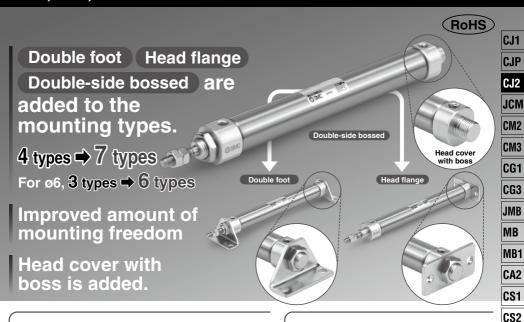
# Air Cylinder

# CJ2 Series

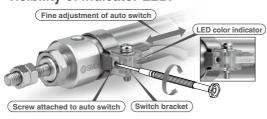
ø6, ø10, ø16



# Easy fine adjustment of auto switch position

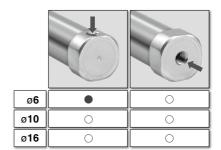
Fine adjustment of the auto switch position is possible by simply loosening the screw attached to the auto switch.

Transparent switch bracket improves visibility of indicator LED.



Head cover port location "Perpendicular to axis" is newly added to Ø6.

Improved piping flexibility





D-□

Technica Data

# Air Cylinder: Built-in Speed Controller Type **Double Acting, Single Rod**

CJ2Z Series ø10, ø16



CJ<sub>1</sub>

**CJP** CJ<sub>2</sub>

JCM

CM<sub>2</sub>

CM3

CG<sub>1</sub>

CG3 JMB

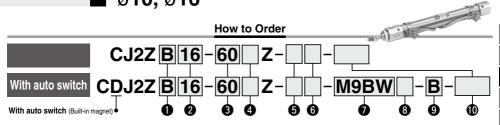
MB

MB1

CA<sub>2</sub>

CS<sub>1</sub>

CS2



#### Mounting

Auto switch

| В | Basic              |
|---|--------------------|
| E | Double-side bossed |
| D | Double clevis      |
| L | Single foot        |
| M | Double foot        |
| F | Rod flange         |
| G | Head flange        |
|   |                    |

\*: Foot/Flange brackets are shipped together with the product, but not assembled

Without auto switch

\* For applicable auto switches

★ Enter the auto switch mounting type (A or B)

refer to the table below

an auto switch is required.

#### A Rore size

| •  | DOIC SIZE |
|----|-----------|
| 10 | 10 mm     |
| 16 | 16 mm     |

4 Head cover port location

| Nil | Perpendicular to axis |  |
|-----|-----------------------|--|
| R   | Axial                 |  |

- \* For double clevis, the product is perpendicular to the cylinder axis.
- \* For double-side bossed, the product is perpendicular to the cylinder axis

#### 8 Number of auto switches

| •   | inder or date entremed |
|-----|------------------------|
| Nil | 2 pcs.                 |
| S   | 1 pc.                  |
| n   | "n" pcs.               |
|     |                        |

| Nil | 2 pcs.   |
|-----|----------|
| S   | 1 pc.    |
| n   | "n" pcs. |
|     |          |

even when a built-in magnet cylinder without

#### Cvlinder standard stroke [mm]

Refer to "Standard Strokes" on page 108.

#### 6 Pivot bracket

| ı | Nil | None   |  |  |  |  |  |  |
|---|-----|--|--|--|--|--|--|--|
|   | N   | Pivot bracket is shipped together with the product |  |  |  |  |  |  |
|   |     |  |  |  |  |  |  |  |

\*: Only for the double clevis type \*: Pivot bracket is shipped together with the product, but not assembled

#### Auto switch mounting type Rail mounting

\*: For rail mounting, screws and nuts for 2 auto switches come with the rail.

Band mounting

\*: Refer to page 148 for auto switch mounting brackets.

#### 6 Rod end bracket

| Nil                     | None                    |  |  |  |  |  |
|-------------------------|-------------------------|--|--|--|--|--|
| V                       | Single knuckle joint    |  |  |  |  |  |
| W**                     | Double knuckle joint    |  |  |  |  |  |
| Т                       | Rod end cap (Flat type) |  |  |  |  |  |
| U Rod end cap (Round to |                         |  |  |  |  |  |
|                         |                         |  |  |  |  |  |

- \*: Rod end bracket is shipped together with the product, but not assembled.
- \*\*: Refer to page 63 for the double knuckle
- joint (with one-touch connecting pin).

### Made to Order

Refer to page 108 for details.

\*: Refer to "Ordering Example of Cylinder Assembly" on page 108.

Applicable Auto Switches/Refer to pages 1575 to 1701 for further information on auto switches.

|             |  | Electrical | ig             | Wiring                     |      | Load vol          | tage         |           | Auto swit | ch model      |           | Lead   | d wir    | e ler   | ngth    | [m]      | Pre-wired  |            |          |   |            |   |            |            |   |      |
|-------------|--|------------|----------------|----------------------------|------|-------------------|--------------|-----------|-----------|---------------|-----------|--------|----------|---------|---------|----------|------------|------------|----------|---|------------|---|------------|------------|---|------|
| Туре        | Special function                           | entry      | ndicator light | (Output)                   |      | DC AC             |              | Band m    | ounting   | Rail mo       | ounting   | 0.5    | 1        | 3       | 5       | None     | connector  | Applica    | ble load |   |            |   |            |            |   |      |
|             |  | Citily     | Indic          | (Output)                   |      | DC                | P AC P       |           | In-line   | Perpendicular | In-line   | (Nil)  | (M)      | (L)     | (Z)     | (N)      | CONTINUE   |            |          |   |            |   |            |            |   |      |
|             |  |            |                | 3-wire (NPN)               |      | 5 V. 12 V         |              | M9NV      | M9N       | M9NV          | M9N       | •      | •        | •       | 0       | _        | 0          | IC circuit |          |   |            |   |            |            |   |      |
| ج ا         |  | Grommet    |                | 3-wire (PNP)               |      | 5 V, 12 V         |              | M9PV      | M9P       | M9PV          | M9P       | •      | •        | •       | 0       | _        | 0          | IC CIICUII |          |   |            |   |            |            |   |      |
| switch      |  |            |                | 2-wire                     |      | 12 V              |              | M9BV      | M9B       | M9BV          | M9B       | •      | •        | •       | 0       | <b>—</b> | 0          |            |          |   |            |   |            |            |   |      |
| S           |  | Connector  |                | 2-wire                     |      | 12 V              |              |           | H7C       | J79C          | _         | •      | <b>—</b> | •       | •       | •        | _          | _          |          |   |            |   |            |            |   |      |
| anto        | Diagnostic indication                      |            |                | 3-wire (NPN)               |      | 5 V, 12 V         |              | M9NWV     | M9NW      | M9NWV         | M9NW      | •      | •        | •       | 0       | _        | 0          | IC circuit | Dalau    |   |            |   |            |            |   |      |
|             |  | 1          | Yes            | 3-wire (PNP)               | 24 V | 5 V, 12 V         | _            | M9PWV     | M9PW      | M9PWV         | M9PW      | •      | •        | •       | 0       | _        | 0          | IC CIICUII | Relay,   |   |            |   |            |            |   |      |
| state       | (2-color indicator)                        |            |                |                            | ΙÍ   | ΙÍ                | ΙÍ           | ΙÍ        |           |               | 2-wire    |        | 12 V     | 12 V    | M9BWV   | M9BW     | M9BWV      | M9BW       | •        | • | •          | 0 | _          | 0          | _ | ] [[ |
|             | 14/-4                                      | Grommet    |                | 3-wire (NPN)               |      | 5 V, 12 V         | 5 V, 12 V    | 5 V, 12 V | 5 V, 12 V | 10.1/         | V 10 V    | 12 V   | M9NAV*1  | M9NA*1  | M9NAV*1 | M9NA*1   | 0          | 0          | •        | 0 | <b> </b> — | 0 | IC circuit | ]          |   |      |
| Solid       | Water resistant<br>(2-color indicator)     |            |                | 3-wire (PNP)               |      |                   |              |           |           | J V, 12 V     | J V, 12 V |        |          | M9PAV*1 | M9PA*1  | M9PAV*1  | M9PA*1     | 0          | 0        | • | 0          | _ | 0          | IC CIICUII |   |      |
| Ň           | (2-color indicator)                        |            |                | 2-wire                     |      | 12 V              | ]            | ĺ         | M9BAV*1   | M9BA*1        | M9BAV*1   | M9BA*1 | 0        | 0       | •       | 0        | _          | 0          | _        | ] |            |   |            |            |   |      |
|             | With diagnostic output (2-color indicator) |            |                | 4-wire (NPN)               |      | 5 V, 12 V         |              | _         | H7NF      | _             | F79F      | •      | _        | •       | 0       | _        | 0          | IC circuit |          |   |            |   |            |            |   |      |
| r c         |  |            | Yes            | 3-wire<br>(NPN equivalent) | _    | 5 V               | _            | A96V      | A96       | A96V          | A96       | •      | _        | •       | _       | _        | _          | IC circuit | _        |   |            |   |            |            |   |      |
| \ <u>\=</u> | grommet Grommet                            | res        |                | 1                          | _    | 200 V             | _            | _         | A72       | A72H          | •         | _      | •        | _       | _       | _        |            |            |          |   |            |   |            |            |   |      |
|             |  |            |                |                            |      |                   |              | 100 V     | A93V*2    | A93           | A93V*2    | A93    | •        | •       | •       | •        | _          | _          | _        |   |            |   |            |            |   |      |
| 를           |  | No         |                |                            |      | 12 V 100 V or les | A90V         | A90       | A90V      | A90           | •         | _      | •        | _       | _       | _        | IC circuit | Relay,     |          |   |            |   |            |            |   |      |
| 8           |  | [ ]        |                | Ye                         | Yes  | 2-wire            | 24 V         | / 12 V    | _         | _             | C73C      | A73C   | _        | •       | _       | •        | •          | •          | _        | _ | PLC        |   |            |            |   |      |
| Reed        |  | Connector  | No             |                            |      |                   | 24 V or less | _         | C80C      | A80C          | _         | •      | _        | •       | •       | •        | _          | IC circuit | ] [      |   |            |   |            |            |   |      |
|             | Diagnostic indication (2-color indicator)  | Grommet    | Yes            |                            |      | _                 | _            | _         | _         | A79W          | _         | •      | _        | •       | _       | _        | _          | _          |          |   |            |   |            |            |   |      |

- \*1: Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Please contact SMC regarding water resistant types with the above model numbers.
- \*2: 1 m type lead wire is only applicable to D-A93
- \*: Lead wire length symbols: 0.5 m----- Nil (Example) M9NW 5 m····· Z (Example) M9NWZ 1 m----- M (Example) M9NWM 3 m---- L (Example) M9NWL None----- N (Example) H7CN
- \*: Since there are other applicable auto switches than listed, refer to page 149 for details.
- \*: Solid state auto switches marked with "O" are produced upon receipt of order.

  \*: The D-A9□M9□A7□/A80□/F7□J7□ auto switches are shipped together, but not assembled. (For band mounting, only auto switch mounting brackets are assembled before being shipped.)

D-□ -X□

#### Space-saving air cylinder with speed controller built-in cylinder cover



#### Symbol

Double acting, Single rod, Rubber bumper





Made to Order: Individual Specifications (For details, refer to page 150.)

| Symbol | Specifications |             |
|--------|----------------|-------------|
| -X446  | PTFE grease    | PTFE grease |

#### Made to Order

Click here for details

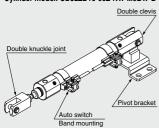
| Click here for details                    |                         |  |  |  |  |  |  |
|---|-------------------------|--|--|--|--|--|--|
| Symbol Specifications                     |                         |  |  |  |  |  |  |
| -XA□                                      | Change of rod end shape |  |  |  |  |  |  |
| -XC51                                     | With hose nipple        |  |  |  |  |  |  |
| -XC85 Grease for food processing equipmen |                         |  |  |  |  |  |  |

### **⚠** Precautions

Refer to page 152 before handling.

#### Ordering Example of Cylinder Assembly

#### Cylinder model: CDJ2ZD16-60Z-NW-M9BW-B



Mounting D: Double clevis
Pivot bracket N: Yes
Rod end bracket W: Double knuckle joint
Auto switch D-M9BW: 2 pcs.
Auto switch mounting B: Band mounting

#### **Specifications**

| Bore size [mm]                | 10   | 16            |  |  |  |
|-------------------------------|--|---------------|--|--|--|
| Action                        | Double actin   | g, Single rod |  |  |  |
| Fluid                         | А  | ir            |  |  |  |
| Proof pressure                | 1 N  | 1Pa           |  |  |  |
| Maximum operating pressure    | 0.7  | MPa           |  |  |  |
| Minimum operating pressure    | 0.06 MPa   |               |  |  |  |
| Ambient and fluid temperature | Without auto switch: -10°C to 70°C (No freezing) With auto switch: -10°C to 60°C (No freezing) |               |  |  |  |
| Cushion                       | Rubber   | bumper        |  |  |  |
| Lubrication                   | Not required   | d (Non-lube)  |  |  |  |
| Stroke length tolerance       | +1<br>0  |               |  |  |  |
| Speed controller              | Built-in   |               |  |  |  |
| Piston speed                  | 50 to 750 mm/s   |               |  |  |  |
| Allowable kinetic energy      | energy 0.035 J 0.090 J   |               |  |  |  |

#### **Standard Strokes**

|           |   | [mm]                          |
|-----------|---|-------------------------------|
| Bore size | Standard stroke                             | Maximum manufacturable stroke |
| 10        | 15, 30, 45, 60, 75, 100, 125, 150           | 400                           |
| 16        | 15, 30, 45, 60, 75, 100, 125, 150, 175, 200 | 400                           |

- \*: Manufacture of intermediate strokes in 1 mm increments is possible. (Spacers are not used.)
- Applicable strokes should be confirmed according to the usage. For details, refer to "Air Cylinders Model Selection" on front matter pages. In addition, the products that exceed the standard stroke might not be able to fulfill the specifications due to the deflection etc.

#### Mounting and Accessories/Refer to page 42 for the list of brackets and page 63 for details about part numbers and dimensions

| •…       | Mounted on the product. ○…Can be                           | e ordered wi | thin the cylir | nder model. | △···Order     | separately.                            |
|----------|--|--------------|----------------|-------------|---------------|--|
|          | Mounting   | Basic        | Foot           | Flange      | Double clevis | Double clevis<br>(including T-bracket) |
| 5        | Mounting nut   | •            | •              | •           | _             | _                                      |
| Standard | Rod end nut  | •            | •              | •           | •             | •                                      |
| ş        | Clevis pin (including retaining rings)                     | _            | _              | _           | •             | •                                      |
|          | Single knuckle joint                                       | 0            | 0              | 0           | 0             | 0                                      |
| ڃ        | Double knuckle joint (including a pin and retaining rings) | 0            | 0              | 0           | 0             | 0                                      |
| Option   | Double knuckle joint (With one-touch connecting pin)       | Δ            | Δ              | Δ           | Δ             | 0                                      |
| 0        | Rod end cap (Flat/Round type)                              | 0            | 0              | 0           | 0             | 0                                      |
|          | Pivot bracket (T-bracket)                                  | _            | _              | _           | 0             | •                                      |

Stainless steel mounting brackets and accessories are also available.
 Refer to page 63-1 for details.

#### Mounting Brackets/Part No.

| Maunting brookst            | Bore siz | ze [mm]  |
|-----------------------------|----------|----------|
| Mounting bracket            | 10       | 16       |
| Foot                        | CJ-L010C | CJ-L016C |
| Flange                      | CJ-F010C | CJ-F016C |
| Pivot bracket (T-bracket)*1 | CJ-T010C | CJ-T016C |

<sup>\*1:</sup> The pivot bracket (T-bracket) is used with double clevis (D).

#### Refer to pages 142 to 149 for cylinders with auto switches.

- Auto switch proper mounting position (detection at stroke end) and its mounting height
- · Minimum stroke for auto switch mounting
- Operating range
- · Auto switch mounting brackets/Part no.



Pivot bracket, double knuckle joint and auto switch are shipped together with the product, but not assembled.

# Air Cylinder: Built-in Speed Controller Type Double Acting, Single Rod CJ2Z Series

#### Weights

|                               |  |    | [g] |
|-------------------------------|--|----|-----|
|                               | Bore size [mm]                                       | 10 | 16  |
| Danie weink                   | Basic  | 36 | 61  |
| Basic weight (When the stroke | Axial piping   | 36 | 61  |
| is zero)                      | Double clevis (including clevis pin)                 | 40 | 68  |
| 13 2610)                      | Head-side bossed                                     | 37 | 63  |
| Additional weight             | per 15 mm of stroke                                  | 4  | 7   |
|                               | Single foot  | 8  | 25  |
| Mounting bracket              | Double foot  | 16 | 50  |
| weight                        | Rod flange   | 5  | 13  |
|                               | Head flange  | 5  | 13  |
|                               | Single knuckle joint                                 | 17 | 23  |
|                               | Double knuckle joint (including knuckle pin)         | 25 | 21  |
| Accessories                   | Double knuckle joint (With one-touch connecting pin) | 26 | 22  |
|                               | Rod end cap (Flat type)                              | 1  | 2   |
|                               | Rod end cap (Round type)                             | 1  | 2   |
|                               | Pivot bracket (T-bracket)                            | 32 | 50  |

- \*: Mounting nut and rod end nut are included in the basic weight.
- \*: Mounting nut is not included in the basic weight for the double clevis.

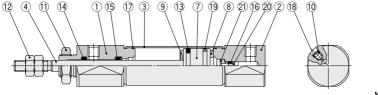
#### Calculation:

Example) CJ2ZL10-45Z

- Basic weight ...... ...... 36 (ø10)
- Additional weight ----- 4/15 stroke Cylinder stroke ----- 45 stroke
- Mounting bracket weight ··· 8 (Single foot)

36 + 4/15 x 45 + 8 = **56 g** 

### Construction (Not able to disassemble)





With auto switch

#### **Component Parts**

| No. | Description             | Material        | Note |
|-----|-------------------------|-----------------|------|
| 1   | Rod cover               | Aluminum alloy  |      |
| 2   | Head cover              | Aluminum alloy  |      |
| 3   | Cylinder tube           | Stainless steel |      |
| 4   | Piston rod              | Stainless steel |      |
| 5   | Piston A                | Aluminum alloy  |      |
| 6   | Piston B                | Aluminum alloy  |      |
| 7   | Piston                  | Aluminum alloy  |      |
| 8   | Bumper A                | Urethane        |      |
| 9   | Bumper B                | Urethane        |      |
| 10  | Speed controller needle | Carbon steel    |      |
| 11  | Mounting nut            | Rolled steel    |      |

| No. | Description       | Material          | Note |
|-----|-------------------|-------------------|------|
| 12  | Rod end nut       | Rolled steel      |      |
| 13  | Piston seal       | NBR               |      |
| 14  | Rod seal          | NBR               |      |
| 15  | Check seal A      | NBR               |      |
| 16  | Check seal B      | NBR               |      |
| 17  | Tube gasket       | NBR               |      |
| 18  | Needle seal       | NBR               |      |
| 19  | Wear ring         | Resin             |      |
| 20  | Check seal sleeve | Aluminum alloy    |      |
| 21  | Retaining ring    | Carbon tool steel |      |
| 22  | Magnet            | _                 |      |

D-□ -X□

CJ1 CJP CJ2 JCM CM2 СМЗ CG1

CG3

JMB

MB

MB1 CA2

CS<sub>1</sub> CS2

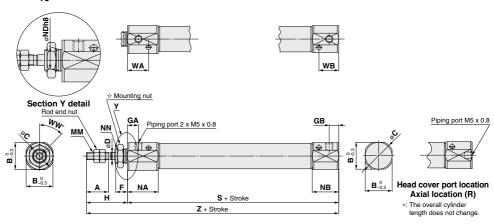
Technical Data



### CJ2Z Series

#### Basic (B)

# CJ2ZB 10 - Stroke Head cover port location Z

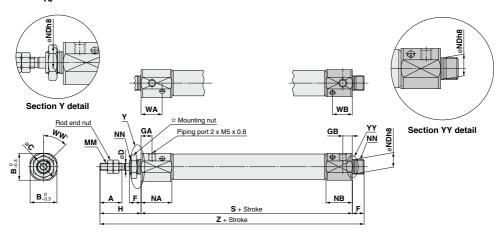


☆ For details of the mounting nut, refer to page 63.

|           |    |      |    |   |   |     |     |    |          |    |    |          |           |      |      |    |    | [mm] |
|-----------|----|------|----|---|---|-----|-----|----|----------|----|----|----------|-----------|------|------|----|----|------|
| Bore size | Α  | В    | С  | D | F | GA  | GB  | Н  | MM       | NA | NB | NDh8     | NN        | WA   | WB   | ww | S  | Z    |
| 10        | 15 | 15   | 17 | 4 | 8 | 7.5 | 6.5 | 28 | M4 x 0.7 | 21 | 18 | 8_0_022  | M8 x 1.0  | 14.4 | 13.5 | 45 | 63 | 91   |
| 16        | 15 | 18.3 | 20 | 5 | 8 | 7.5 | 6.5 | 28 | M5 x 0.8 | 21 | 18 | 10_0.022 | M10 x 1.0 | 14.4 | 13.5 | 45 | 64 | 92   |

#### Double-side Bossed (E)

# CJ2ZE 10 - Stroke Z



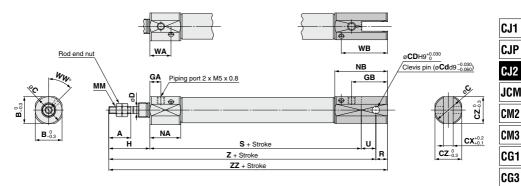
 $\dot{\boldsymbol{x}}$  For details of the mounting nut, refer to page 63.

| A I OI details o | i iiie ii | iounini | y mut, i | eiei io | page | 55. |     |    |          |    |    |          |           |      |      |    |    | [mm] |
|------------------|-----------|---------|----------|---------|------|-----|-----|----|----------|----|----|----------|-----------|------|------|----|----|------|
| Bore size        | Α         | В       | С        | D       | F    | GA  | GB  | Н  | MM       | NA | NB | NDh8     | NN        | WA   | WB   | ww | S  | Z    |
| 10               | 15        | 15      | 17       | 4       | 8    | 7.5 | 6.5 | 28 | M4 x 0.7 | 21 | 18 | 8_0.022  | M8 x 1.0  | 14.4 | 13.5 | 45 | 63 | 99   |
| 16               | 15        | 18.3    | 20       | 5       | 8    | 7.5 | 6.5 | 28 | M5 x 0.8 | 21 | 18 | 10_0.022 | M10 x 1.0 | 14.4 | 13.5 | 45 | 64 | 100  |

# Air Cylinder: Built-in Speed Controller Type Double Acting, Single Rod CJ2Z Series

#### Double Clevis (D)

# CJ2ZD 10 - Stroke Z

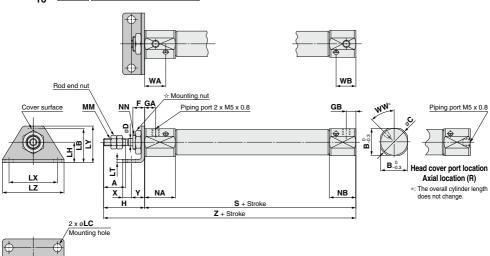


\*: A clevis pin and retaining rings are included.

| Во | ore size | Α  | В    | С  | CD  | СХ  | CZ   | D | GA  | GB   | Н  | MM       | NA | NB | R | U  | WA   | WB   | ww | S  | Z   | ZZ  |
|----|----------|----|------|----|-----|-----|------|---|-----|------|----|----------|----|----|---|----|------|------|----|----|-----|-----|
|    | 10       | 15 | 15   | 17 | 3.3 | 3.2 | 15   | 4 | 7.5 | 19.5 | 28 | M4 x 0.7 | 21 | 31 | 5 | 8  | 14.4 | 26.5 | 45 | 63 | 99  | 104 |
|    | 16       | 15 | 18.3 | 20 | 5   | 6.5 | 18.3 | 5 | 7.5 | 24.5 | 28 | M5 x 0.8 | 21 | 36 | 8 | 10 | 14.4 | 31.5 | 45 | 64 | 102 | 110 |

### Single Foot (L)

CJ2ZL  $_{16}^{10}$  - Stroke Head cover port location Z



☆ For details of the mounting nut, refer to page 63.

|           |    |      | 9  | , . |   |     | g   |    |    |     |    |     |    |      |    |          |    |    |           |      |      |    |    |   |   | [mm] |
|-----------|----|------|----|-----|---|-----|-----|----|----|-----|----|-----|----|------|----|----------|----|----|-----------|------|------|----|----|---|---|------|
| Bore size | Α  | В    | С  | D   | F | GA  | GB  | Н  | LB | LC  | LH | LT  | LX | LY   | LZ | MM       | NA | NB | NN        | WA   | WB   | ww | S  | Х | Υ | Z    |
| 10        | 15 | 15   | 17 | 4   | 8 | 7.5 | 6.5 | 28 | 15 | 4.5 | 9  | 1.6 | 24 | 16.5 | 32 | M4 x 0.7 | 21 | 18 | M8 x 1.0  | 14.4 | 13.5 | 45 | 63 | 5 | 7 | 91   |
| 16        | 15 | 18.3 | 20 | 5   | 8 | 7.5 | 6.5 | 28 | 23 | 5.5 | 14 | 2.3 | 33 | 25   | 42 | M5 x 0.8 | 21 | 18 | M10 x 1.0 | 14.4 | 13.5 | 45 | 64 | 6 | 9 | 92   |

111

D
-X

Technical Data

[mm] JMB

MB MB1

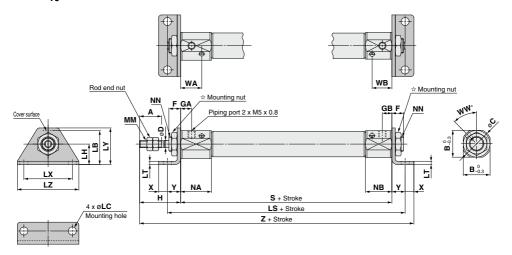
CA2

CS1

# CJ2Z Series

#### **Double Foot (M)**

# CJ2ZM 10 - Stroke Z

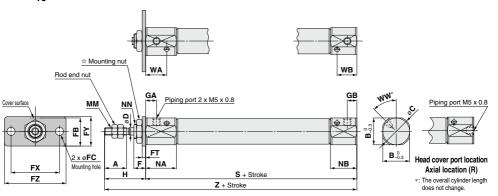


 $\dot{\propto}$  For details of the mounting nut, refer to page 63.

| Bore size | Α  | В    | С  | D | F | GA  | GB  | Н  | LB | LC  | LH | LS | LT  | LX | LY   | LZ | MM       | NA | NB | NN        | WA   | WB   | ww | S  | Х | Υ | Z   |
|-----------|----|------|----|---|---|-----|-----|----|----|-----|----|----|-----|----|------|----|----------|----|----|-----------|------|------|----|----|---|---|-----|
| 10        | 15 | 15   | 17 | 4 | 8 | 7.5 | 6.5 | 28 | 15 | 4.5 | 9  | 77 | 1.6 | 24 | 16.5 | 32 | M4 x 0.7 | 21 | 18 | M8 x 1.0  | 14.4 | 13.5 | 45 | 63 | 5 | 7 | 103 |
| 16        | 15 | 18.3 | 20 | 5 | 8 | 7.5 | 6.5 | 28 | 23 | 5.5 | 14 | 82 | 2.3 | 33 | 25   | 42 | M5 x 0.8 | 21 | 18 | M10 x 1.0 | 14.4 | 13.5 | 45 | 64 | 6 | 9 | 107 |

#### Rod Flange (F)

# CJ2ZF $^{10}_{16}$ - Stroke Head cover port location Z



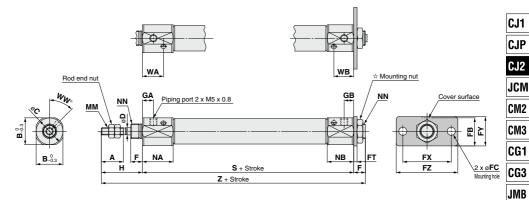
☆ For details of the mounting nut, refer to page 63.

|           |    |      |    | , | ·- · |    |     |     |    |    |    |     |     |    |          |    |    |           |      |      |    |    | [mm] |
|-----------|----|------|----|---|------|----|-----|-----|----|----|----|-----|-----|----|----------|----|----|-----------|------|------|----|----|------|
| Bore size | Α  | В    | С  | D | F    | FB | FC  | FT  | FX | FY | FZ | GA  | GB  | Н  | MM       | NA | NB | NN        | WA   | WB   | ww | S  | Z    |
| 10        | 15 | 15   | 17 | 4 | 8    | 13 | 4.5 | 1.6 | 24 | 14 | 32 | 7.5 | 6.5 | 28 | M4 x 0.7 | 21 | 18 | M8 x 1.0  | 14.4 | 13.5 | 45 | 63 | 91   |
| 16        | 15 | 18.3 | 20 | 5 | 8    | 19 | 5.5 | 2.3 | 33 | 20 | 42 | 7.5 | 6.5 | 28 | M5 x 0.8 | 21 | 18 | M10 x 1.0 | 14.4 | 13.5 | 45 | 64 | 92   |

# Air Cylinder: Built-in Speed Controller Type Double Acting, Single Rod CJ2Z Series

#### Head Flange (G)

# CJ2ZG $^{10}_{16}$ - Stroke Z



| × roi details o | ıııeı | Hount | ing m | at, rer | ei io i | Jaye C |     |     |    |    |    |     |     |    |          |    |    |           |      |      |    |    | [mm |
|-----------------|-------|-------|-------|---------|---------|--------|-----|-----|----|----|----|-----|-----|----|----------|----|----|-----------|------|------|----|----|-----|
| Bore size       | Α     | В     | С     | D       | F       | FB     | FC  | FT  | FX | FY | FZ | GA  | GB  | Н  | MM       | NA | NB | NN        | WA   | WB   | ww | S  | Z   |
| 10              | 15    | 15    | 17    | 4       | 8       | 13     | 4.5 | 1.6 | 24 | 14 | 32 | 7.5 | 6.5 | 28 | M4 x 0.7 | 21 | 18 | M8 x 1.0  | 14.4 | 13.5 | 45 | 63 | 99  |
| 16              | 15    | 18.3  | 20    | 5       | 8       | 19     | 5.5 | 2.3 | 33 | 20 | 42 | 7.5 | 6.5 | 28 | M5 x 0.8 | 21 | 18 | M10 x 1.0 | 14.4 | 13.5 | 45 | 64 | 100 |

D-□ -**X**□

MB MB1 CA2 CS1 CS2

Technical Data

**SMC**