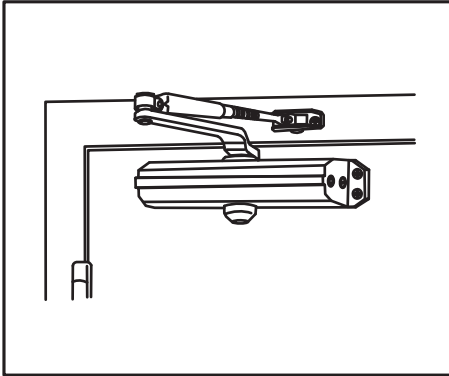
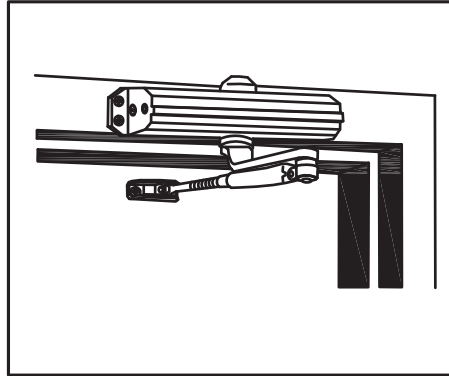


4400/5000 SERIES DOOR CLOSERS INSTALLATION INSTRUCTIONS

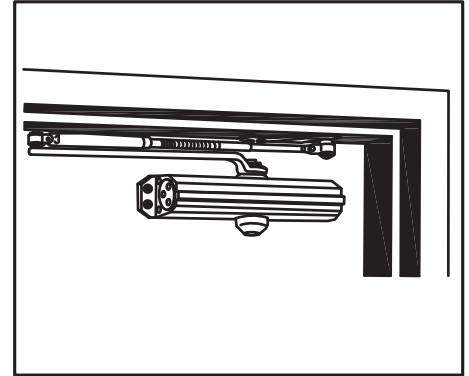
MOUNTING OPTIONS:



Regular Arm(Pull Side)



Top Jamb(Push Side)

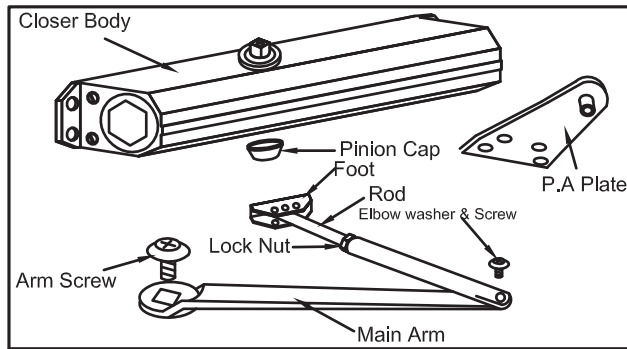


Parallel Arm(Push Side)



PLEASE READ THIS INSTRUCTION CAREFULLY BEFORE INSTALLATION; WE WON'T BE RESPONSIBLE FOR ANY RESULTS WHICH ARE CAUSED BY IMPROPER INSTALLATION.

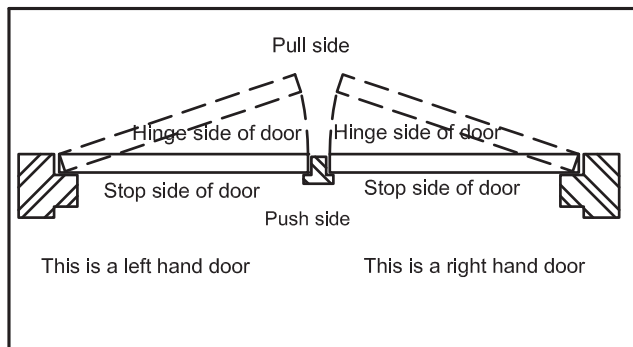
SPARE PARTS OF CLOSERS



Size 1 Thru 4 SETTING AND DOOR WIDTH

Regular & Top Jamb Closers				Parallel Arm Closers			
Maximum Size of Door Width (Factory Preset Size 3)							
Closer Size	Interior	Exterior Inswing	Exterior Outswing	Closer Size	Interior	Exterior Outswing	Full 360° Turns
1	28"	—	—	1	—	—	8 Turns C.C.W
2	36"	—	—	2	30"	—	5 Turns C.C.W
3	42"	30"	36"	3	36"	30"	0 Turns
4	48"	36"	42"	4	42"	36"	6 Turns C.W

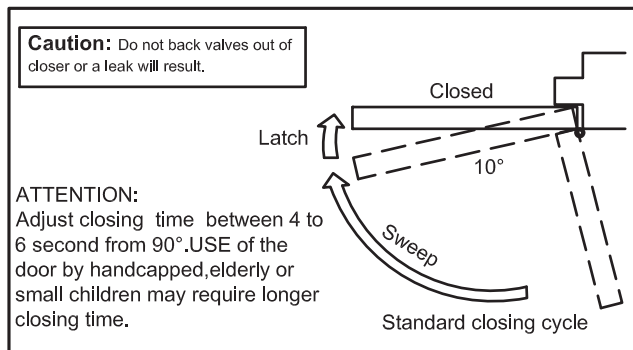
HOW TO TELL HAND OF DOOR.



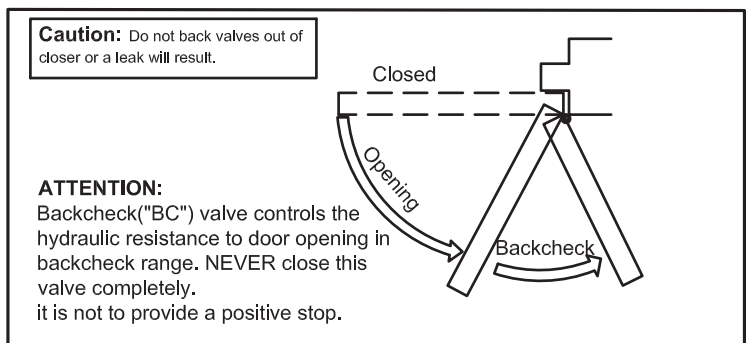
Size 3 Thru 6 SETTING AND DOOR WIDTH

Regular & Top Jamb Closers				Parallel Arm Closers			
Maximum Size of Door Width (Factory Preset Size 4)							
Closer Size	Interior	Exterior Inswing	Exterior Outswing	Closer Size	Interior	Exterior Outswing	Full 360° Turns
3	42"	30"	36"	3	36"	30"	-7 Turns C.C.W
4	48"	36"	42"	4	42"	36"	0 Turn
5	54"	42"	48"	5	48"	42"	4 Turns C.W
6	60"	48"	54"	6	54"	48"	7 Turns C.W

DOOR CLOSING CONTROL

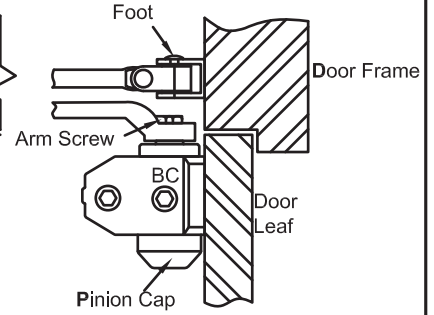
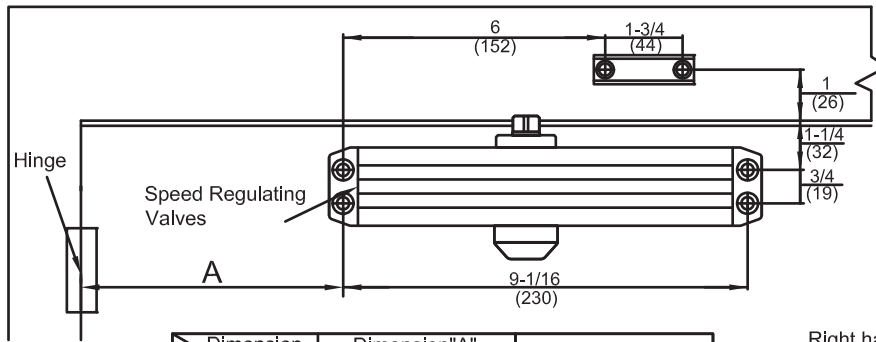


DOOR OPENING CONTROL



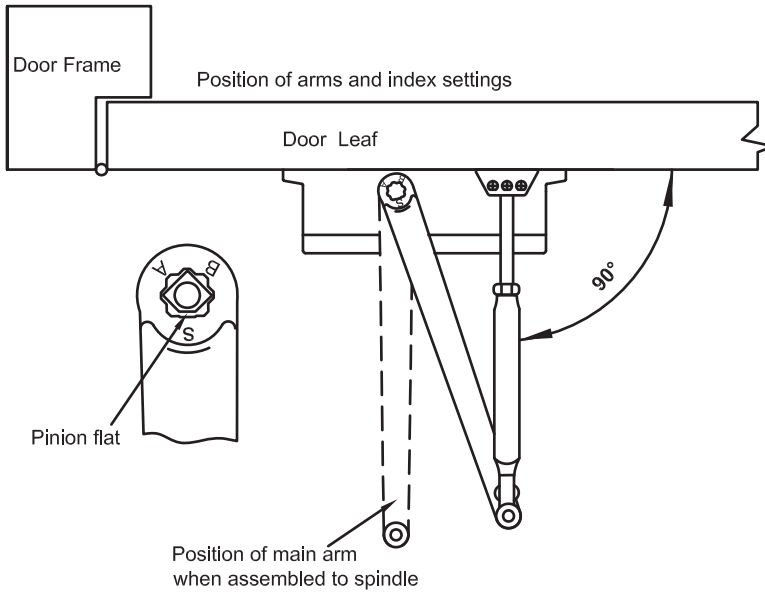
REGULAR ARM(PULL SIDE)

TECHNICAL DIMENSIONS



Dimension Series No.:	Dimension "A"		Opening Angle
	Inch	mm	
Series 8900	7	178	TO 100°
	6	152	101° TO 120°
	3-1/2	89	OVER 180°

Right hand door illustrated same dimensions apply to left hand door. Measured from hinge center. Dimensions are in inches (mm) Not To Scale

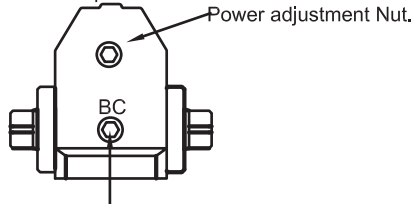


INSTALLATION STEPS:

1. Select opening degree of the door. USE Dimensions as shown to drill mounting holes on door leaf and frame.
2. Assemble main arm to closer pinion spindle.
3. Attach the closer body to door leaf with speed regulating valves toward hinge.
4. Attach the foot and rod to the door frame.
5. Adjust length of the forearm to position forearm at right angle to the door leaf when connected to main arm at elbow. USE Washer and screw provided to secure pivot connection. Tighten locknut on forearm.
6. Snap pinion cap over spindle at bottom of closer.
7. Adjust closer.

POWER SIZE AND BACK CHECK ADJUSTMENT

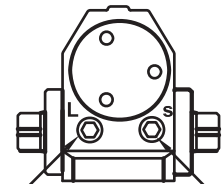
Adjust the spring power as per chart on page 1. DO NOT exceed the maximum turns. The spring power has been preset on size 3 in factory. Turn this screw clockwise to increase or counter clockwise to decrease power.



Turn BC regulating valve clockwise to strengthen or counter clockwise to reduce the intensity. NEVER close this valve completely.

SWEEP AND LATCHING SPEED ADJUSTMENT

Turn speed regulating valve clockwise to slow down or counter clockwise to speed up door movement.



This valve controls latching speed

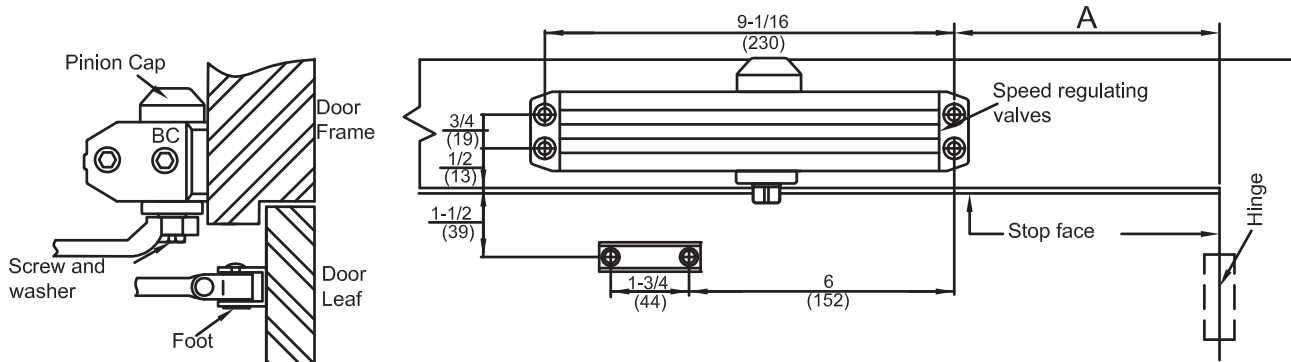
This valve controls sweep speed



IMPROPER INSTALLATION MAY RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE. FOLLOW ALL INSTRUCTIONS CAREFULLY PLEASE.

TOP JAMB MOUNTING (PUSH SIDE)

TECHNICAL DIMENSIONS:



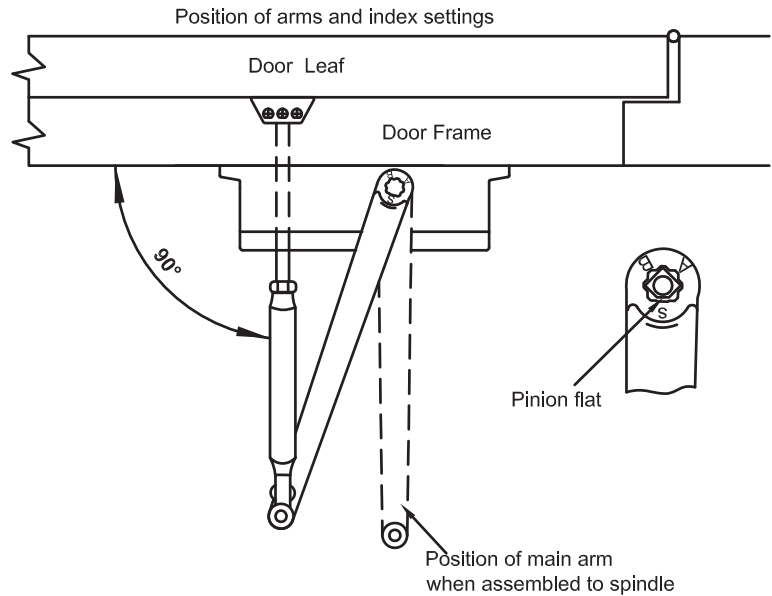
Right hand door illustrated
same dimensions apply to
left hand door.
Measured from hinge Center.

Dimensions are in inches
(mm)
Not To Scale

Dimension Series No.:	Dimension "A"		Opening Angle
	Inch	mm	
Series 8900	7	178	TO 100°
	6	152	101° TO 120°
	3-1/2	89	OVER 180°

INSTALLATION STEPS:

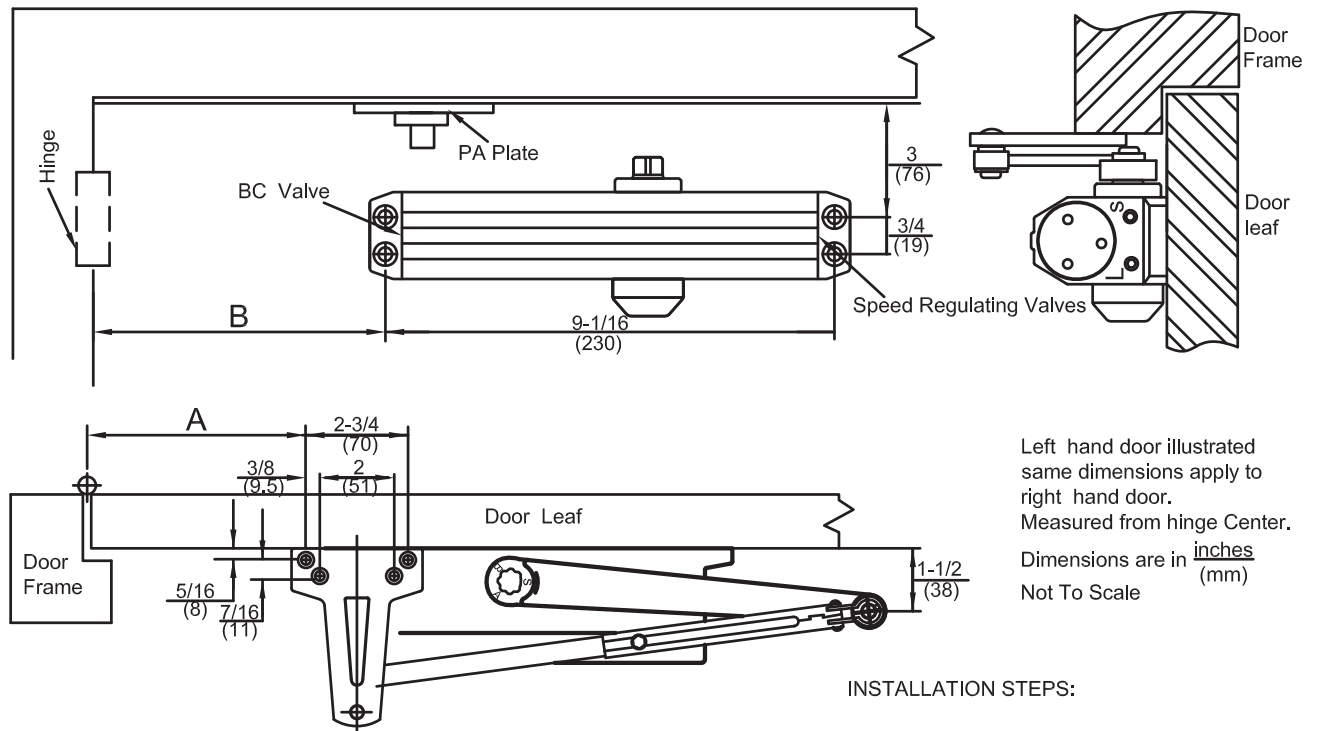
1. Select opening degree of the door. USE Dimensions as shown to drill mounting holes on door leaf and frame.
2. Assemble main arm to the closer spindle.
3. Attach the closer body to door frame with speed regulating valves toward the hinge.
4. Attach the foot and rod on the door leaf.
5. Adjust length of the forearm to position forearm at right angle to the frame when connected to main arm at elbow. USE Washer and screw provided to secure pivot connection. Tighten locknut on forearm.
6. Snap pinion cap over spindle at bottom of the closer.
7. Adjust closer. (Same to Page 2)



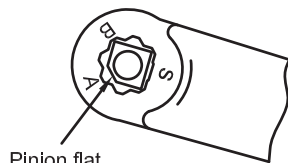
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PARALLEL ARM MOUNTING (PUSH SIDE)

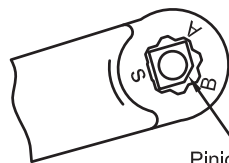
TECHNICAL DIMENSIONS:



Dimension: Series No.	Dimension "A"		Dimension "B"		Opening Angle
	Inch	mm	Inch	mm	
Series 8900	9-1/4	235	7-5/8	194	TO 100°
	7-3/4	197	6-1/8	156	101° TO 131°
	5-3/4	146	4-1/8	105	OVER 131°



Pinion flat
For left hand door



Pinion flat
For right hand door

INSTALLATION STEPS:

1. Select opening angle of the door. USE dimensions shown in chart and illustration above to drill mounting holes on door frame and leaf.
2. Attach closer to door leaf with speed regulating valves away from hinge.
3. Attach PA plate to top frame as shown.
4. Remove foot from forearm as shown and discard it.
5. Install main arm on pinion shaft, Rotate pinion 45° toward hinge edge of door to align main arm letter "B" (Right hand door) or "A" (Left hand door) with pinion flat. Fasten with arm screw.
6. Fasten forearm to PA plate.
7. Adjust forearm length to set the arm elbow about 1-1/2" (38mm) from door when connected to main arm. USE washer and screw provided to secure pivot connection. Tighten locknut.
8. Snap pinion cap over spindle at bottom.
9. Adjust closer. (Same to Page 2)



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