



**Surface Mounted**  
**Adjustable & Preset "Back-Check"**  
**900 Series**  
**No Hold-Open/Hold-Open**  
**Optional BF/DA**

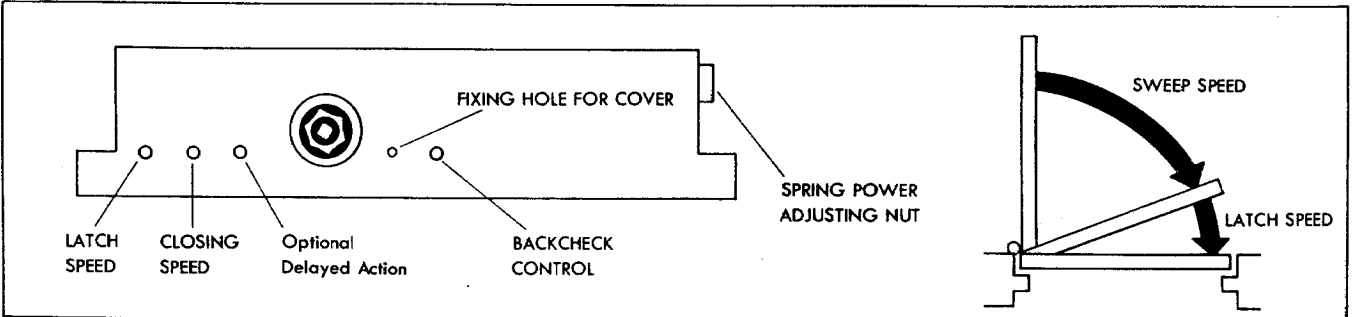
# CLOSER ADJUSTMENT

## CLOSING CYCLE

**NOTE:** Closing arcs ("CLOSE" and "LATCH") are controlled by two(2) separate speed adjusting valves adjust the CLOSING speed first, then adjust the LATCHING speed.

- "CLOSING" speed adjustment is accomplished by full rotations of the speed adjusting valve.
  - Turn the speed adjusting valve **CLOCKWISE** for a **SLOWER CLOSE** arc closing speed.
  - Turn the speed adjusting valve **COUNTER-CLOCKWISE** for a **FASTER CLOSE** arc closing speed.
- "LATCH" speed adjustment is accomplished by full rotations of the speed adjusting valve.
  - Turn the speed adjusting screw **CLOCKWISE** for a **SLOWER Latch** arc closing speed.
  - Turn the speed adjusting screw **COUNTER-CLOCKWISE** for a **FASTER Latch** arc closing speed.

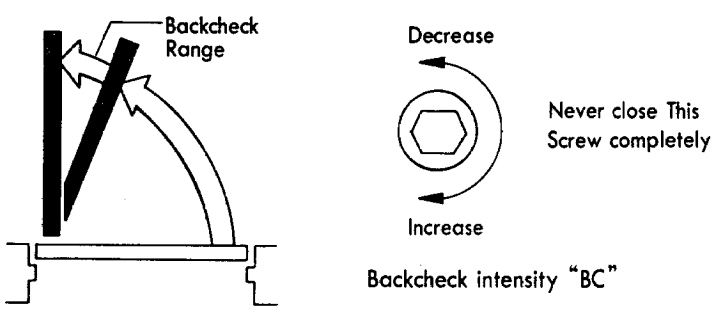
**CAUTION!!** Do not turn speed adjusting valve more than two(2) full turns counter-clockwise from its factory set position, as two speed adjusting valves could become dislodged from the door closer body, resulting in the loss of internal fluid and failure of the device.



## BACK CHECK CONTROL

- To increase back check intensity, turn back check control valve clockwise.
- To decrease back check intensity, turn back check control valve anticlockwise.

## OPENING CYCLE



## SPRING POWER CONTROL

- To increase opening force and closing force, turn the spring adjusting nut clockwise.
- To decrease opening force and closing force, turn the spring adjusting nut anticlockwise.

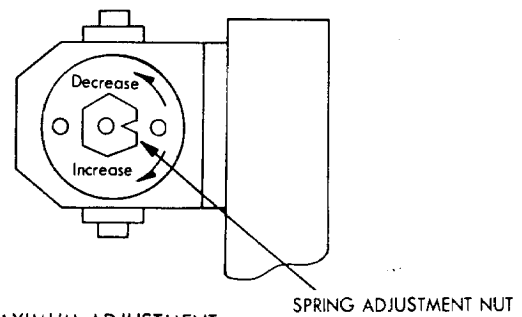
## HOW TO ADJUST SPRING POWER

BE NOTED THAT 900 SERIES ARE SET DOWN AS DOOR CLOSER SIZE 3 FROM THE FACTORY  
 EX: SIZE 2 CLOSER CAN BE MADE BY ROTATING SPRING ADJUSTING NUT ANTI-CLOCKWISE 3 TURNS  
 BECAUSE IT WAS SET DOWN AS SIZE 3 FROM THE FACTORY ORIGINALLY. ALSO IN A SAME WAY,  
 SIZE 6 CLOSER CAN BE MADE BY ROTATING SPRING ADJUSTING NUT CLOCKWISE 9 TURNS.

| DOOR CLOSER SIZE                 |                               | CLOCKWISE TURNS OF ADJUSTING NUT |                           | APPLICABLE DOOR SIZE |                      | APPLICABLE DOOR WEIGHT  |
|----------------------------------|-------------------------------|----------------------------------|---------------------------|----------------------|----------------------|-------------------------|
| 900-P/PDA (SIZE 1/2-6)           | 900-FBF/BFDA (SIZE 1/2-4)     | 900-P/PDA (SIZE 2-6)             | 900-PBF/BFDA (SIZE 1/2-4) | INTERIOR             | EXTERIOR (SWING OUT) |                         |
| NOT RECOMMENDED USE 900-PBF/BFDA | 1/2                           | N/A                              | - 9                       | 28" (0.71m)          | 24" (0.51m)          | 22-33 Lbs (10-15kg)     |
| NOT RECOMMENDED USE 900-PBF/BFDA | 1                             | N/A                              | - 6                       | 32" (0.81m)          | 28" (0.71m)          | 33-55 Lbs (15-30kg)     |
| 2                                | 2                             | - 3                              | - 3                       | 36" (0.91m)          | 32" (0.81m)          | 66-88 Lbs (30-45kg)     |
| 3                                | 3                             | 0 (FACTORY SET)                  | 0 (FACTORY SET)           | 42" (1.07m)          | 38" (0.91m)          | 99-143 Lbs (45-85kg)    |
| 4                                | 4                             | 3                                | 3                         | 48" (1.22m)          | 42" (1.07m)          | 143-187 Lbs (65-85kg)   |
| 5                                | NOT RECOMMENDED USE 900-P/PDA | 6                                | N/A                       | 54" (1.37m)          | 48" (1.22m)          | 187-264 Lbs (85-120kg)  |
| 6                                | NOT RECOMMENDED USE 900-P/PDA | 9                                | N/A                       | 58" (1.47m)          | 52" (1.32m)          | 264-330 Lbs (120-150kg) |

- 3 MEANS 3 TURNS TO ANTI - CLOCKWISE

## ADJUSTABLE SPRING MODELS



**NOTE:** MAXIMUM ADJUSTMENT IS APPROXIMATELY 10 TURNS. DO NOT FORCIBLY EXTEND ADJUSTMENT BEYOND LIMITS.