

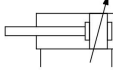
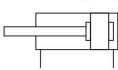
Specifications



Symbol

Double acting, Single rod

Air cushion



Refer to pages 262 to 266 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.



Made to Order: Individual Specifications
(For details, refer to page 267.)

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

Made to Order

[Click here for details](#)

| Symbol | Specifications |
|--------|---|
| -XA□ | Change of rod end shape |
| -XB6 | Heat resistant cylinder (-10 to 150°C) |
| -XB7 | Cold resistant cylinder (-40 to 70°C) ^{*1} |
| -XB9 | Low speed cylinder (10 to 50 mm/s) ^{*1} |
| -XB12 | External stainless steel cylinder ^{*2} |
| -XB13 | Low speed cylinder (5 to 50 mm/s) ^{*2} |
| -XC3 | Special port location |
| -XC4 | With heavy duty scraper |
| -XC5 | Heat resistant cylinder (-10 to 110°C) |
| -XC6 | Made of stainless steel |
| -XC8 | Adjustable stroke cylinder/Adjustable extension type |
| -XC9 | Adjustable stroke cylinder/Adjustable retraction type |
| -XC10 | Dual stroke cylinder/Double rod type ^{*1} |
| -XC11 | Dual stroke cylinder/Single rod type |
| -XC12 | Tandem cylinder ^{*1} |
| -XC13 | Auto switch rail mounting |
| -XC20 | Head cover axial port |
| -XC22 | Fluororubber seal |
| -XC25 | No fixed throttle of connection port ^{*1} |
| -XC27 | Double clevis and double knuckle pins made of stainless steel |
| -XC29 | Double knuckle joint with spring pin |
| -XC35 | With coil scraper ^{*1} |
| -XC52 | Mounting nut with set screw |
| -XC85 | Grease for food processing equipment |

^{*1} Rubber bumper only.

^{*2} The shape is the same as the current product.

| Bore size (mm) | | 20 | 25 | 32 | 40 | |
|-------------------------------|---|---------------|---------------|---------------|---------------|---------------|
| Type | Pneumatic | | | | | |
| Action | Double acting, Single rod | | | | | |
| Fluid | Air | | | | | |
| Proof pressure | 1.5 MPa | | | | | |
| Maximum operating pressure | 1.0 MPa | | | | | |
| Minimum operating pressure | 0.05 MPa | | | | | |
| Ambient and fluid temperature | Without auto switch: -10°C to 70°C (No freezing) With auto switch: -10°C to 60°C | | | | | |
| Lubrication | Not required (Non-lube) | | | | | |
| Stroke length tolerance | + ⁻¹ / ₀ mm | | | | | |
| Piston speed | 50 to 750 mm/s | | | | | |
| Cushion | Rubber bumper, Air cushion | | | | | |
| Allowable kinetic energy | Rubber bumper | Male thread | 0.27 J | 0.4 J | 0.65 J | 1.2 J |
| | | Female thread | 0.11 J | 0.18 J | 0.29 J | 0.52 J |
| | Air cushion (Effective cushion length (mm)) | Male thread | 0.54 J (11.0) | 0.78 J (11.0) | 1.27 J (11.0) | 2.35 J (11.8) |
| | | Female thread | 0.11 J | 0.18 J | 0.29 J | 0.52 J |

* Operate the cylinder with in the allowable kinetic energy.

Standard Strokes

| Bore size (mm) | Standard stroke (mm) ^{Note 1)} | Maximum manufacturable stroke (mm) |
|----------------|--|------------------------------------|
| 20 | 25, 50, 75, 100, 125, 150, 200, 250, 300 | 1000 |
| 25 | | 1500 |
| 32 | | 2000 |
| 40 | | |

Note 1) Intermediate strokes not listed above are produced upon receipt of order.

Manufacture of intermediate strokes in 1 mm increments is possible. (Spacers are not used.)

Note 2) 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.

Option: Ordering Example of Cylinder Assembly

Cylinder model: CDM2C20-50Z-NV-M9BW

Mounting C: Single clevis
Pivot bracket N: Yes
Rod end bracket V: Single knuckle joint
Auto switch D-M9BW: 2 pcs.

- * Pivot bracket, single knuckle joint and auto switch are shipped together with the product, but not assembled.
- * Pivot bracket is available only for C, T, U, E, V, UZ mounting types.
- * No bracket is provided for the female rod end.

CJ1

CJP

CJ2

JCM

CM2

CM3

CG1

CG3

JMB

MB

MB1

CA2

CS1

CS2

D-□

-X□

Technical Data