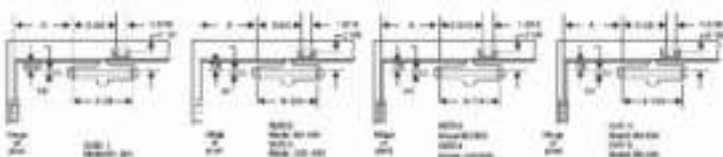


DOOR CLOSER

Surface Mounted
Size: 1, 2, 3, 4, 5
Optional Backcheck
And Hold open

Installation Instructions for REGULAR ARM (PULL SIDE) Mounting

THIS TEMPLATE COVERS REGULAR ARM INSTALLATIONS TO 180° OPENINGS

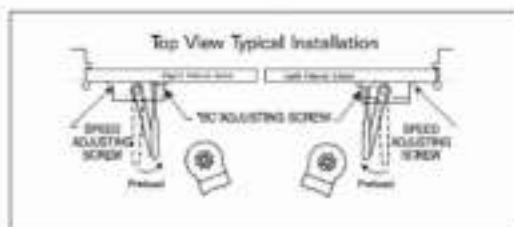


- Right hand door shown
- Left hand door opposite
- Dimensions are in inches
- Drawing not to scale

OPENING	DM-A 1" DIA (25.4MM)	DM-B 1 1/2" DIA (38.1MM)	DM-C 2" DIA (50.8MM)	DM-D 2 1/2" DIA (63.5MM)	DM-E 3" DIA (76.2MM)
TO 120"	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)
TO 180"	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)

INSTALLATION INSTRUCTIONS

- Select door opening angle and use dimensions shown above mark (mark) holes in door for door closer and fasteners on frame for arm shoe.
- 200 gph hole in door and frame for #14 all purpose screws or #8 and top for 1/4-20 machine screws.
- Install fasteners into door assembly to frame using correct gaskets.
- Mount closer on door using correct SPEED ADJUSTING VALVE MUST BE POSITIONED TOWARD HINGE EDGE.
- Install main arm to top pivot shaft, perpendicular to door as shown below. Secure tightly with an appropriate assembly pin/washer.
- Adjust length of forearm so that forearm is perpendicular to frame when door is partially fully open (illustration below). Secure forearm to main arm with appropriate assembly pin/washer.
- Drop pivot cap over shaft at bottom of door.
- Adjust closing speed of door, following instructions on sheet (page 1).



Page 2

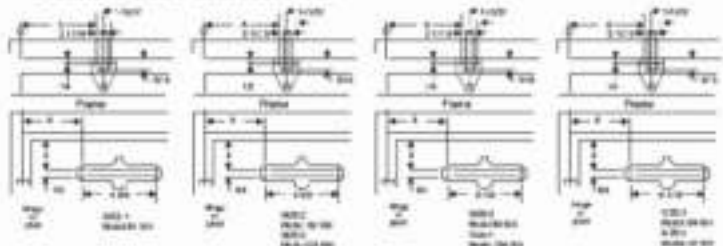
DOOR CLOSER

Surface Mounted
Size: 1, 2, 3, 4, 5
Optional Backcheck
And Hold open

Installation Instructions for PARALLEL ARM (PUSH SIDE) Mounting

THIS TEMPLATE COVERS PARALLEL ARM INSTALLATIONS TO 180° OPENINGS

Parallel bracket necessary required and is included.



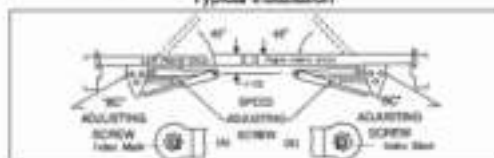
- Left hand door shown
- Right hand door opposite
- Dimensions are in inches
- Drawing not to scale

OPENING	DM-A 1 1/2" DIA (38.1MM)	DM-B 2" DIA (50.8MM)	DM-C 2 1/2" DIA (63.5MM)	DM-D 3" DIA (76.2MM)	DM-E 3 1/2" DIA (88.9MM)
TO 120"	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)
TO 180"	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)

INSTALLATION INSTRUCTIONS

- Select door opening angle and use dimensions shown above/mark (mark) holes in door for door closer and four (4) holes under side of frame for parallel bracket.
- 200 gph hole in door and frame for #14 all purpose screws or #8 and top for 1/4-20 machine screws.
- Mount closer on door using correct SPEED ADJUSTING VALVE MUST BE POSITIONED AWAY FROM HINGE EDGE.
- Install Parallel Arm. Parallel frame using correct gaskets.
- Using a wrench on the square shaft at bottom of door, rotate shaft approximately 1/2" toward hinge side of door (not on other side of shaft on top of door as shown below) to adjust FOR LEFT HAND DOORS (Illustration 1) FOR RIGHT HAND DOORS (Illustration 2). Tighten as to cover with lockwasher assembly.
- Remove arm shoe from forearm and install. Install PDS and all forearm to bracket using appropriate assembly pin/washer.
- Adjust length of adjustable forearm so that adjustable forearm is parallel to frame.
- Adjust closing speed of door, following instructions on sheet (page 1).

Typical Installation



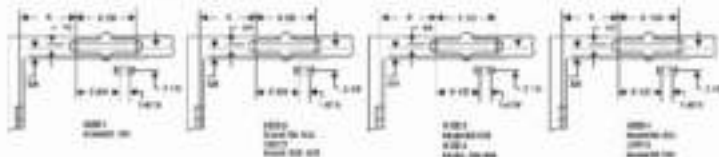
Page 4

DOOR CLOSER

Surface Mounted
Size: 1, 2, 3, 4, 5
Optional Backcheck
And Hold open

Installation Instructions for TOP JAMB (PUSH SIDE) Mounting

THIS TEMPLATE COVERS TOP JAMB INSTALLATIONS TO 180° OPENINGS

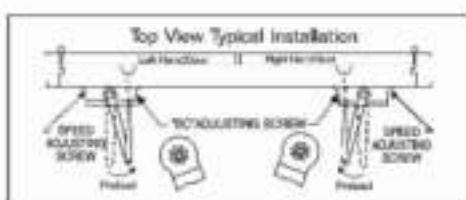


- Left hand door shown
- Right hand door opposite
- Dimensions are in inches
- Drawing not to scale

OPENING	DM-A 1 1/2" DIA (38.1MM)	DM-B 2" DIA (50.8MM)	DM-C 2 1/2" DIA (63.5MM)	DM-D 3" DIA (76.2MM)
TO 120"	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)
TO 180"	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)	4.375 (110.8MM)

INSTALLATION INSTRUCTIONS

- Select door opening angle and use dimensions shown above mark (mark) holes in frame door for door closer and two (2) holes on top arm shoe.
- 200 gph hole in door and frame for #14 all purpose screws or #8 and top for 1/4-20 machine screws.
- Install fasteners into door assembly to frame using correct gaskets.
- Mount closer on door using correct SPEED ADJUSTING VALVE MUST BE POSITIONED TOWARD HINGE EDGE.
- Install main arm to top pivot shaft, perpendicular to door as shown below. Secure tightly with an appropriate assembly pin/washer.
- Adjust length of forearm so that forearm is perpendicular to frame when door is partially fully open (illustration below). Secure forearm to main arm with appropriate assembly pin/washer.
- Drop pivot cap over shaft at bottom of door.
- Adjust closing speed of door, following instructions on sheet (page 1).

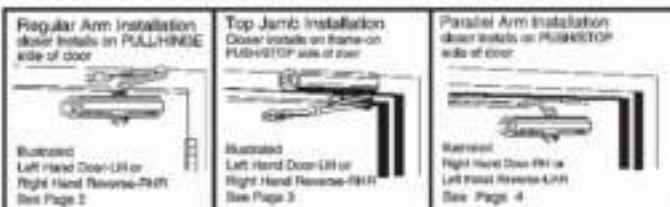


Page 3

DOOR CLOSER

Surface Mounted
Size: 1, 2, 3, 4, 5
Optional Backcheck
And Hold open

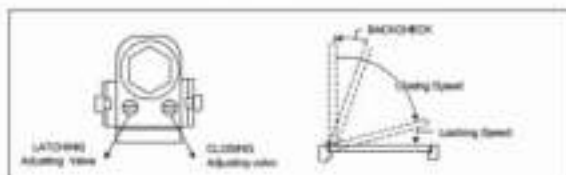
Installation Instructions Sheet



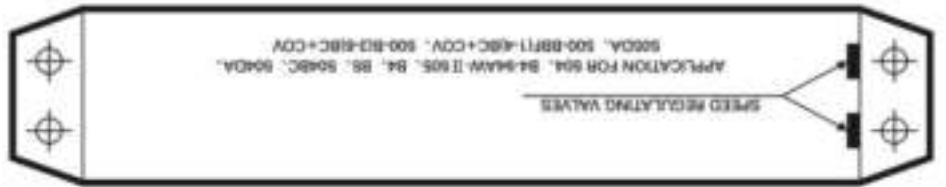
CLOSER ADJUSTMENT

CLOSING CYCLE

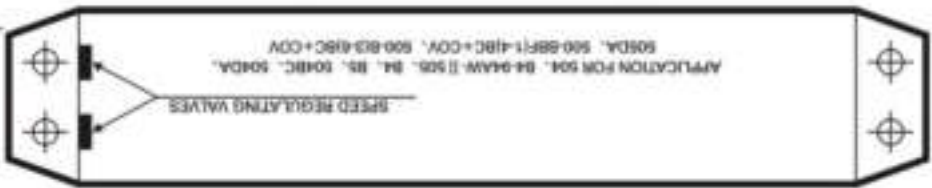
- NOTE: Closing and CLOSING and PLATO are controlled by two (2) separate speed adjusters which adjust the CLOSING speed first, then adjust the PLATO speed.
- TO CLOSING speed adjustment is accomplished by the rotation of the speed adjusting valve.
- Turn the speed adjusting valve COUNTER-CLOCKWISE for a FASTER closing speed.
 - Turn the speed adjusting valve CLOCKWISE for a SLOWER closing speed.
- PLATO speed adjustment is accomplished by the rotation of the speed adjusting valve.
- Turn the speed adjusting valve COUNTER-CLOCKWISE for a SLOWER closing speed.
 - Turn the speed adjusting valve CLOCKWISE for a FASTER closing speed.
- CAUTION: Do not turn speed adjusting valve more than 180 DEGREES counter-clockwise from its factory set position, as too speed adjusting valve could become dislodged from the door closer body resulting in the loss of internal fluid and failure of the device.



Page 1



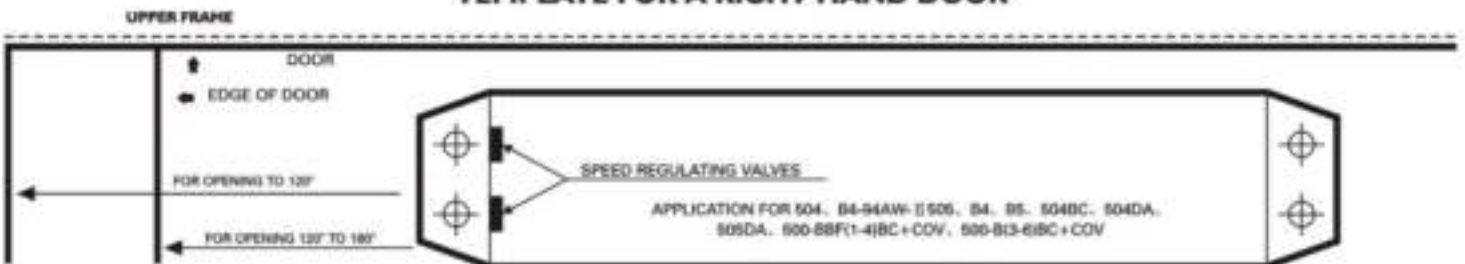
**PARALLEL APPLICATION
TEMPLATE FOR A RIGHT HAND DOOR**



**STANDARD APPLICATION
TEMPLATE FOR A LEFT HAND DOOR**



**STANDARD APPLICATION
TEMPLATE FOR A RIGHT HAND DOOR**



**PARALLEL APPLICATION
TEMPLATE FOR A LEFT HAND DOOR**

