

900 SERIES

ANSI A156.4 Grade 1, Full Cover, Multi-Size Full Feature Closer
UL Listed, Conforms to Standards UL10C and UBC7-2-1997
BHMA Certified Lifetime Warranty



MEETS
The Buy American Act
(SPECIFY **MADE IN KOREA** WHEN ORDERING)

LIFETIME WARRANTY



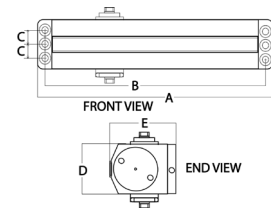
- Cal-Royal's Finest Hydraulic Door Closer Series Meeting the Highest Industry Standards Grade 1
- Heavy-Duty Full Feature Multi-Size Commercial Door Closer for Use In Office Buildings, Shopping Center and Other Commercial Buildings
- Standard Back-Check Function
- Standard Packaging includes Full Plastic Cover with Sex Bolts and Screws. (Metal Optional)
- Optional Plated Decorative Covers are available including 32D
- Optional Adjustable Delayed Action for Handicapped or Elderly

FEATURES

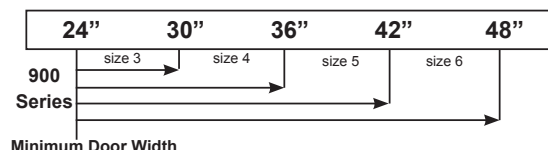
- Heavy Duty Cast Aluminum Hydraulic Door Closer
- ANSI A156.4 Grade 1: UL Listed for Fire Door Assemblies
- Universal Application. Non-Handed for Standard, Top Jamb or Parallel Arm Installation
- Non-Sized, 1 thru 6 FACTORY PRESET SIZE 3
- Door Weights: 30-260 lbs (All Models)
- Standard Adjustable Back-Check Function
- Adjustable Closing and Latching Speed by Two Separate Regulating Valves
- 6 Attaching Holes for Extra Secure Mounting to Door or Frame
- Available in Alum, Duro, Gold, and L1 (Black)
Plated Finishes also available. Consult factory.
- Optional Adjustable Delayed Action (DA). Preset at the Factory for Approximately 20 Seconds, Between 70° and 0° Delay Time Easily Adjusted Up to 1 Minute
- Barrier Free (BF) Meets ADA regulation. Size 1 thru 6 Engineered with Reduced Spring Power to Provide Easier Opening for Handicapped or Elderly



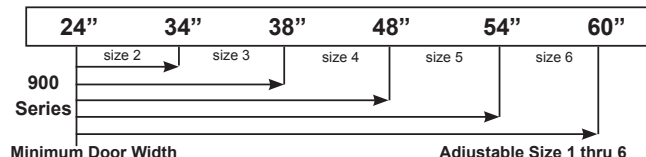
DESCRIPTION	SIZE
A. Length of Closer Body	11 3/4"
B. Horizontal Mounting Holes	11 1/8"
C. Vertical Mounting Holes	9/16"
D. Height of Closer Body	2"
E. Projection from Door	2 7/8"



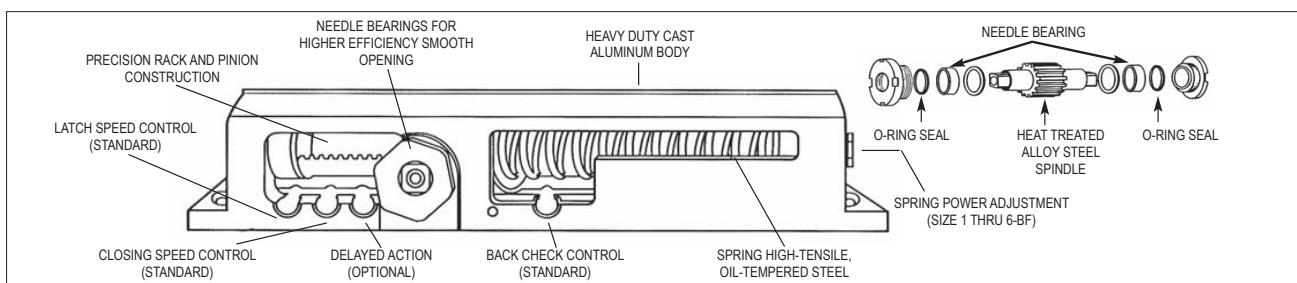
EXTERIOR (and VESTIBULE) DOOR WIDTH



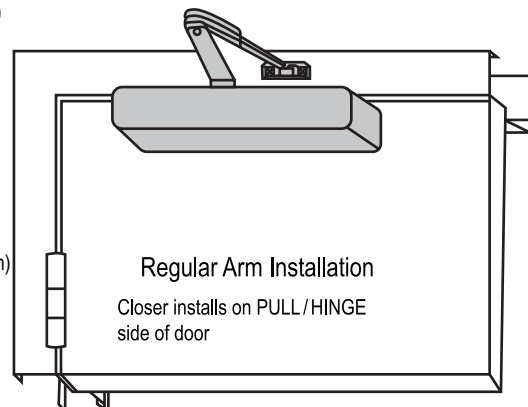
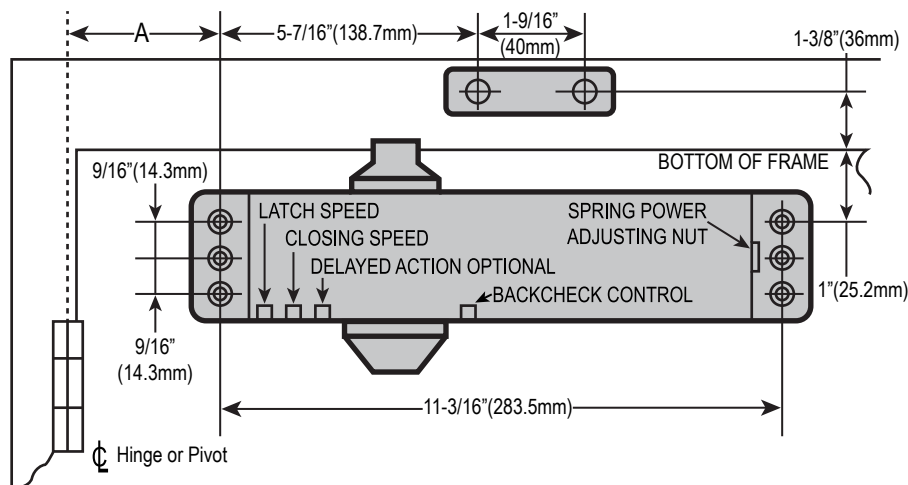
INTERIOR DOOR WIDTH



Conforms to Standards UL10C and UBC7-2-1997

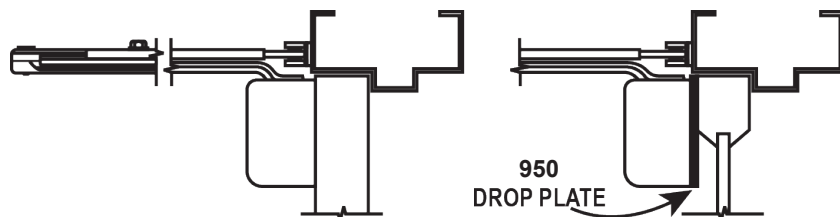


900 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

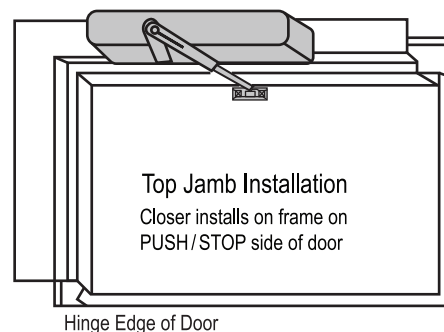
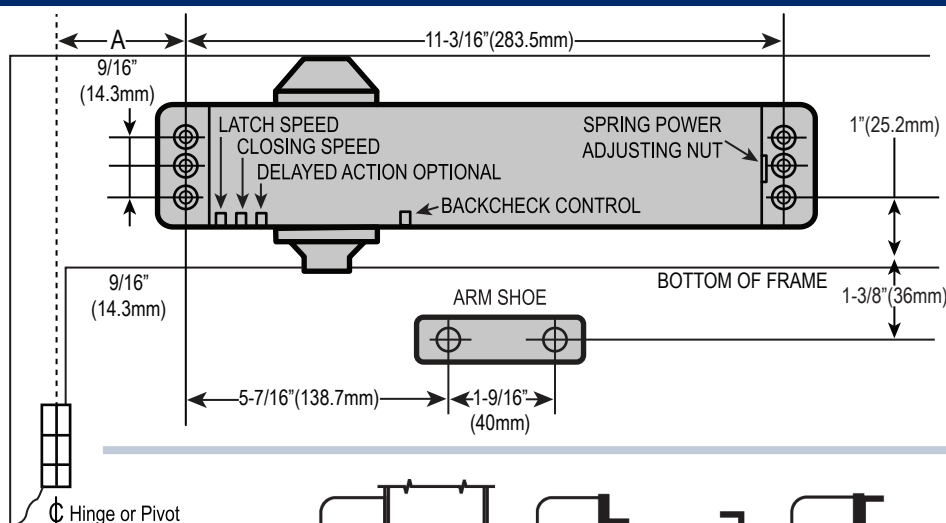


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

OPENING	DIM A
TO 120°	7-3/32 (180mm)
120° - 180°	3-15/16 (100mm)

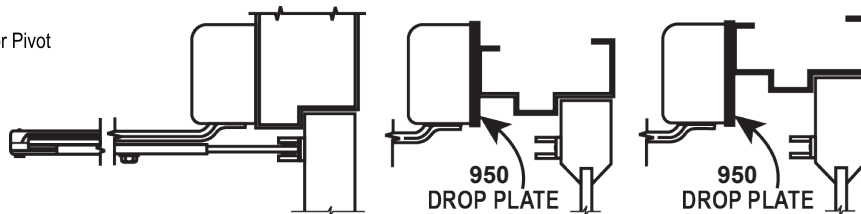


900 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)

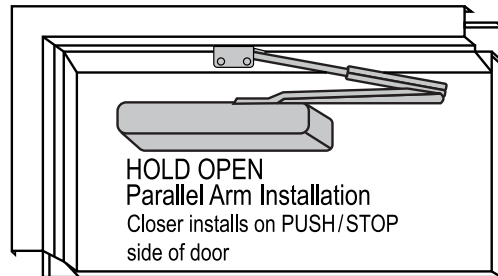
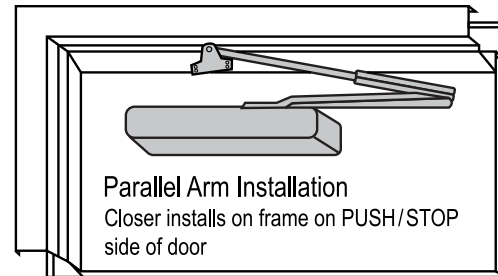
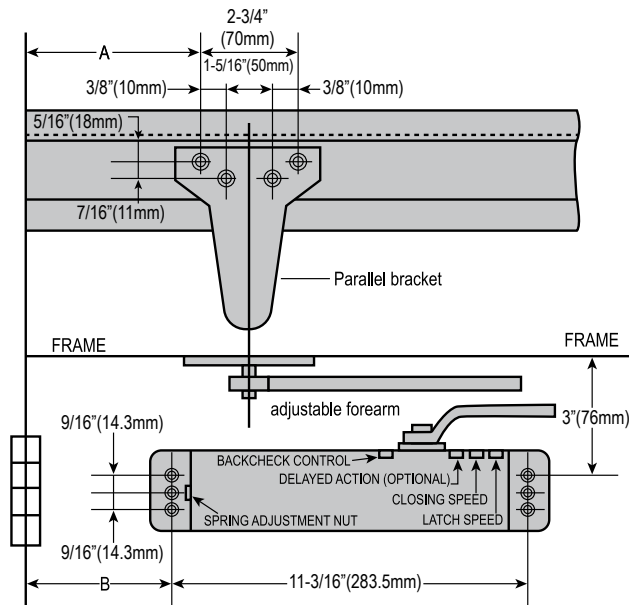


- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

OPENING	DIM A
TO 120°	7-3/32 (180mm)
120° - 180°	3-15/16 (100mm)

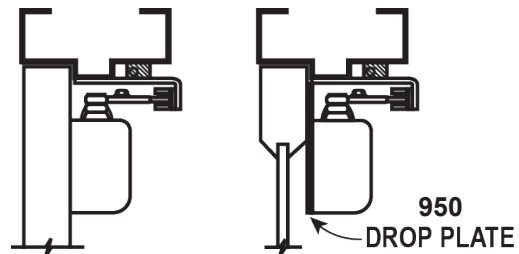


900 SERIES : PARALLEL ARM INSTALLATION (PUSH SIDE)



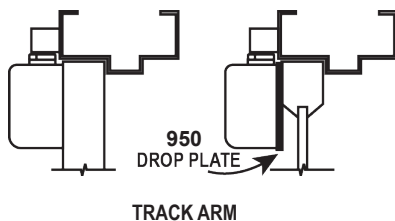
OPENING	DIM A	DIM B
TO 120°	9-1/2(241.5 mm)	6-1/8 (156 mm)
120° - 180°	5-7/8 (149.7 mm)	2-9/16 (65 mm)

- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE

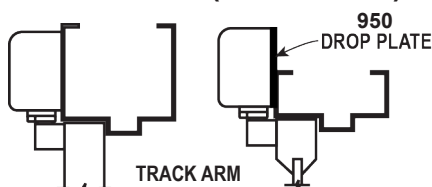


900 SERIES : OPTIONAL INSTALLATION

REGULAR ARM (PULL SIDE)



TOP JAMB (PUSH SIDE)



MAXIMUM OPENING: 180°(Standard), 120° (Hold Open)

OPTIONAL INSTALLATION

ARMS

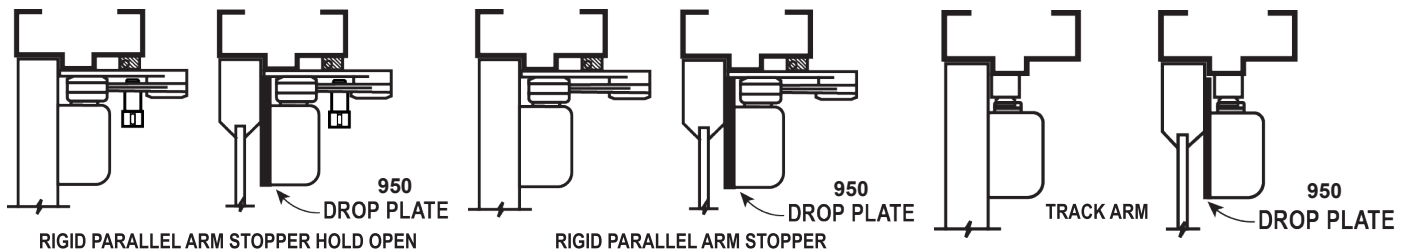
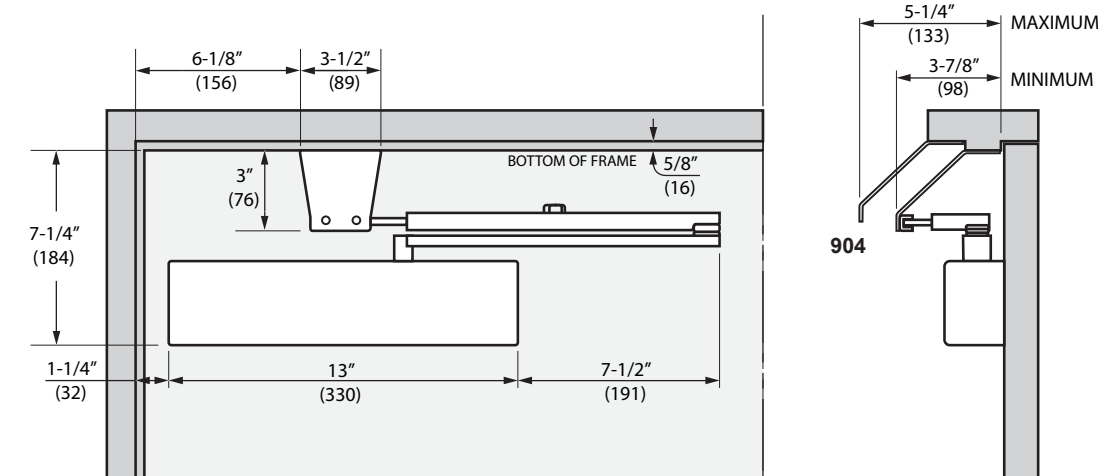
- 901 / 902 - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe
- 900EXT - Extended Long Arm (3" Extension) for Top Jamb with Deep Reveals
- 945AR - Door Closer Arm (Main and Regular Forearm)
- TRACK / 900 - Slide Track Arm with Removable Hold-Open

BRACKETS

- 950 - Flat Drop Plate for Top Rail less than 3 1/2"

900 SERIES : OPTIONAL INSTALLATION

PARALLEL ARM (PUSH SIDE)



MAXIMUM OPENING: 180° (Standard), 120° (Hold Open)

OPTIONAL INSTALLATION

ARMS

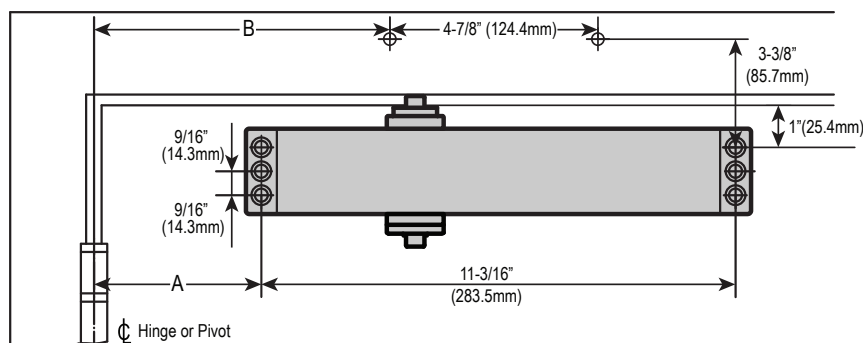
- **900HOSPRING** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Spring Loaded Stop in Soffit Shoe
- **900SPRING** - Super Rigid Non-Handed Parallel Arm with Spring Loaded Stop in the Soffit Shoe
- **HOSRPS / 900** - Super Rigid Parallel Arm Stopper Hold-Open, Non-Handed with Stop in Soffit Shoe
- **SPAS900** - Super Rigid Parallel Arm Stopper, Non-Handed with Stop in Soffit Shoe
- **901 / 902** - Hold-Open Arm with Parallel Bracket, Non-Handed with Stop in Soffit Shoe
- **900EXT** - Extended Long Arm (3" extension) for Top Jamb with Deep Reveals
- **945AR** - Door Closer Arm (Main and Regular Forearm)
- **TRACK / 900** - Slide Track Arm with Removable Hold-Open

BRACKETS

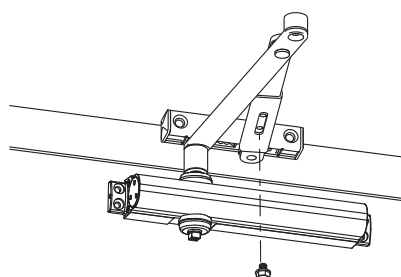
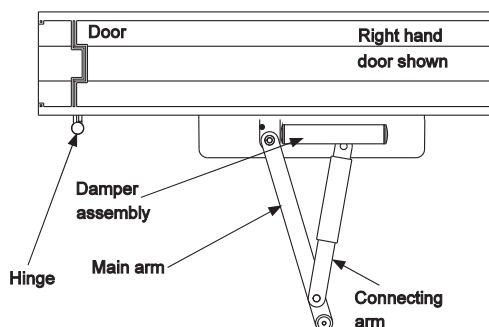
- **904** - Parallel Arm Drop Bracket for Non-Hold Open Parallel Arm Applications to Clear a Surface-Applied Stop / Holder
- **905** - Parallel Arm Bracket
- **950** - Flat Drop Plate for Top Rail less than 3 1/2"

Cushion Heavy Duty Stop Spring Arm with Spring Shoe

900 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

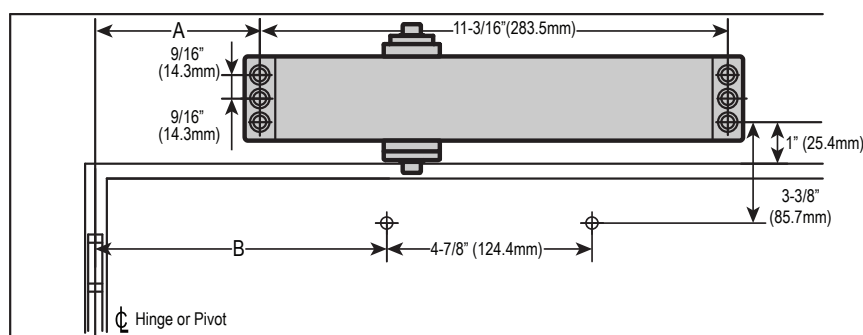


OPENING	DIM A	DIM B
TO 85°	9-3/8" (238.6mm)	12-1/4" (312mm)
TO 90°	8-3/4" (222.6mm)	11-5/8" (296mm)
TO 100°	7-7/8" (200.6mm)	10-13/16" (274mm)
TO 110°	7-1/8" (180.6mm)	10-1/16" (255mm)

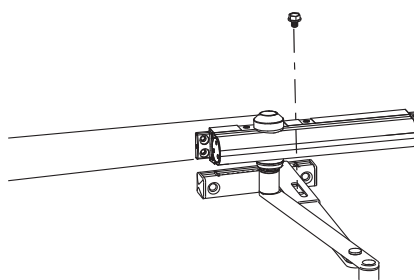
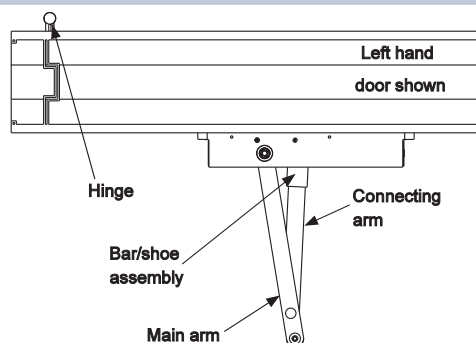


- RIGHT HAND DOOR SHOWN
- LEFT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
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900 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)



OPENING	DIM A	DIM B
TO 85°	8-5/16" (211mm)	11" (279mm)
TO 90°	8" (203mm)	10-11/16" (271mm)
TO 100°	6-7/8" (175mm)	9-9/16" (243mm)
TO 110°	6-1/4" (159mm)	8-15/16" (227mm)

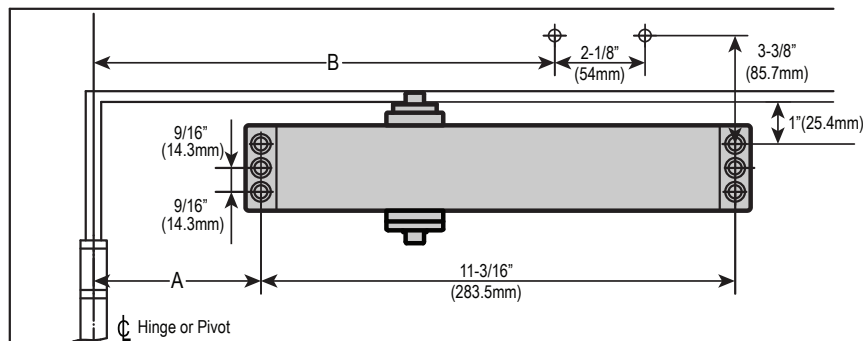


- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
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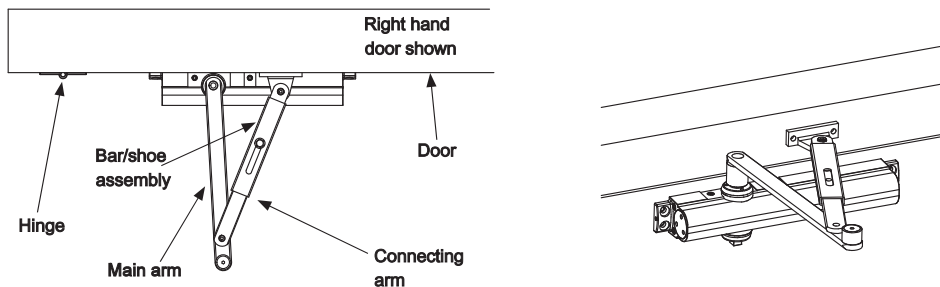
RHDSTP ARM INSTALLATION

Cushion Heavy Duty Stop Arm

900 SERIES : REGULAR ARM INSTALLATION (PULL SIDE)

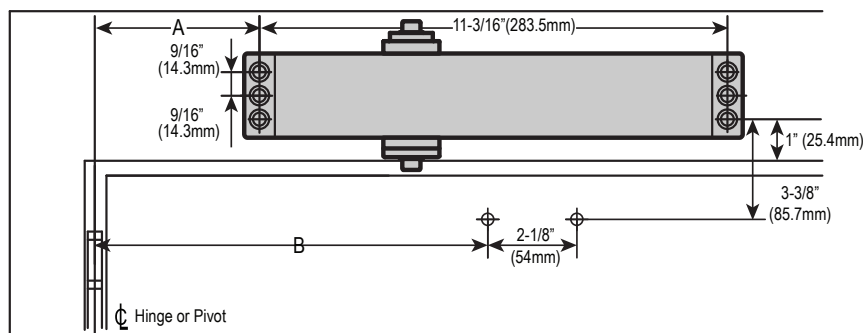


OPENING	DIM A	DIM B
TO 85°	6-1/4\"/>	14-5/16\"/>
TO 90°	5-5/8\"/>	14\"/>
TO 95°	4-13/16\"/>	13-11/16\"/>
TO 100°	5-3/4\"/>	13-1/16\"/>
TO 105°	4-1/4\"/>	12-3/4\"/>
TO 110°	4-1/8\"/>	12-5/16\"/>

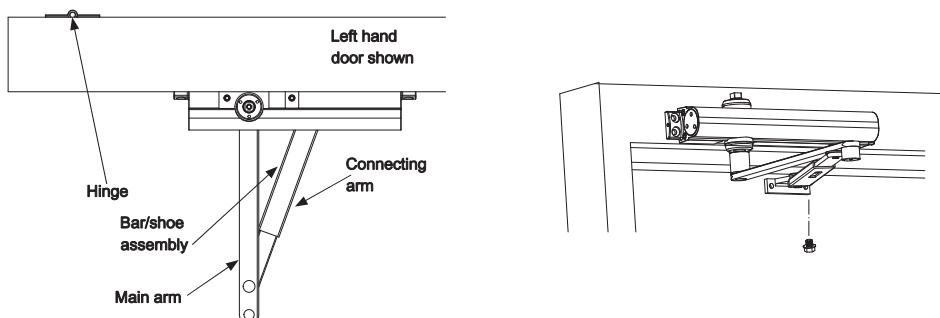


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900 SERIES: TOP JAMB INSTALLATION (PUSH SIDE)



OPENING	DIM A	DIM B
TO 85°	6-7/8\"/>	13-3/8\"/>
TO 90°	6-1/8\"/>	12-13/16\"/>
TO 95°	5-7/8\"/>	12-7/16\"/>
TO 100°	5-5/8\"/>	12\"/>
TO 105°	5-3/8\"/>	11-11/16\"/>
TO 110°	5-1/8\"/>	11-7/16\"/>



- LEFT HAND DOOR SHOWN
- RIGHT HAND DOOR OPPOSITE
- DIMENSIONS ARE IN INCHES
- DRAWING NOT TO SCALE