLOCKWISE** to **DECREASE** power. See page 6 for the illustration of this step.
- Install Main Arm.** Close valves.
 - For Standard Closer - Close valves 'S/D' and 'L'
 - For 'DL' Optional Closer - Close valves 'S' and 'L'.
 then turn pinion shaft more than 50° to permit proper alignment of arm mark with pinion flat:
 - 'Z' for Left Hand Door
 - 'Y' for Right Hand Door
 See Arm Mounting Detail instructions below.
- Reopen valves closed in previous step.**
- With door closed**, align soffit plate with holes in frame and fasten to frame with screws. Use 293S and/or 891 spacer blocks or 890 reinforcing bracket as required.
- Adjust Closer.** Make adjustments to closer before installing cover. Refer to Adjustments on page 6.
- Install cover.**

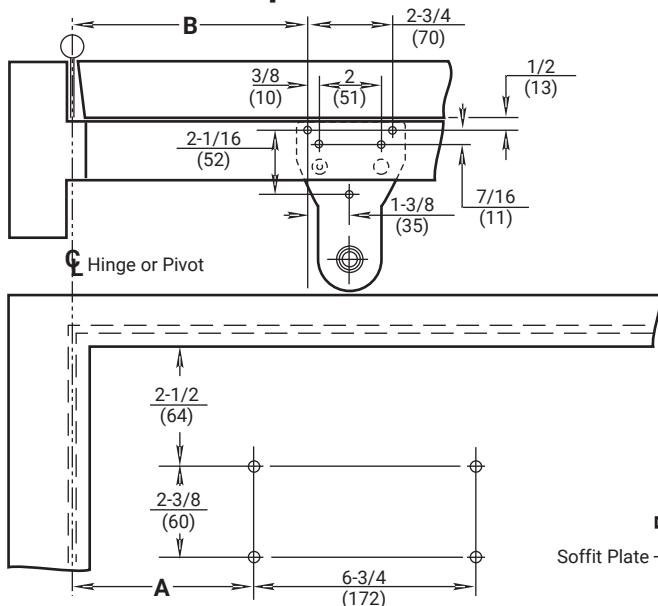
Power Adjustment Chart		
Maximum Interior Door Size	Maximum Exterior Door Size	Number of Full Clockwise Turns Required
32" (81cm)	28" (71cm)	5
36" (91cm)	34" (86cm)	8-1/2
42" (107cm)	38" (96cm)	11
52" (132cm)	42" (107cm)	13-1/2
60" (152cm)	48" (122cm)	16-1/2

NOTE: Maximum of 16-1/2 turns (360°) of Power Adjustment Nut. Closer is shipped set at 8 turns from the factory.

Installation Dimension Chart											
	Dim	Up to 90°	91° to 95°	96° to 100°	101° to 105°	106° to 110°	111° to 115°	116° to 130°	131° to 150°	151° to 180°	
PR4400/ PR4410	A inches (mm)	8-3/4 (222)			7-1/4 (184)			6-1/4 (159)	5-1/4 (133)		
	B inches (mm)	9-1/4 (235)			7-3/4 (197)			6-3/4 (171)	5-3/4 (146)		
	C inches (mm)	9-3/8 (238)			7-7/8 (200)			6-7/8 (175)	5-7/8 (149)		
4420/ 4420T	A inches (mm)	10-1/8 (257)	9-1/4 (235)	8-5/8 (219)	7-7/8 (200)	7-3/8 (187)	6-3/4 (171)				
	B inches (mm)	10-5/8 (270)	9-3/4 (248)	9-1/8 (232)	8-3/8 (213)	7-7/8 (200)	7-1/4 (184)				
	C inches (mm)	10-3/4 (273)	9-7/8 (251)	9-1/4 (235)	8-1/2 (216)	8 (203)	7-3/8 (187)				



Installation Templates

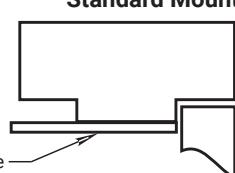


Standard Frame

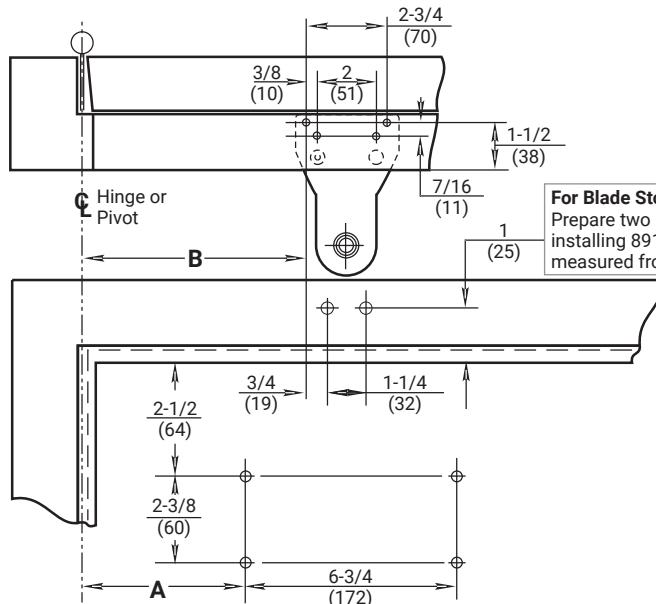
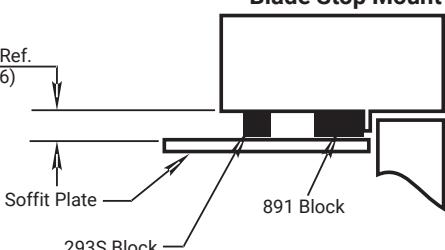
NOTES:

- Do Not Scale Drawing
- Left hand door shown
- Dimensions are in inches (mm)
- Same dimensions apply for Right Hand
- Door measured from centerline of pivot point.
- Refer to the "Installation Dimension Chart" on page 3 for A, B, & C dimension values.
- If using the 488 drop plate to mount the closer, refer to page 5 for mounting information.

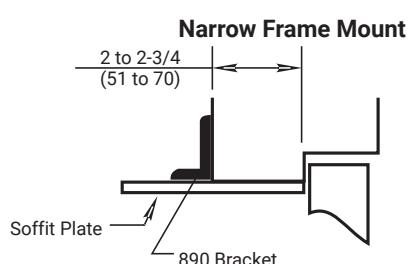
Standard Mount



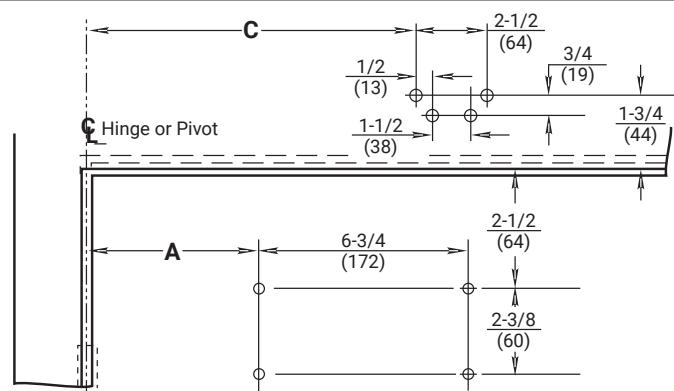
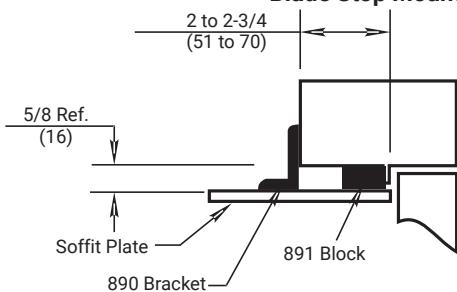
Blade Stop Mount



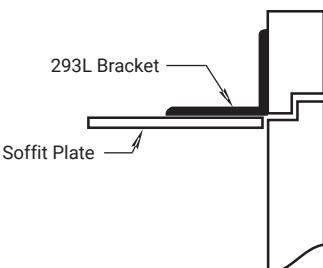
Narrow Frame



Blade Stop Mount



Flush Partition

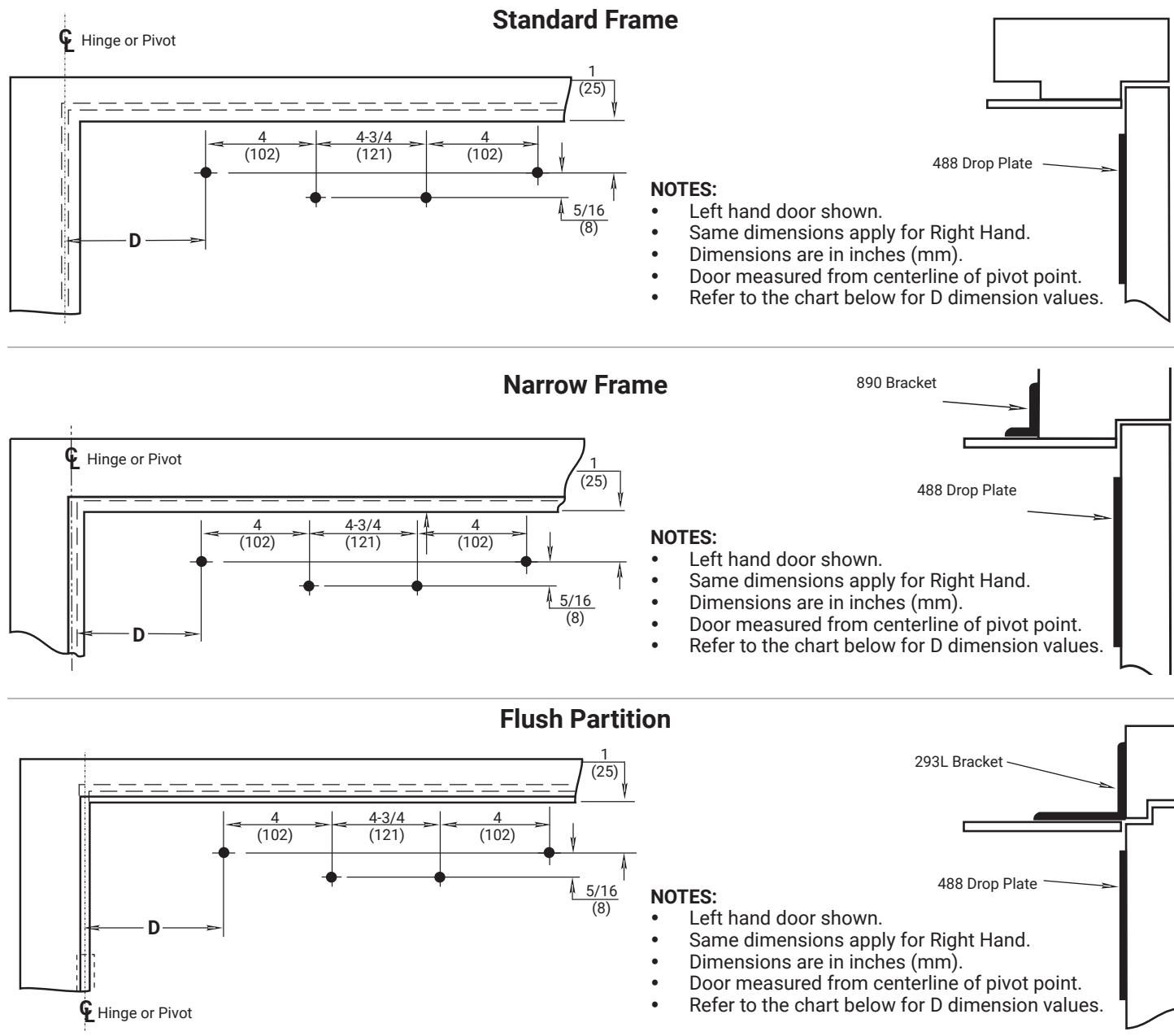


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Installation Templates with 488 Drop Plate



Installation Dimension Chart-488 Drop Plate											
	Dim		Up to 90°	91° to 95°	96° to 100°	101° to 105°	106° to 110°	111° to 115°	116° to 130°	131° to 150°	151° to 180°
PR4400/ PR4410	D	inches (mm)	8-1/2 (216)			7 (178)			6 (152)		5 (127)
4420/ 4420T	D	inches (mm)	9-7/8 (251)	9 (229)	8-3/8 (213)	7-5/8 (194)	7-1/8 (181)	6-1/2 (165)			

Adjustments

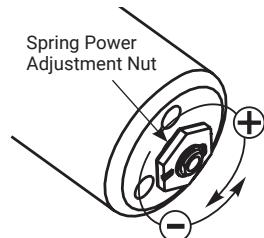
Closing Power Control

To adjust closer power, install closer per instructions with proper pre-load applied to arm then adjust spring power. Refer to the Power Adjustment Chart on page 3 for power settings.

Use the 11/16" wrench to turn power adjustment nut:

- Clockwise to increase power
- Counter-clockwise to decrease power

NOTE: Power adjustment will not work properly if closer spring is not pre-loaded.



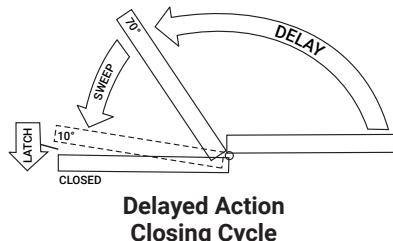
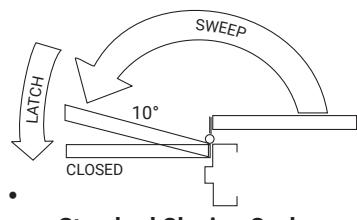
Closing Speed Control

Standard Closer Only

- Valve "L" controls door speed in Latch range.
- Valve "S/D" controls door speed in Sweep range.

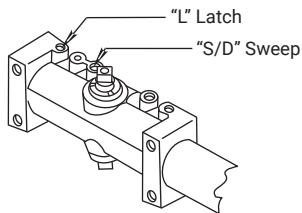
Delayed Action Closer Only

- Valve "L" controls door speed in Latch range.
- Valve "S" controls door speed in Sweep range.
- Valve "S/D" controls door speed in Delay range.

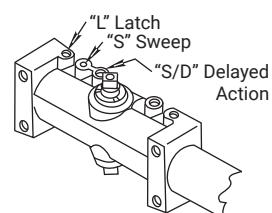


Standard Closing Cycle

ATTENTION: Adjust closing speed time to between 3 and 7 seconds from 90°. Use of the door by handicapped, elderly, or small children may require a greater closing time



Standard Closer



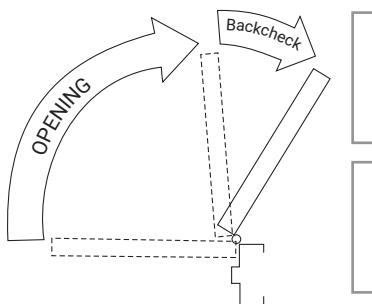
Delayed Action Closer

Do not force valves counter-clockwise out of closer body or a fluid leak will occur.



Opening Door Controls

- Backcheck ("B") valve controls the hydraulic resistance to door opening. NEVER close this valve completely – it is not to provide a positive stop.
- Backcheck Position ("P") valve controls the door angle where backcheck cushioning starts. Valve normally closed.



CAUTION:
Do not back valves out of closer or a leak will result.

NEVER CLOSE VALVE COMPLETELY:
Not intended to provide a positive stop.

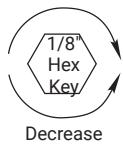
Backcheck Position ("P" Valve)

Open for backcheck later in door-opening cycle

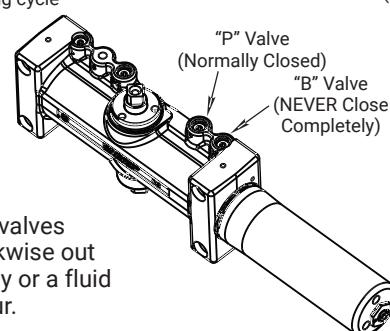


Backcheck Cushion ("B" Valve)

Increase

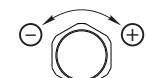


Do not force valves counter-clockwise out of closer body or a fluid leak will occur.



Thumbturn Hold Open Feature

The Thumbturn Hold Open feature is controlled by the knob located on the arm of the unit. Turning this knob clockwise will engage the Hold Open mechanism and increase the Hold Open force. Turning this knob counterclockwise will reduce the Hold Open force and disengage the Hold Open mechanism.



Thumbturn Action
(Units suffixed "T")

Friction Hold-Open Feature

Hold door open to opening angle desired and tighten holder-adjustment-nut (wrench supplied) or use 1" Box or Open End wrench.

