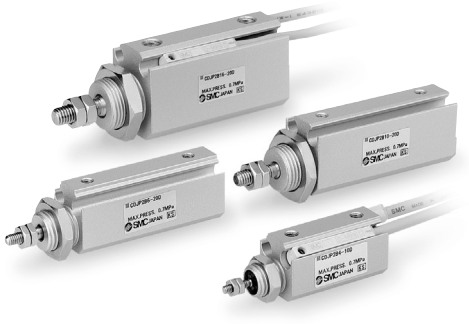
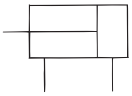


**JIS Symbol**

Double acting, Single rod



## Specifications

| | | |
|---|---|---|
| **Action** | | Double acting, Single rod |
| **Maximum operating pressure** | | 0.7 MPa |
| **Minimum operating pressure** | **ø4** | 0.15 MPa |
| | **ø6** | 0.12 MPa |
| | **ø10, ø16** | 0.06 MPa |
| **Proof pressure** | | 1.05 MPa |
| **Ambient and fluid temperature** | | Without auto switch: –10 to 70°C (No freezing)<br>With auto switch: –10 to 60°C (No freezing) |
| **Lubrication** | | Not required (Non-lube) |
| **Stroke length tolerance** | | $^{+1.0}_{0}$ |
| **Thread tolerance** | | JIS Class 2 |
| **Rod end style** | | With thread/Without thread |
| **Piston speed** | | 50 to 500 mm/s |
| **Cushion** | | Rubber bumper |
| **Mounting** Note) | | Basic, Flange, Foot, Clevis, Trunnion |

Note) Bore size of ø4 is available with basic mounting only.

## Standard Equipment Accessory

| Accessory / Mounting | Mounting nut (1 pc.) | Rod end nut (2 pcs.) (with thread) | Trunnion (with pin) |
|---|---|---|---|
| Basic | ● | ● | — |
| Flange | ● | ● | — |
| Foot | ● | ● | — |
| Clevis | — | ● | — |
| Trunnion | — | ● | ● |

## Standard Stroke

| Bore size (mm) | Stroke (mm) |
|---|---|
| **4** | 5, 10, 15, 20 Note) |
| **6** | 5, 10, 15, 20, 25 |
| **10** | 5, 10, 15, 20, 25, 30, 35, 40 |
| **16** | 5, 10, 15, 20, 25, 30, 35, 40 |

∗ 20 stroke of bore size 4 mm is standard type only.

Made to Order

### Made to Order

**(For details, refer to page 22, 23.)**

| Symbol | Specifications |
|---|---|
| **XA□** | Change of rod end style |
| **XB6** | Heat resistant cylinder (150C) |
| **XB7** | Cold resistant cylinder |
| **XC22** | Fluoro rubber seals |

## Option

| Description / Bore size (mm) | **6** | **10** | **16** |
|---|---|---|---|
| Auto switch | D-A9□(V), D-M9□(V), D-M9□W(V) | | |
| Single knuckle joint | I-P006A | I-P010A | I-P016A |
| Double knuckle joint (with pin) | Y-P006A | Y-P010A | Y-P016A |

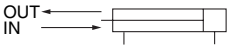
## Mounting Bracket Part No.

| Bracket / Bore size (mm) | **6** | **10** | **16** |
|---|---|---|---|
| Flange | CP-F006A | CP-F010A | CP-F016A |
| Foot | CP-L006A | CP-L010A | CP-L016A |
| Trunnion (with pin) | CP-T006A | CP-T010A | CP-T016A |

## Theoretical Output

(N)

| Bore size (mm) | Operating direction | Operating pressure (MPa) | | |
|---|---|---|---|---|
| | | 0.3 | 0.5 | 0.7 |
| **4** | IN | 2.8 | 4.7 | 6.6 |
| | OUT | 3.8 | 6.3 | 8.8 |
| **6** | IN | 6.4 | 10.6 | 14.8 |
| | OUT | 8.5 | 14.1 | 19.8 |
| **10** | IN | 19.8 | 33 | 46.2 |
| | OUT | 23.6 | 39.3 | 55 |
| **16** | IN | 51.8 | 86.4 | 121 |
| | OUT | 60.3 | 100.5 | 140.7 |



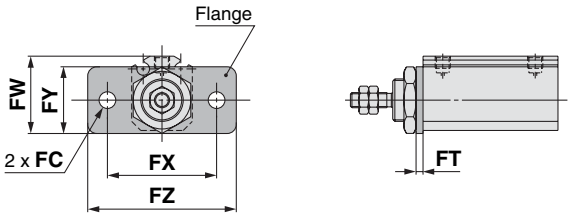

## Weight

(g)

| Stroke (mm) / Mounting | | Bore size (mm) | | | |
|---|---|---|---|---|---|
| | | **4** | **6** | **10** | **16** |
| Basic weight | 5 | 11 | 16 | 27 | 42 |
| | 10 | 13 | 18 | 29 | 46 |
| | 15 | 15 | 21 | 32 | 50 |
| | 20 | 17 | 23 | 35 | 54 |
| | 25 | — | 25 | 37 | 58 |
| | 30 | — | — | 40 | 63 |
| | 35 | — | — | 43 | 67 |
| | 40 | — | — | 45 | 71 |
| Bracket weight | Flange | — | 5 | 6 | 16 |
| | Foot | — | 7 | 9 | 24 |
| | Clevis | — | 2 | 5 | 8 |
| | Trunnion (with pin) | — | 15 | 25 | 70 |
| Additional weight for built-in magnet | | 2 | 3 | 5 | 7 |

## Mounting Bracket Dimensions

### Flange: C(D)JP2F6 to 16

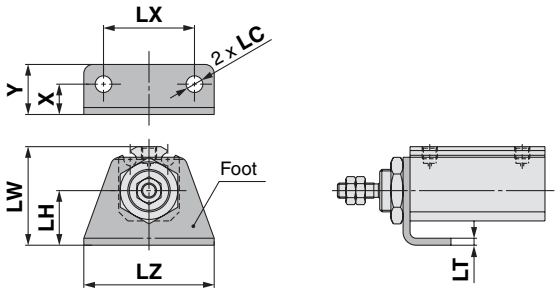



**Flange** (mm)

| Bore size \ Symbol | FC | FT | FW | FX | FY | FZ |
|---|---|---|---|---|---|---|
| **6** | 3.4 | 1.6 | 18.5 | 24 | 16 | 32 |
| **10** | 4.5 | 1.6 | 21 | 28 | 18 | 37 |
| **16** | 5.5 | 2.3 | 25.5 | 36 | 22 | 49 |

∗ Other dimensions are the same as basic mounting.

### Foot: C(D)JP2L6 to 16

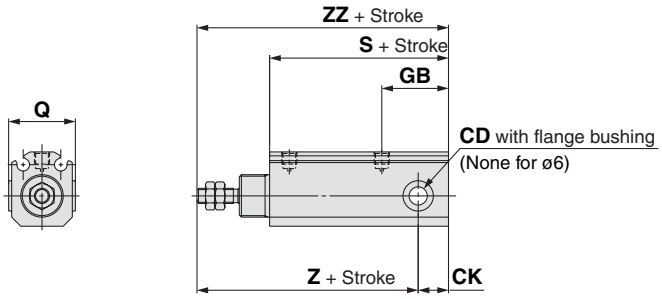



**Foot** (mm)

| Bore size \ Symbol | X | Y | LC | LH | LT | LW | LX | LZ |
|---|---|---|---|---|---|---|---|---|
| **6** | 6.5 | 10.5 | 3.4 | 11 | 1.6 | 21.5 | 20 | 28 |
| **10** | 7 | 12 | 4.5 | 13 | 1.6 | 25 | 24 | 33 |
| **16** | 10 | 16.5 | 5.5 | 18 | 2.3 | 32.5 | 30 | 43 |

∗ Other dimensions are the same as basic mounting.

### Clevis: C(D)JP2D6 to 16

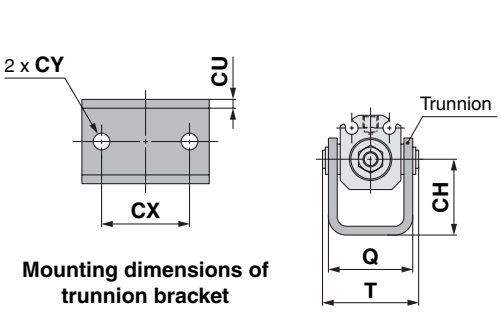



**Clevis** (mm)

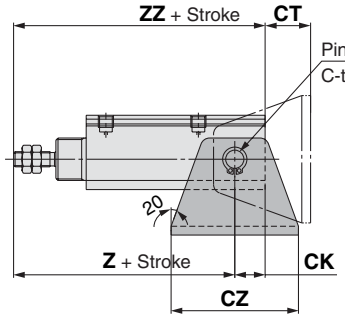
| Bore size \ Symbol | CD | CK | GB | Q |
|---|---|---|---|---|
| **6** | $3^{+0.040}_{0}$ | 4 | 11.5 | — |
| **10** | $5^{+0.065}_{0}$ | 6.5 | 18 | $17^{0}_{-0.5}$ |
| **16** | $6^{+0.065}_{0}$ | 10 | 22 | $22^{0}_{-0.5}$ |

| Bore size \ Symbol | S | | Z | | ZZ | |
|---|---|---|---|---|---|---|
| | Without magnet | Built-in magnet | Without magnet | Built-in magnet | Without magnet | Built-in magnet |
| **6** | 21 | 26 | 34 | 39 | 38 | 43 |
| **10** | 30.5 | 35.5 | 44 | 49 | 50.5 | 55.5 |
| **16** | 34 | 39 | 48 | 53 | 58 | 63 |

### Trunnion: C(D)JP2T6 to 16



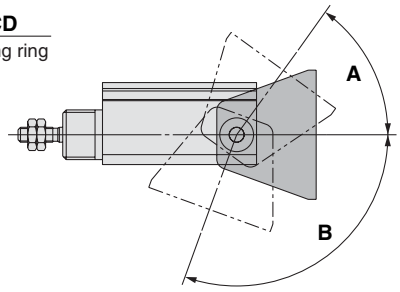

**Mounting dimensions of trunnion bracket**




**Trunnion** (mm)

| Bore size \ Symbol | CD | CH | CK | CT | CU | CX | CY | CZ | Q | T | Z | | ZZ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Without magnet | Built-in magnet | Without magnet | Built-in magnet |
| **6** | 3 | 16 | 4 | 12 | 1.6 | 18 | 3.4 | 26 | 18.5 | 20.4 | 34 | 39 | 38 | 43 |
| **10** | 5 | 20 | 6.5 | 13.5 | 1.6 | 24 | 4.5 | 33 | 20.5 | 23.9 | 44 | 49 | 50.5 | 55.5 |
| **16** | 6 | 25 | 10 | 15 | 2.9 | 29 | 5.5 | 42 | 28 | 31.7 | 48 | 53 | 58 | 63 |

### Rotation angle




| Applicable bore | ø6 | ø10 | ø16 |
|---|---|---|---|
| **A** | 54° | 62° | 55° |
| **B** | 110° | 110° | 102° |

∗ Provided as guidelines.
The values are varied depending on the condition.