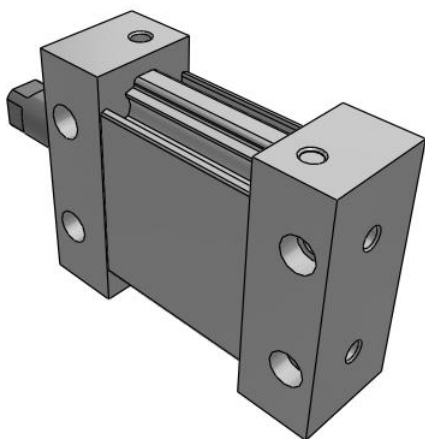


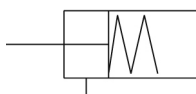


## M(D)U Plate Cylinder, Single Acting w/Auto Switch Mounting Groove MDUB25-10TZ

Datasheet

### General series information

- Plate Cylinder, Single Acting, Single Rod.
- Reduced labour when mounting the switch.
- Auto-switch doesn't protrude.
- It's possible to mount the autoswitches in four directions.
- A maximum 62% width reduction.

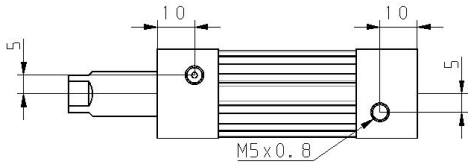
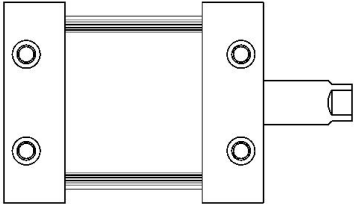
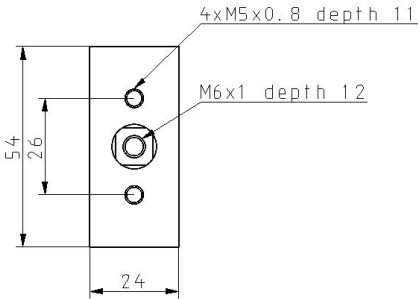
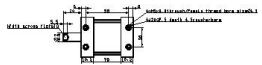
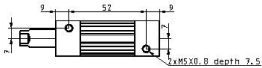
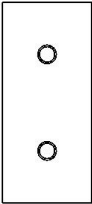


Single-acting cylinder, single piston rod, stroke  
by spring, return stroke by air pressure

### Standard specifications

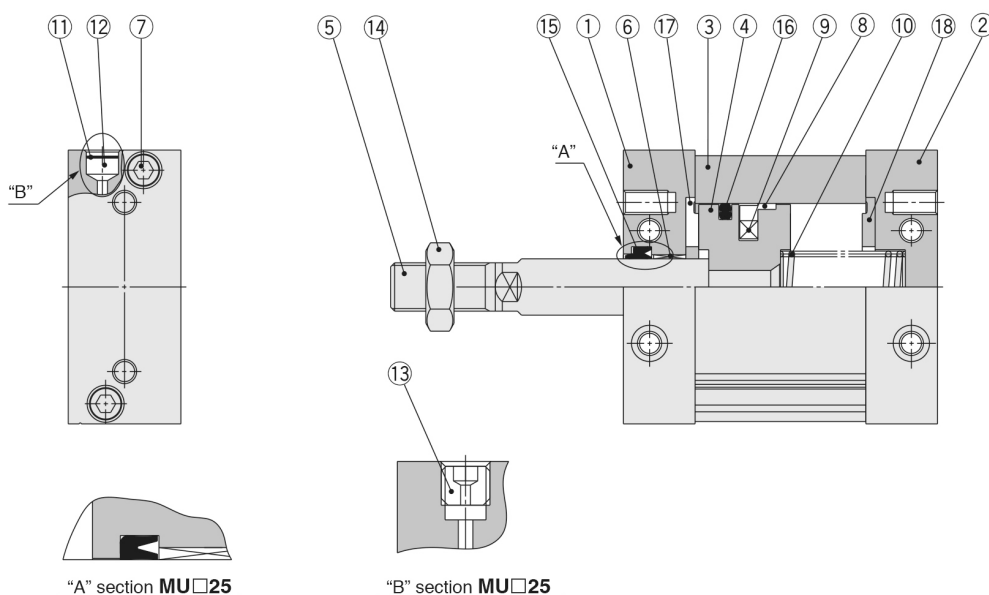
|                                                        |                                           |
|--------------------------------------------------------|-------------------------------------------|
| Magnet                                                 | D (Built-in)                              |
| Mounting                                               | B (Basic)                                 |
| Size                                                   | 25 (Equiv. Ø25 Piston Area)               |
| Port Thread Type                                       | M thread: ø25, Rc: 32 to 63               |
| Stroke                                                 | 10 mm                                     |
| Action                                                 | T (Single Acting, Spring Extend)          |
| Rod End                                                | Female Thread                             |
| Auto Switch                                            | None                                      |
| 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) |
| Maximum operating pressure                             | 0.7 MPa                                   |
| Minimum operating pressure                             | 0.18 MPa                                  |
| Proof pressure                                         | 1.05 MPa                                  |
| Mode of operation of drive single                      | Single acting, Spring extend              |
| Theoretical cylinder force, return stroke (at 0.5 MPa) | 159 N                                     |
| Maximum piston speed                                   | 500 mm/s                                  |
| Type of cushioning                                     | Rubber bumper                             |
| Minimum piston speed                                   | 50 mm/s                                   |

|                                       |                         |
|---------------------------------------|-------------------------|
| Lubrication                           | Not required (non-lube) |
| Allowable rotational torque           | 0.25 N·m                |
| Minimum ambient and fluid temperature | -10 °C                  |
| Fluid                                 | Air                     |
| Rod non-rotating accuracy             | ±1°                     |
| Stroke length tolerance               | +1.4<br>0               |
| Weight                                | 0.340 Kg                |



## Constructions

### Spring extend



### Component Parts

| No. | Description              | Material                       | Note                                 |
|-----|--------------------------|--------------------------------|--------------------------------------|
| 1   | Rod cover                | Aluminum alloy                 | Anodised                             |
| 2   | Head cover               | Aluminum alloy                 | Anodised                             |
| 3   | Cylinder tube            | Aluminum alloy                 | Hard anodised                        |
| 4   | Piston                   | Aluminum alloy                 | Chromated                            |
| 5   | Piston rod               | Carbon steel                   | Hard chrome plated                   |
| 6   | Bushing                  | Oil-impregnated sintered alloy |                                      |
| 7   | Hexagon socket head bolt | Stainless steel                |                                      |
| 8   | Wear ring                | Resin                          |                                      |
| 9   | Magnet                   | —                              | Only built-in magnet type            |
| 10  | Return spring            | Steel wire                     | Zinc chromated                       |
| 11  | Element                  | Bronze                         |                                      |
| 12  | Retaining ring           | Spring steel                   |                                      |
| 13  | Plug                     | Chromium molybdenum steel      |                                      |
| 14  | Rod end nut              | Rolled steel                   | Only attached to rod end male thread |
| 15  | Rod seal                 | NBR                            |                                      |
| 16  | Piston seal              | NBR                            |                                      |
| 17  | Bumper                   | Urethane                       |                                      |
| 18  | Bumper B                 | Urethane                       |                                      |

## Additional information

Catalogue

[MU\\_EU.pdf](#)