

4400 Series Door Closer

Models 4480, TJ4480, and PA4480

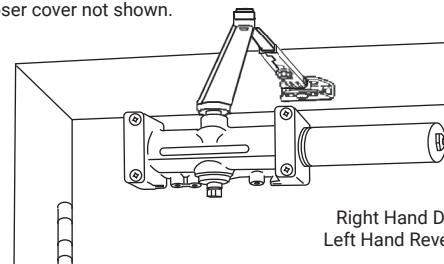
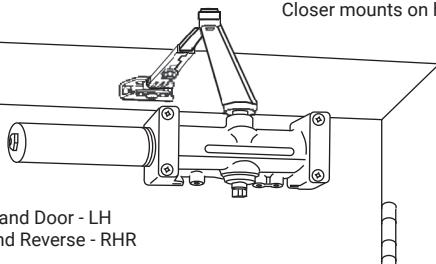
Low Profile, Regular Arm, Top Jamb, or Parallel Arm, Non-Hold Open
Installation Instructions

ACCENTRA

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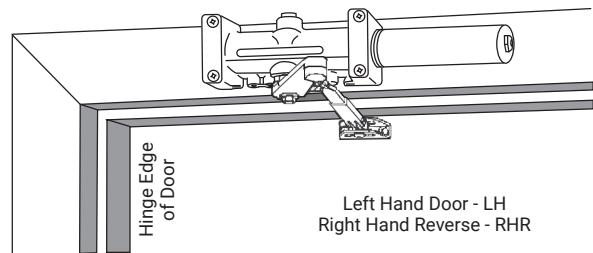
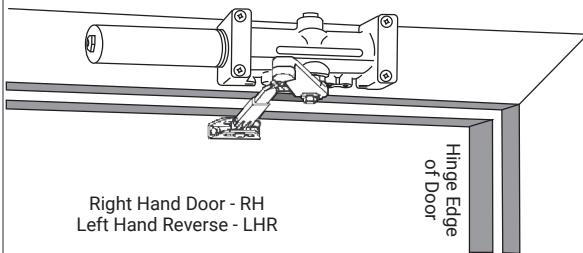
Regular Arm

Closer mounts on hinge (pull) side of the door. Closer cover not shown.
See page 3.



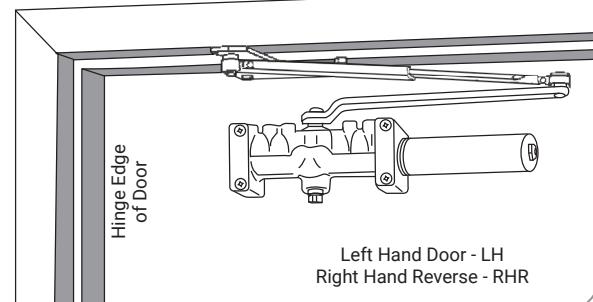
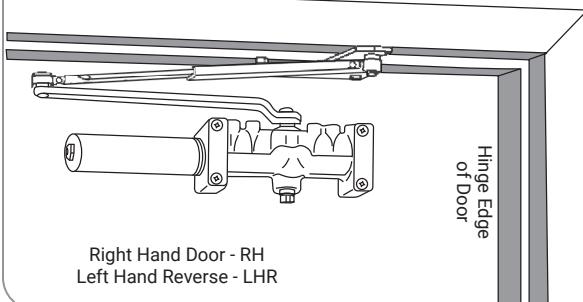
Top Jamb Mount

Closer mounts on frame face on opposite to hinge (push) side of the door. Closer cover not shown.
See page 4.



Parallel Arm

Closer mounts on opposite to hinge (push) side of the door. Closer cover not shown.
See page 5.



NOTES:

- 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.
- This document applies to models with or without the "DL" (Delayed Action) or "M" (Metal Cover) suffix.

⚠ 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

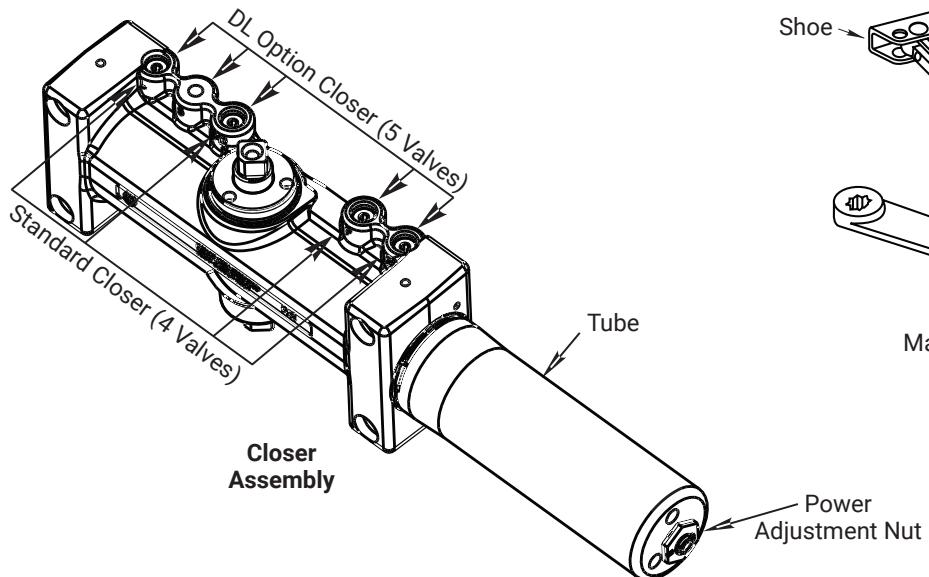
Attention Installer: Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and ASSA ABLOY makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing 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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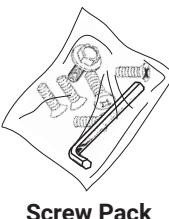
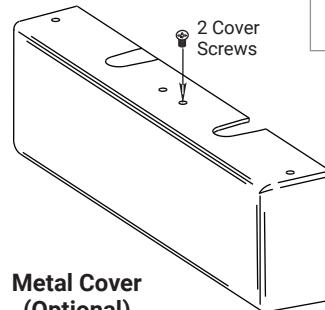
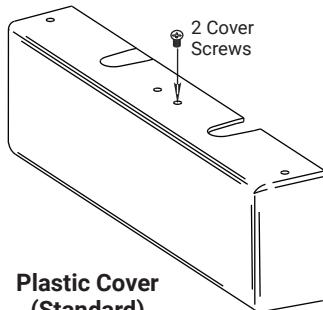
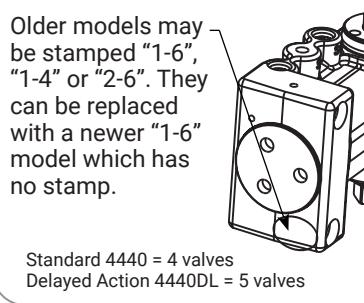
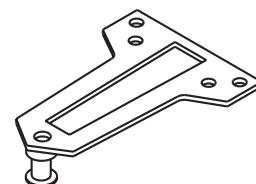
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80-9344-1203-010 Rev 3 05/24

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Components



For Parallel Arm Only



ATTENTION:

- It is recommended that the door, on which the door closer will be installed, be hung on ball bearing hinges. Door must swing freely.
- A separate door stop, supplied by others, is recommended to prevent damage to the door closer, closer arm, or to the door, frame or adjacent walls.
- Door and Frame must be properly reinforced, or use of special fasteners employed, to prevent the mounting screws from pulling out.
- All dimensions are given in inches with corresponding metric dimensions (millimeters) in parentheses.
- Door closer should never be installed on the exterior of a building.

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)	
Optional	1/4"-20 Machine Screw	Metal	Drill: #7 (0.201" dia) Tap: 1/4"-20	
		Hollow Metal	9/32" (7mm) through; 3/8" (9.5mm) door face opposite of closer	
	Sleeve nuts and bolts	Aluminum or Wood	3/8" (9.5mm) through	
		All	9/32" (7mm); 3/8" (9.5mm) dia. x 3/8" (9.5mm) deep on door face opposite of closer	
NOTES:				
<ul style="list-style-type: none"> Pilot hole must be drilled when using self-drilling screws on wood doors and frames. Always consult door/frame manufacturer for fastener compatibility with the material of their door/frame. 				

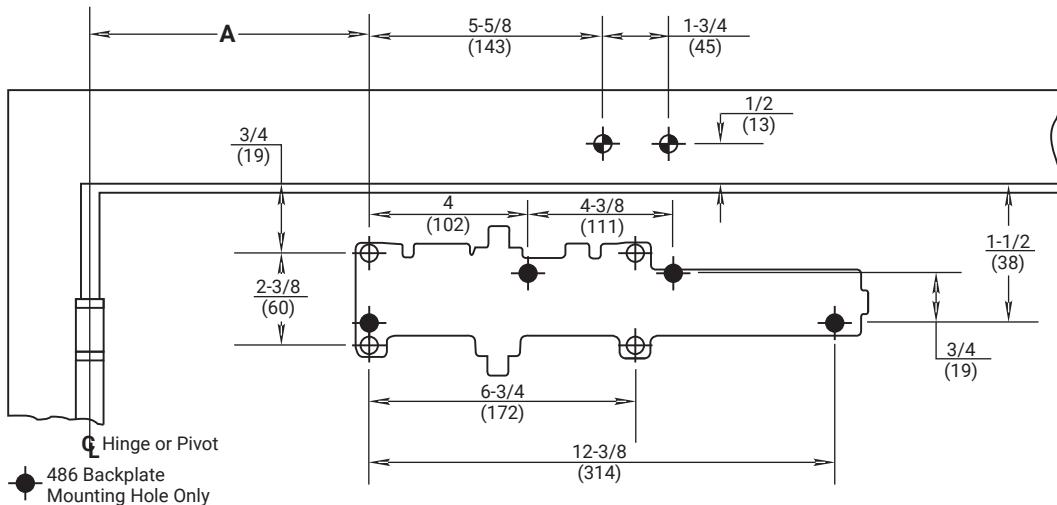
Models 4440, TJ4400, TJL4400 and PA4440

Low Profile, Regular Arm, Top Jamb, or Parallel Arm, Non-Hold Open

ACCENTRA

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Regular Arm Installation (Right Hand Shown)

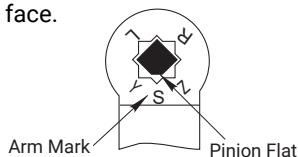


Opening	Dimension A inches (mm)
to 100°	7-5/8 (194)
101° to 120°	6-5/8 (168)
121° to 150°	4-5/8 (117)
151° to 180°	4-1/8 (105)

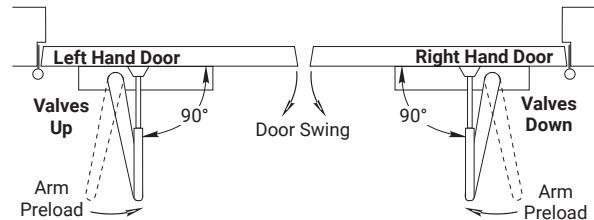
- Do not scale drawing.
- Right Hand door shown.
- Dimensions are given in inches (mm)

Installation Sequence

1. Select angle of opening and use dimensions shown in template and chart to locate 4 holes  on door for closer body (or 4 holes  for optional 486 backplate) and 2 holes  on frame face for arm shoe. For applications that are different from above, a separate template will be supplied for door and frame preparation.
2. Prepare door and frame for fasteners using "Preparation for Fasteners" chart on page 2.
3. Fasten optional 486 backplate to door, only if it is required for the door conditions.
4. Install closer body with tube end away from hinge, with valves: **Down for Left Hand door** and **Up for Right Hand door**.
5. Fasten arm shoe (with adjusting rod) to frame face.
6. Install main arm onto closer pinion shaft, aligning arm mark "S" with the one flat corner of the square shaft "Pinion Flat". Secure with hex washerhead main arm screw.



7. Remove forearm screw from adjusting rod on frame and open door slightly to slide adjusting rod into slide unit. Close door and rotate arm away from hinge until adjusting rod and slide unit are perpendicular (at a 90° angle) to door. Install and tighten forearm screw.



8. Make closer adjustments, if required, using information below and on Page 6, then install closer cover.

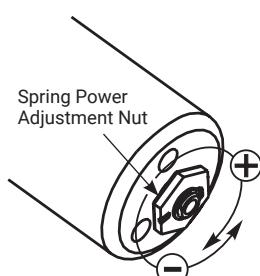
Spring Power Adjustment

Install closer per instructions with the proper pre-load applied to the arm then adjust spring power. The power adjustment will not work properly if the closer spring is not pre-loaded.

To increase power, use 11/16" wrench to turn power adjustment nut clockwise.

To decrease power, turn nut counter-clockwise.

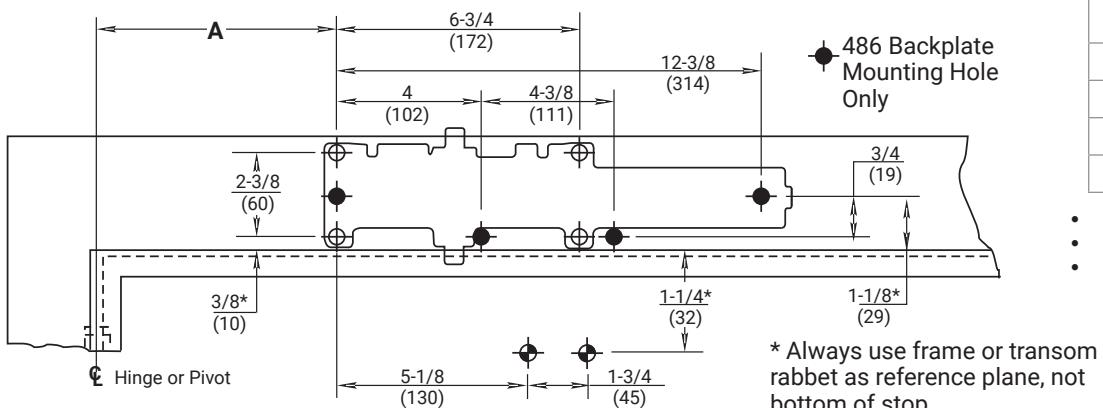
DO NOT use a power drill or driver to turn adjustment nut. This will damage the closer and void the warranty.



Power Adjustment Chart		
Maximum Interior Door Size (mm)	Maximum Exterior Door Size (mm)	Turns from Zero
32 (813)	28 (711)	5
36 (914)	34 (864)	8-1/2
42 (1067)	38 (965)	11
52 (1321)	42 (1067)	13-1/2
60 (1524)	48 (1219)	16-1/2

NOTE: Maximum of 16-1/2 turns (360°) of Power Adjustment Nut.

Top Jamb Mount Installation (Left Hand Shown)

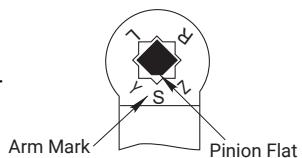


Opening	Dimension A inches (mm)
to 100°	7-5/8 (194)
101° to 120°	6-5/8 (168)
121° to 150°	4-5/8 (117)
151° to 180°	4-1/8 (105)

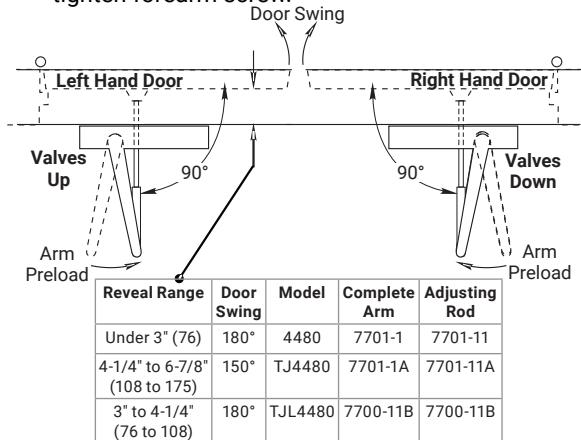
- Do not scale drawing.
- Left Hand door shown.
- Dimensions are given in inches (mm)

Installation Sequence

1. Select angle of opening and use dimensions shown in template and chart to locate 4 holes  on door for closer body (or 4 holes  for optional 486 backplate) and 2 holes  on door for arm shoe. For applications that are different from above, a separate template will be supplied for door and frame preparation.
2. Prepare door and frame for fasteners using "Preparation for Fasteners" chart on page 2.
3. Fasten optional 486 backplate to door, only if it is required for the door conditions.
4. Install closer body with tube end away from hinge, with valves:
Up for Left Hand door
Down for Right Hand door.
5. Fasten arm shoe (with adjusting rod) to door face.
NOTE: A longer adjusting rod or different arm might be required for your frame conditions, see illustration with "Reveal Range" chart to the right.
6. Install main arm onto closer pinion shaft, aligning arm mark "S" with the one flat corner of the square shaft "Pinion Flat". Secure with hex washerhead main arm screw.



7. Remove forearm screw from adjusting rod on door and open door slightly to slide adjusting rod into slide unit. Close door and rotate arm away from hinge until adjusting rod and slide unit are perpendicular (at a 90° angle) to door. Install and tighten forearm screw.



8. Make closer adjustments, if required, using information below and on Page 6, then install closer cover.

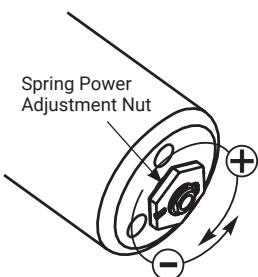
Spring Power Adjustment

Install closer per instructions with the proper pre-load applied to the arm then adjust spring power. The power adjustment will not work properly if the closer spring is not pre-loaded.

To increase power, use 11/16" wrench to turn power adjustment nut clockwise.

To decrease power, turn nut counter-clockwise.

DO NOT use a power drill or driver to turn adjustment nut. This will damage the closer and void the warranty.

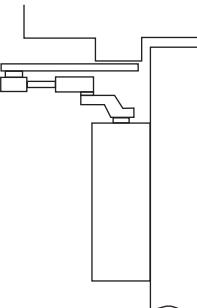
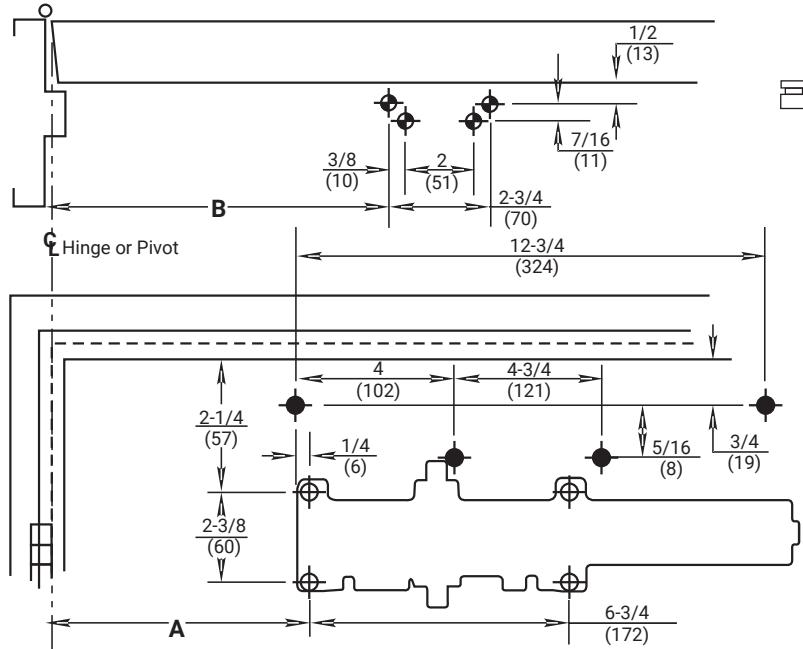


Power Adjustment Chart

Maximum Interior Door Size inches (mm)	Maximum Exterior Door Size inches (mm)	Turns from Zero
32 (813)	28 (711)	5
36 (914)	34 (864)	8-1/2
42 (1067)	38 (965)	11
52 (1321)	42 (1067)	13-1/2
60 (1524)	48 (1219)	16-1/2

NOTE: Maximum of 16-1/2 turns (360°) of Power Adjustment Nut.

Parallel Arm Installation (Right Hand Shown)



Opening	Dimension A inches (mm)	Dimension B inches (mm)
to 100°	8-3/4 (222)	9-1/4 (235)
101° to 130°	7-3/4 (197)	8-1/4 (210)
131° to 150°	6-3/4 (171)	7-1/4 (184)
151° to 180°	5-3/4 (146)	6-1/4 (159)

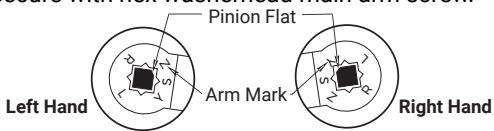
- Do not scale drawing.
- Left Hand door shown.
- Dimensions are given in inches (mm)

488 Backplate
Mounting Hole Only

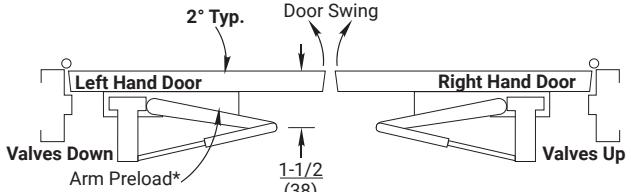
7. Install main arm onto closer pinion shaft using illustration below. The one flat corner of the square shaft "Pinion Flat", must be aligned with the corner mark on arm:

Arm mark "Y" for Right Hand door
Arm mark "Z" for Left Hand door

This requires that the pinion shaft be rotated approximately 50 degrees to get correct alignment. Secure with hex washerhead main arm screw.



8. Remove forearm screw from adjusting rod on frame and open door slightly to slide adjusting rod into slide unit. Close door and pull arm away from door face so elbow is 1-1/2" (38mm) off of door face. Reinstall and tighten forearm screw in rod.



9. Make closer adjustments, if required, using information below and on Page 6, then install closer cover.

Installation Sequence

1. Select angle of opening and use dimensions shown in template and chart to locate 4 holes  on door for closer body (or 4 holes  for optional 488 backplate) and 4 holes  on underside of frame for soffit plate.
- For applications that are different from above, a separate template will be supplied for door and frame preparation.
2. Prepare door and frame for fasteners using "Preparation for Fasteners" chart on page 2.
3. Fasten optional 488 backplate to door, only if it is required for the door conditions.
4. Install closer body with tube end away from hinge, with valves:
Down for Left Hand door
Up for Right Hand door.
5. Fasten soffit plate to frame.
6. Install adjusting rod onto soffit plate and secure with screw and washer assembly from screw pack.

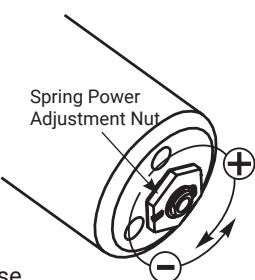
Spring Power Adjustment

Install closer per instructions with the proper pre-load applied to the arm then adjust spring power. The power adjustment will not work properly if the closer spring is not pre-loaded.

To increase power, use 11/16" wrench to turn power adjustment nut clockwise.

To decrease power, turn nut counter-clockwise.

DO NOT use a power drill or driver to turn adjustment nut. This will damage the closer and void the warranty.



Power Adjustment Chart

Maximum Interior Door Size inches (mm)	Maximum Exterior Door Size inches (mm)	Turns from Zero
30 (762)	26 (660)	7
34 (864)	30 (762)	9
38 (965)	36 (914)	12-1/2
48 (1219)	42 (1067)	14-1/2
54 (1372)	48 (1219)	16-1/2

NOTE: Maximum of 16-1/2 turns (360°) of Power Adjustment Nut.

Adjustments

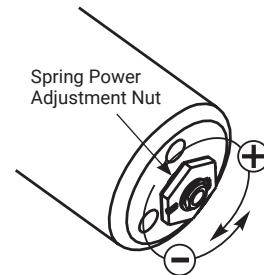
Closing Power Control

To adjust closer power, install closer per instructions with proper pre-load applied to arm then adjust spring power.

To increase power, use 11/16" wrench to turn power adjustment nut clockwise.

To decrease power, turn nut counter-clockwise.

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



Closing Speed Control

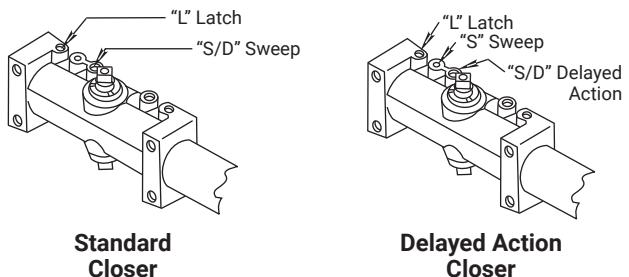
Standard Closer Only

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

Delayed Action Closer Only

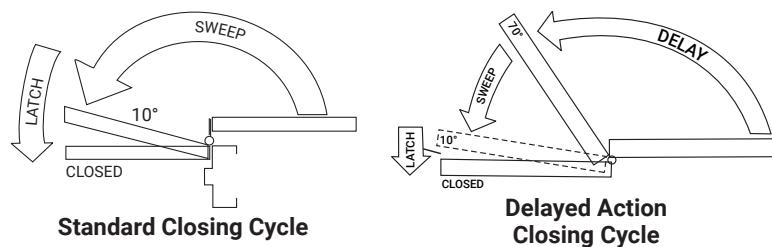
- Valve "L" controls door speed in Latch range.
- Valve "S" controls door speed in Sweep range.
- Valve "S/D" controls door speed in Delay range.

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



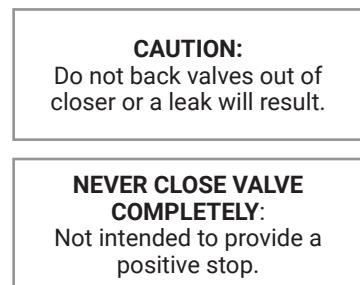
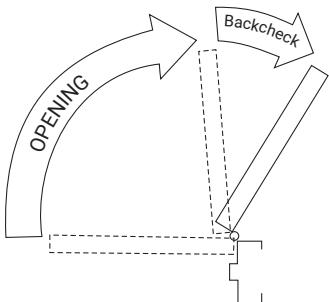
Standard Closer

Delayed Action Closer



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.

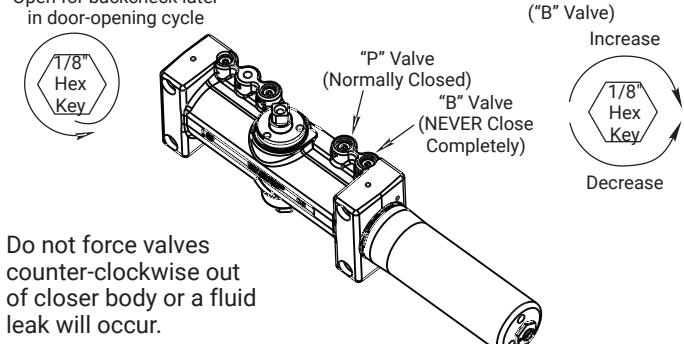


Backcheck Position ("P" Valve)

Open for backcheck later in door-opening cycle



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



Backcheck Cushion ("B" Valve)

Increase



Decrease