



## 50 SERIES DOOR CLOSER

### Features

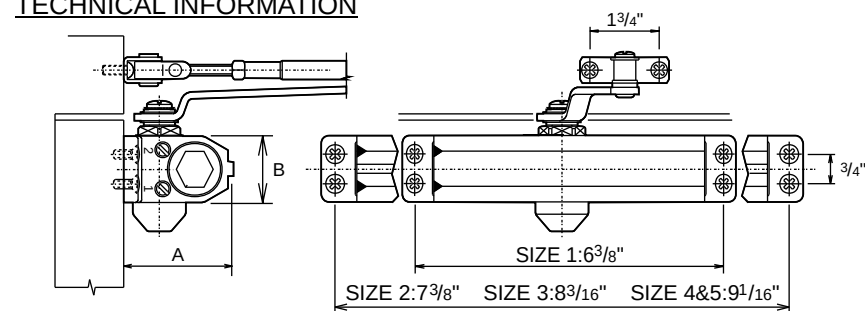
- ◆ Hydraulic door closer
- ◆ Size 1 to size 5 with different body sizes
- ◆ The hardened steel rack and pinion mechanism is housed in the alloy aluminum body
- ◆ Reversible for both left and right handed doors
- ◆ Universal applications for standard, top jamb, or parallel arm installation (Optional parallel bracket)
- ◆ Suitable for both metal and wooden 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 for build in back check. (Except size 1)
- ◆ UL listed.



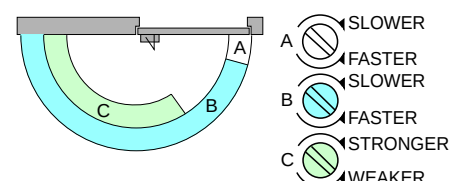
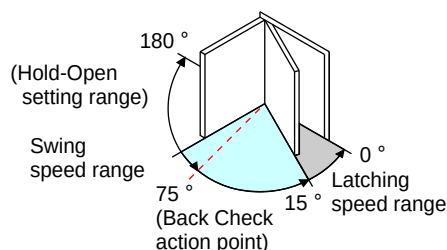
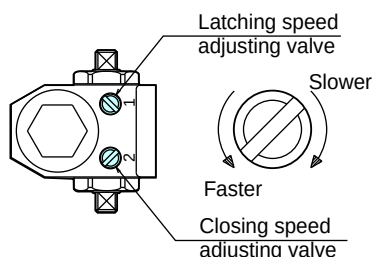
### SELECTION CHART

| SIZE<br>No . | STANDARD / TOP JAMB INSTALLATION |                         |          |                 | PARALLEL INSTALLATION          |                         |          |                 | DOOR WEIGHT<br>(Ret)<br>lbs |
|--------------|----------------------------------|-------------------------|----------|-----------------|--------------------------------|-------------------------|----------|-----------------|-----------------------------|
|              | Interior<br>door width<br>(mm)   | Exterior door width(mm) |          | Minimum<br>Lbf. | Interior<br>door width<br>(mm) | Exterior door width(mm) |          | Minimum<br>Lbf. |                             |
|              |                                  | Swing out               | Swing in |                 |                                | Swing out               | Swing in |                 |                             |
| 51           | 800                              | 700                     | 600      | 3               | 700                            | 600                     | ————     | 2               | 44                          |
| 52           | 900                              | 800                     | 700      | 5               | 800                            | 700                     | 600      | 3               | 44~88                       |
| 53           | 950                              | 900                     | 800      | 6               | 900                            | 800                     | 700      | 5               | 88~132                      |
| 54           | 1050                             | 950                     | 900      | 8               | 950                            | 900                     | 800      | 6               | 132~176                     |
| 55           | 1200                             | 1050                    | 950      | 11              | 1050                           | 950                     | 900      | 8               | 176~220                     |

### 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"   |



Ⓐ LATCHING RANGE Ⓑ CLOSING RANGE Ⓒ BACK CHECK REACTION



HENG KUO CO., LTD. - (TAIWAN)  
KUNSHAN HENG KUO MACHINERY CO., LTD

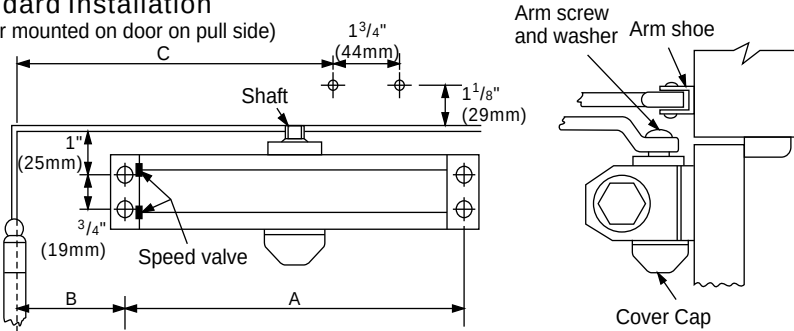
TAIWAN PLANT : No136, Ren De 5, Ta-Shi, Tao Yuan Hsien, Taiwan R.O.C.  
TEL : 886-3-380-2101 FAX : 886-3-380-2123  
CHINA PLANT : No.388 Lu Chen Road kun Shan City CHINA  
TEL : 86-512-861-86625 FAX : 86-512-575-70392

SINCE 1954

## Installation instructions

### Standard Installation

(Closer mounted on door on pull side)

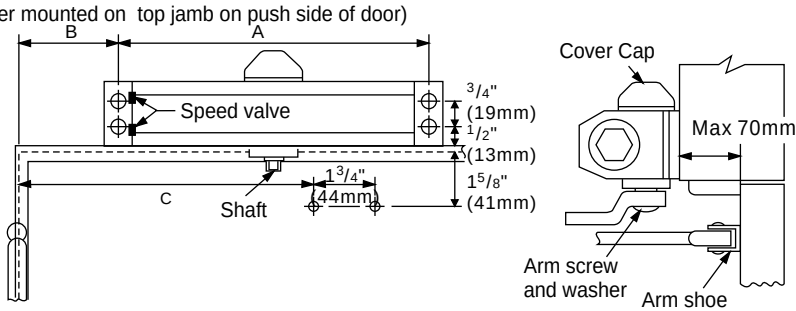


Same dimensions apply to Left Hand Doors.  
Measurements B & C start from the edge of the door.

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

### Top Jamb Installation

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

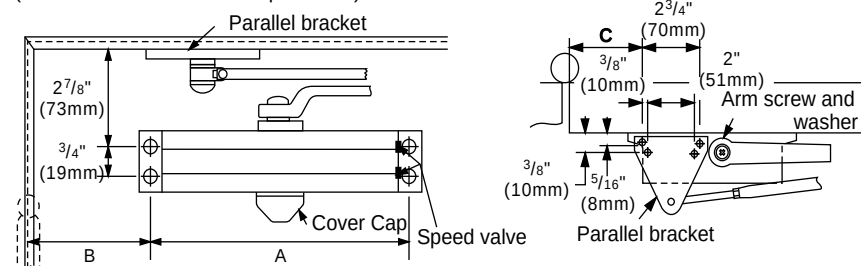


Same dimensions apply to Right Hand Doors.  
Measurements B & C start from the edge of the door.

| Closer size | A                                           | FOR OPENING TO 120 °                        |                                              | FOR OPENING TO 180 °                       |                                            |
|-------------|---------------------------------------------|---------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
|             |                                             | B                                           | C                                            | B                                          | C                                          |
| 1           | 6 <sup>3</sup> / <sub>8</sub> "<br>(162mm)  | 5 <sup>3</sup> / <sub>4</sub> "<br>(146mm)  | 9 <sup>15</sup> / <sub>16</sub> "<br>(252mm) | 4"<br>(102mm)                              | 7 <sup>7</sup> / <sub>8</sub> "<br>(200mm) |
| 2           | 7 <sup>3</sup> / <sub>8</sub> "<br>(187mm)  | 6 <sup>7</sup> / <sub>16</sub> "<br>(164mm) | 11 <sup>3</sup> / <sub>4</sub> "<br>(298mm)  | 4 <sup>1</sup> / <sub>4</sub> "<br>(108mm) | 8 <sup>3</sup> / <sub>4</sub> "<br>(222mm) |
| 3           | 8 <sup>3</sup> / <sub>16</sub> "<br>(208mm) | 6 <sup>1</sup> / <sub>16</sub> "<br>(154mm) | 11 <sup>3</sup> / <sub>4</sub> "<br>(298mm)  | 3 <sup>7</sup> / <sub>8</sub> "<br>(98mm)  | 8 <sup>3</sup> / <sub>4</sub> "<br>(222mm) |
| 4&5         | 9 <sup>1</sup> / <sub>16</sub> "<br>(230mm) | 5 <sup>5</sup> / <sub>8</sub> "<br>(143mm)  | 11 <sup>3</sup> / <sub>4</sub> "<br>(298mm)  | 3 <sup>7</sup> / <sub>16</sub> "<br>(87mm) | 8 <sup>3</sup> / <sub>4</sub> "<br>(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 <sup>3</sup> / <sub>8</sub> "<br>(162mm)  | 7 <sup>1</sup> / <sub>8</sub> "<br>(181mm)   | 8"<br>(203mm)                               | 5 <sup>5</sup> / <sub>8</sub> "<br>(142.6mm) | 6 <sup>1</sup> / <sub>2</sub> "<br>(165mm)   |
| 2           | 7 <sup>3</sup> / <sub>8</sub> "<br>(187mm)  | 8 <sup>3</sup> / <sub>4</sub> "<br>(222mm)   | 9 <sup>1</sup> / <sub>16</sub> "<br>(230mm) | 7 <sup>3</sup> / <sub>8</sub> "<br>(187mm)   | 7 <sup>11</sup> / <sub>16</sub> "<br>(195mm) |
| 3           | 8 <sup>3</sup> / <sub>16</sub> "<br>(208mm) | 8 <sup>3</sup> / <sub>8</sub> "<br>(213mm)   | 9 <sup>1</sup> / <sub>16</sub> "<br>(230mm) | 7"<br>(178mm)                                | 7 <sup>11</sup> / <sub>16</sub> "<br>(195mm) |
| 4&5         | 9 <sup>1</sup> / <sub>16</sub> "<br>(230mm) | 7 <sup>15</sup> / <sub>16</sub> "<br>(202mm) | 9 <sup>1</sup> / <sub>16</sub> "<br>(230mm) | 6 <sup>9</sup> / <sub>16</sub> "<br>(167mm)  | 7 <sup>11</sup> / <sub>16</sub> "<br>(195mm) |

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

Three years warranty from delivery.