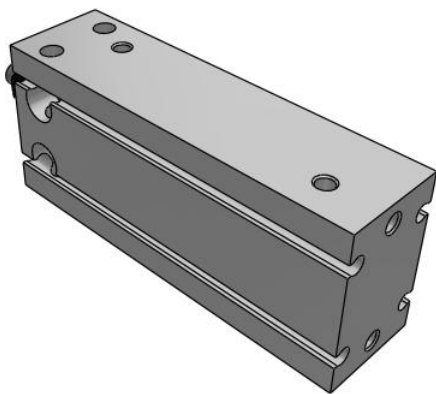


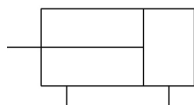


## C(D)U, Free Mount Cylinder, Double Acting CDU20-50D

Datasheet

### General series information

- Bore sizes from 6mm to 32mm available
- Stroke lengths up to 50mm
- Any surfaces can be used for mounting
- Space saving
- Auto-switch capable

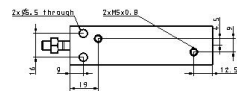
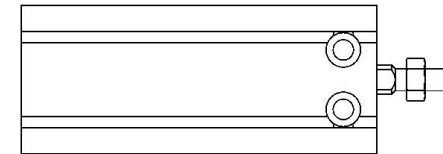
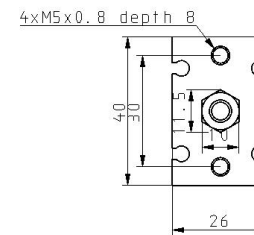
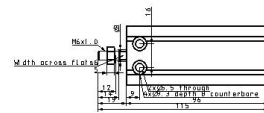
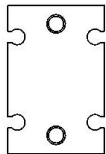


Double-acting, single-rod cylinder

### Standard specifications

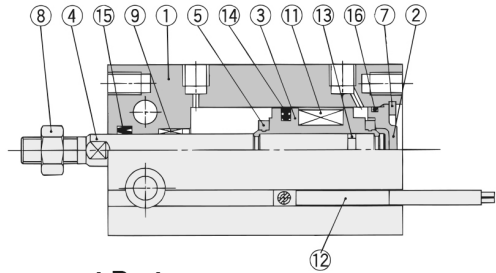
|                                                         |                                           |
|---------------------------------------------------------|-------------------------------------------|
| Magnet                                                  | D (Built-in Magnet)                       |
| Bore Size                                               | 20 mm                                     |
| Port Thread                                             | M5x0.8; Rc1/8 for ø32                     |
| Stroke                                                  | 50 mm                                     |
| Auto Switch                                             | No Switch                                 |
| Lead Wire or Prewired Connector                         | 0.5 m (Or None in the Case of No Switch)  |
| Number                                                  | 2 pcs. (Or None in the Case of No Switch) |
| Maximum operating pressure                              | 0.7 MPa                                   |
| Minimum operating pressure                              | 0.05 MPa                                  |
| Proof pressure                                          | 1.05 MPa                                  |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 157 N                                     |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 132 N                                     |
| Type of cushioning                                      | Rubber Bumper                             |
| Piston rod end                                          | Male Thread                               |
| Lubrication                                             | Non-lube                                  |
| Fluid                                                   | Air                                       |
| Ambient and fluid temperature                           | -10 - 60 °C                               |
| Thread Tolerance                                        | JIS Class2                                |

|              |               |
|--------------|---------------|
| Piston speed | 50 - 500 mm/s |
| Weight       | 0.231 Kg      |



Constructions

ø16 to ø32 With auto switch



Component Parts

| No. | Description   | Material          | Note                                 |
|-----|---------------|-------------------|--------------------------------------|
| 1   | Cylinder tube | Aluminum alloy    | Hard anodized                        |
| 2   | Head cover    | Brass             | ø6 to ø10, Electroless nickel plated |
|     |               | Aluminum alloy    | ø16 to ø32, Clear chromated          |
| 3   | Piston        | Brass             | ø6 to ø10                            |
|     |               | Aluminum alloy    | ø16 to ø32, Chromated                |
| 4   | Piston rod    | Stainless steel   |                                      |
| 5   | Bumper A      | Urethane          |                                      |
| 6   | Bumper B      | Urethane          |                                      |
| 7   | Snap ring     | Carbon tool steel | Phosphate coated                     |

Component Parts

| No. | Description   | Material                       | Note          |
|-----|---------------|--------------------------------|---------------|
| 8   | Rod end nut   | Carbon steel                   | Nickel plated |
| 9   | Bushing       | Oil-impregnated sintered alloy |               |
| 10  | Magnet holder | Brass                          | ø6            |
| 11  | Magnet        | Magnetic material              |               |
| 12  | Auto switch   | —                              |               |
| 13  | Piston gasket | NBR                            |               |
| 14* | Piston seal   |                                |               |
| 15* | Rod seal      |                                |               |
| 16* | Gasket        |                                |               |

## Additional information

Catalogue

[CU\\_B\\_EU.pdf](#)

Operation manuals

[OM\\_CU\\_OM0002EN-A.pdf](#)