



## TS 50 SERIES DOOR CLOSER

### Features

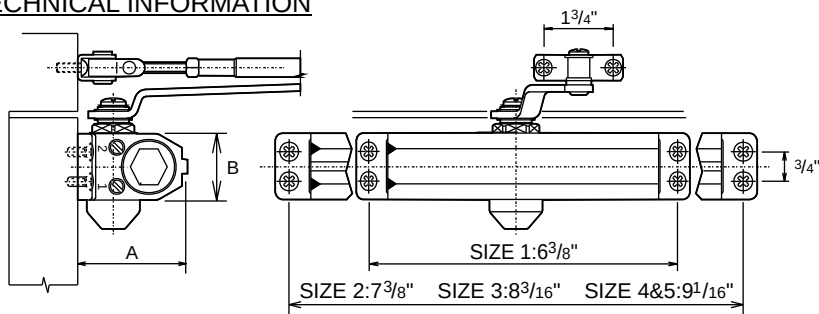
- ◆ Hydraulic door closer
- ◆ Size 1 to size 5 with different body sizes
- ◆ The hardened steel rack and pinion mechanism is housed in the alloy aluminum body
- ◆ Reversible for both left and right handed doors
- ◆ universal application for standard, top jamb, or parallel arm installation (Optional parallel bracket)
- ◆ suitable for both metal and wood doors
- ◆ Adjustable closing speed from 180°~15° by turning the adjusting valve 1
- ◆ Adjustable latching speed from 15°~0° by turning the adjusting valve 2
- ◆ Optional adjustable back check (Except size 1)
- ◆ UL listed.



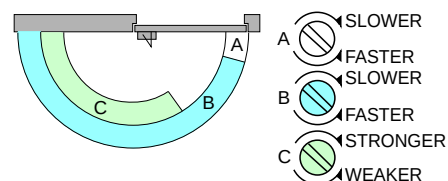
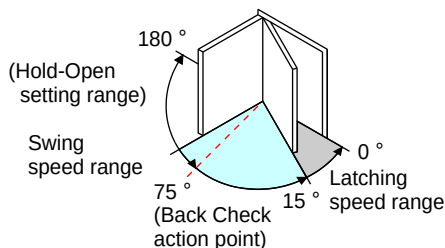
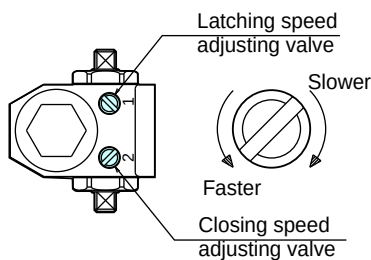
### SELECTION CHART

| SIZE<br>No . | STANDARD / TOP JAMB INSTALLATION |                         |          |                             | PARALLEL INSTALLATION          |                         |          |                             | Door<br>weight<br>(lbs) |
|--------------|----------------------------------|-------------------------|----------|-----------------------------|--------------------------------|-------------------------|----------|-----------------------------|-------------------------|
|              | Interior<br>door width<br>(mm)   | Exterior door width(mm) |          | Closing<br>force<br>(lbf.m) | Interior<br>door width<br>(mm) | Exterior door width(mm) |          | Closing<br>force<br>(lbf.m) |                         |
|              |                                  | Swing out               | Swing in |                             |                                | Swing out               | Swing in |                             |                         |
| TS 51        | 800                              | 700                     | 600      | 2                           | 700                            | 600                     | ————     | 2                           | 55                      |
| TS 52        | 900                              | 800                     | 700      | 3                           | 800                            | 700                     | 600      | 3                           | 55~99                   |
| TS 53        | 950                              | 900                     | 800      | 5                           | 900                            | 800                     | 700      | 5                           | 88~143                  |
| TS 54        | 1050                             | 950                     | 900      | 8                           | 950                            | 900                     | 800      | 8                           | 132~187                 |
| TS 55        | 1200                             | 1050                    | 950      | 11                          | 1050                           | 950                     | 900      | 11                          | 176~265                 |

### TECHNICAL INFORMATION



| Model | A        | B        |
|-------|----------|----------|
| TS 51 | 2 1/2"   | 1 11/20" |
| TS 52 | 2 17/20" | 1 3/4"   |
| TS 53 | 2 17/20" | 1 3/4"   |
| TS 54 | 2 17/20" | 1 3/4"   |
| TS 55 | 2 17/20" | 1 3/4"   |



(A) LATCHING RANGE (B) CLOSING RANGE (C) BACK CHECK REACTION



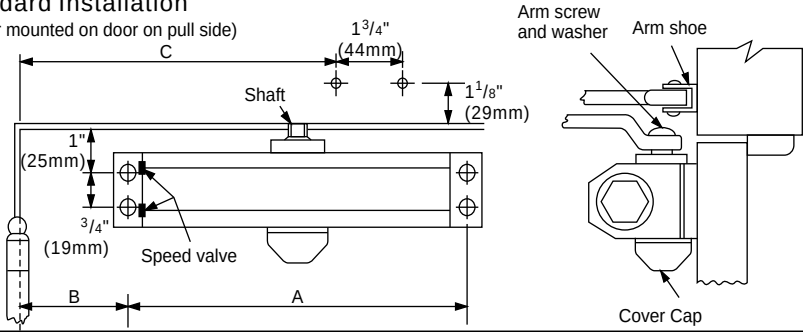
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Installation instructions

Standard Installation

(Closer mounted on door on pull side)

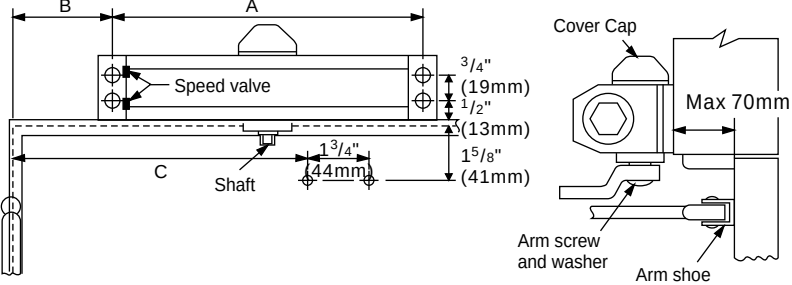


Same dimensions apply to Left Hand Doors.  
Measurements B & C start from the edge of the door.

| Closer size | A               | FOR OPENING TO 120 ° |             | FOR OPENING TO 180 ° |                |
|-------------|-----------------|----------------------|-------------|----------------------|----------------|
|             |                 | B                    | C           | B                    | C              |
| 1           | 6 3/8" (162mm)  | 5 3/4" (146mm)       | 10" (254mm) | 4 1/4" (108mm)       | 8 1/4" (210mm) |
| 2           | 7 3/8" (187mm)  | 6 5/16" (160mm)      | 12" (305mm) | 4 7/8" (124mm)       | 10" (254mm)    |
| 3           | 8 3/16" (208mm) | 5 15/16" (151mm)     | 12" (305mm) | 4 1/2" (114mm)       | 10" (254mm)    |
| 4&5         | 9 1/16" (230mm) | 5 1/2" (140mm)       | 12" (305mm) | 4 1/16" (103mm)      | 10" (254mm)    |

Top Jamb Installation

(Closer mounted on top jamb on push side of door)

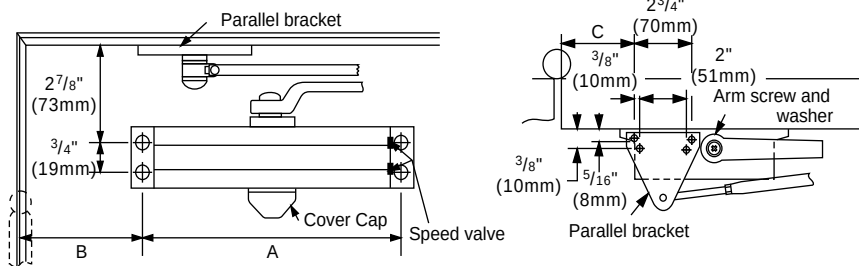


Same dimensions apply to Right Hand Doors.  
Measurements B & C start from the edge of the door.

| Closer size | A               | FOR OPENING TO 120 ° |                  | FOR OPENING TO 180 ° |                |
|-------------|-----------------|----------------------|------------------|----------------------|----------------|
|             |                 | B                    | C                | B                    | C              |
| 1           | 6 3/8" (162mm)  | 5 3/4" (146mm)       | 9 15/16" (252mm) | 4" (102mm)           | 7 7/8" (200mm) |
| 2           | 7 3/8" (187mm)  | 6 7/16" (164mm)      | 11 3/4" (298mm)  | 4 1/4" (108mm)       | 8 3/4" (222mm) |
| 3           | 8 3/16" (208mm) | 6 1/16" (154mm)      | 11 3/4" (298mm)  | 3 7/8" (98mm)        | 8 3/4" (222mm) |
| 4&5         | 9 1/16" (230mm) | 5 5/8" (143mm)       | 11 3/4" (298mm)  | 3 7/16" (87mm)       | 8 3/4" (222mm) |

Parallel Installation

(Closer mounted on door on push side)



Same dimensions apply to Right Hand Doors.  
Measurements B & C start from the edge of the door.

| Closer size | A               | FOR OPENING TO 120 ° |                 | FOR OPENING TO 180 ° |                  |
|-------------|-----------------|----------------------|-----------------|----------------------|------------------|
|             |                 | B                    | C               | B                    | C                |
| 1           | 6 3/8" (162mm)  | 7 1/8" (181mm)       | 8" (203mm)      | 5 5/8" (142.6mm)     | 6 1/2" (165mm)   |
| 2           | 7 3/8" (187mm)  | 8 3/4" (222mm)       | 9 1/16" (230mm) | 7 3/8" (187mm)       | 7 11/16" (195mm) |
| 3           | 8 3/16" (208mm) | 8 3/8" (213mm)       | 9 1/16" (230mm) | 7" (178mm)           | 7 11/16" (195mm) |
| 4&5         | 9 1/16" (230mm) | 7 15/16" (202mm)     | 9 1/16" (230mm) | 6 9/16" (167mm)      | 7 11/16" (195mm) |

Finished color Abbreviations : AL (Aluminium) 、 DU (Dark Beonze) 、 BZ (Gold)

Three years warranty from delivery.