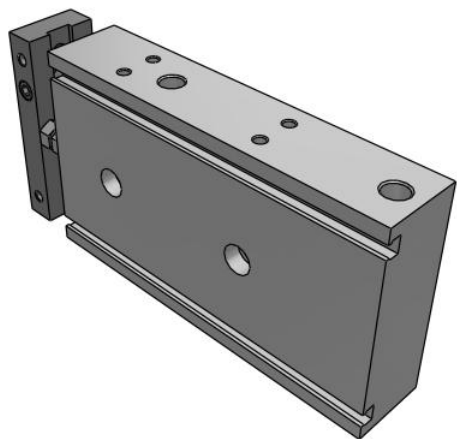
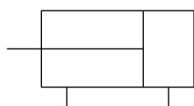




## CXSM, Dual Piston Rods, Slide Bearing CXSM25-70

### Datasheet

Series CXS is available in six bore sizes and stroke lengths up to 100mm. This series is very compact and has a very accurate non-rotating specification. It is suited for accurate pick-and-place applications or light duty material handling. The CXS can be used with either reed or solid state switches. Available in clean room versions.



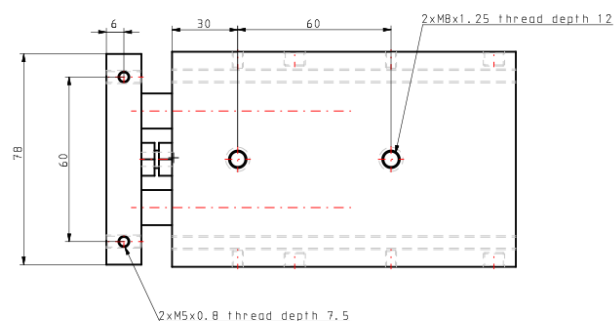
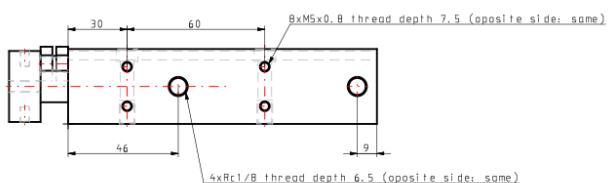
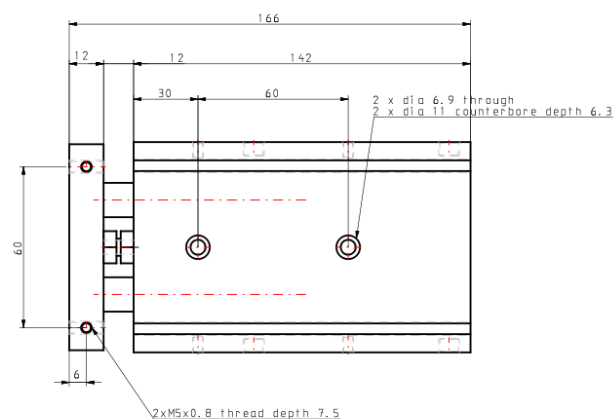
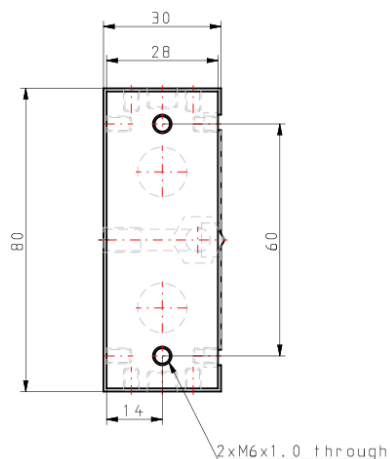
Double-acting, single-rod cylinder

### Standard specifications

|                                                         |                                           |
|---------------------------------------------------------|-------------------------------------------|
| Thread port                                             | M5 (Rc (PT) for sizes 25 to 32)           |
| Bore Size                                               | 25mm                                      |
| Lube-retainer                                           | Without Stable Lubrication Function       |
| Stroke                                                  | 70mm                                      |
| Auto Switch                                             | No Switch                                 |
| Lead Wire or Prewired Connector                         | 0.5m [Or None in the Case of No Switch]   |
| Number                                                  | 2 pcs. [Or None in the Case of No Switch] |
| Pressure medium                                         | Compressed Air                            |
| Maximum temperature of pressure medium with magnet      | 60 °C                                     |
| Minimum temperature of pressure medium with magnet      | -10 °C [without condensation]             |
| Maximum operating pressure                              | 0.70 MPa                                  |
| Minimum operating pressure                              | 0.05 MPa                                  |
| Proof pressure                                          | 1.05 MPa                                  |
| Maximum ambient temperature with magnet                 | 60 °C                                     |
| Minimum ambient temperature with magnet                 | -10 °C                                    |
| Numero of pneumatic connections                         | 2 pcs.                                    |
| Pneumatic input connection                              | Rc 1/8                                    |
| Pneumatic output connection                             | Rc 1/8                                    |
| Mode of operation of drive                              | Double acting                             |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 491 N                                     |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 378 N                                     |

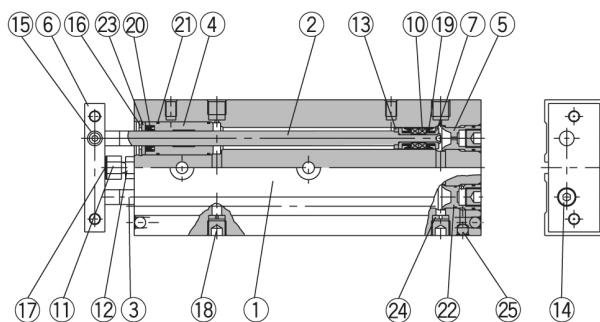
|                                   |               |
|-----------------------------------|---------------|
| Maximum piston speed              | 600 mm/s      |
| Type of cushioning                | Rubber bumper |
| Maximum stroke reduction per side | 5 mm          |
| Tolerance of torsion              | 0.2°          |
| Weight                            | 0.950 Kg      |

## Dimensions

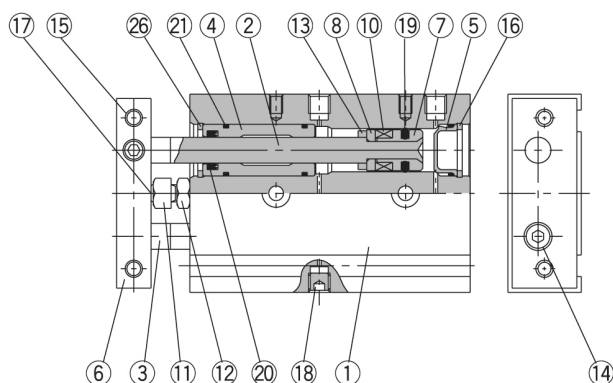


## Constructions

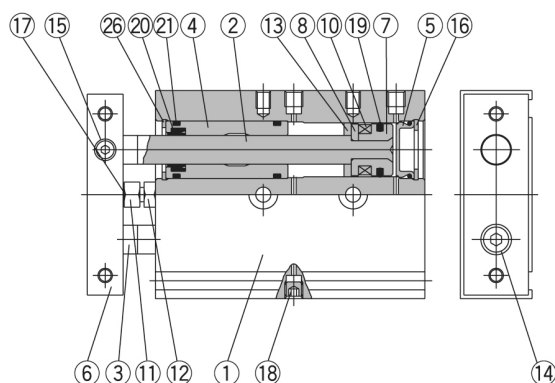
**CXSM6**



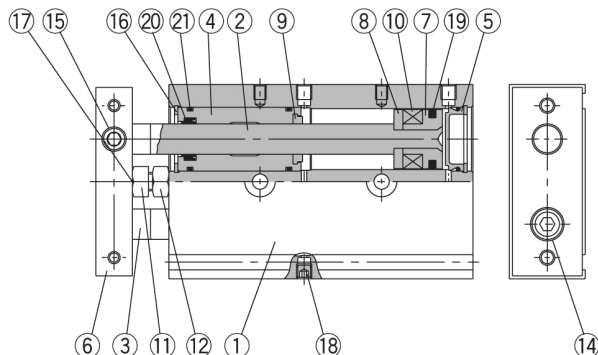
**CXSM10**



**CXSM15**



**CXSM20 to 32**



### Parts list

| No. | Description                   | Material                             | Note               |
|-----|-------------------------------|--------------------------------------|--------------------|
| 1   | Housing                       | Aluminum alloy                       | Hard anodized      |
| 2   | Piston rod A                  | Carbon steel <small>Note 1)</small>  | Hard chrome plated |
| 3   | Piston rod B                  | Carbon steel <small>Note 1)</small>  | Hard chrome plated |
| 4   | Rod cover/Bearing             | Aluminum alloy                       |                    |
| 5   | Head cover                    | Special steel <small>Note 2)</small> |                    |
| 6   | Plate                         | Aluminum alloy                       | Hard anodized      |
| 7   | Piston A                      | Aluminum alloy                       | Chromated          |
| 8   | Piston B                      | Aluminum alloy                       | Chromated          |
| 9   | Bumper A                      | Polyurethane                         |                    |
| 10  | Magnet                        | Magnetic material                    |                    |
| 11  | Bumper bolt                   | Carbon steel                         | Nickel plated      |
| 12  | Hexagon nut                   | Carbon steel                         | Nickel plated      |
| 13  | Bumper B                      | Polyurethane                         |                    |
| 14  | Hexagon socket head cap screw | Chromium steel                       | Nickel plated      |
| 15  | Hexagon socket head set screw | Chromium steel                       | Nickel plated      |
| 16  | Snap ring                     | Special steel                        | Nickel plated      |



Note 1) Stainless steel for CXSM6.

Note 2) Anodized aluminum alloy for CXSM6.

### Parts list

| No. | Description   | Material       | Note               |
|-----|---------------|----------------|--------------------|
| 17  | Bumper        | Polyurethane   |                    |
| 18  | Plug          | Chromium steel | Nickel plated      |
| 19  | Piston seal   | NBR            |                    |
| 20  | Rod seal      | NBR            |                    |
| 21  | O-ring        | NBR            |                    |
| 22  | Head cover B  | Aluminum alloy | Nickel plated      |
| 23  | Seal retainer | Aluminum alloy |                    |
| 24  | Port spacer   | Aluminum alloy |                    |
| 25  | Steel ball    | Special steel  | Hard chrome plated |
| 26  | Snap ring B   | Special steel  | Nickel plated      |

## Additional information

Catalogue

[CXS\\_EU.pdf](#)