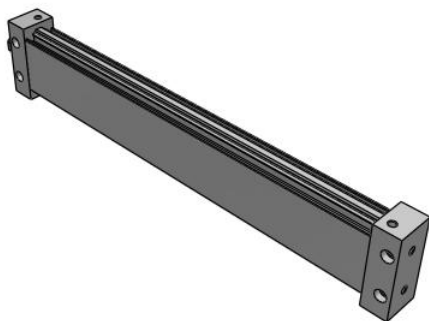




## M(D)U Plate Cylinder, Double Acting, Single Rod w/Auto Switch Mounting Groove MDUB25-250DZ

Datasheet

### General series information

- Plate Cylinder, Double 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.



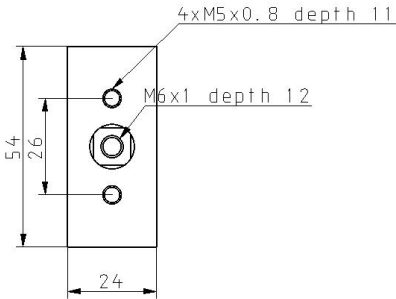
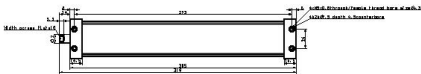
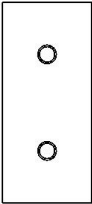
Double-acting, single-rod cylinder

### Standard specifications

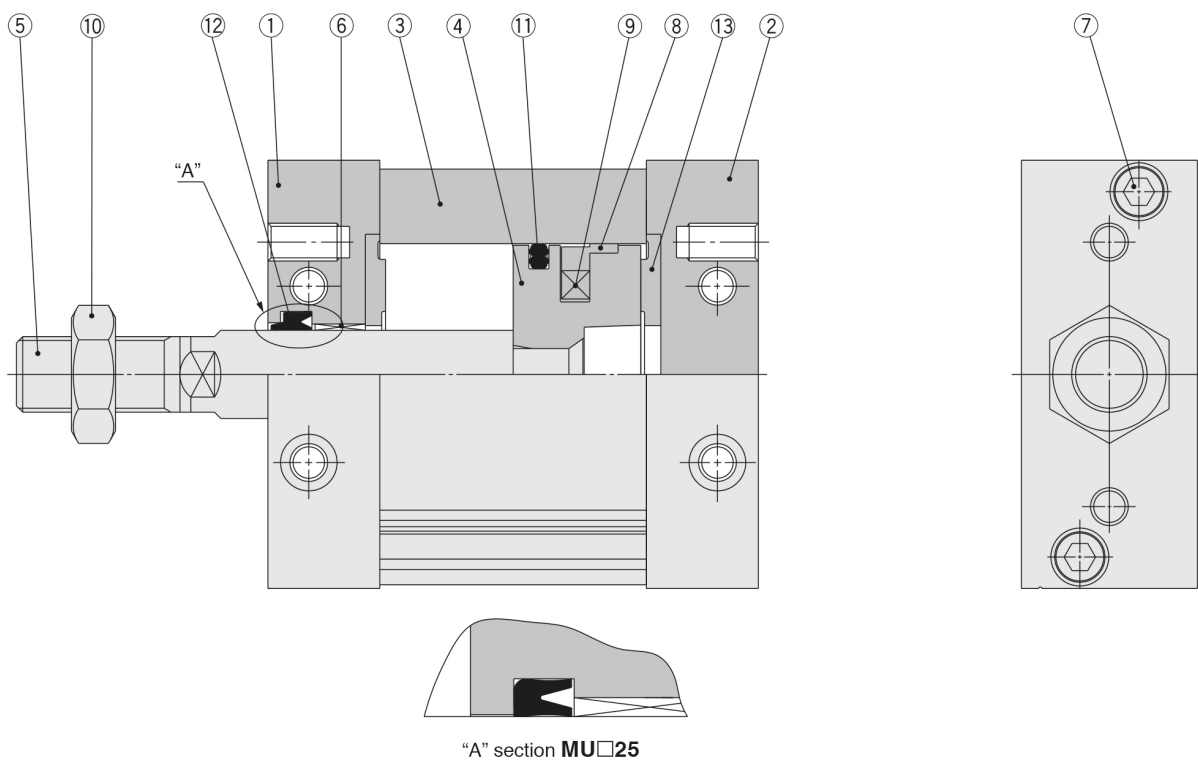
|                                                         |                                           |
|---------------------------------------------------------|-------------------------------------------|
| Magnet                                                  | D (Built-in)                              |
| Mounting                                                | B (Basic)                                 |
| Size                                                    | 25 (Equiv. Ø25 Piston Area)               |
| Port Thread Type                                        | M thread: ø25, Rc: 32 to 63               |
| Stroke                                                  | 250                                       |
| 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                              | 0.05 MPa                                  |
| Proof pressure                                          | 1.05 MPa                                  |
| Mode of operation of drive                              | Double acting                             |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 246 N                                     |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 189 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                |
| Maximum ambient and fluid temperature | 60 °C                   |
| Minimum ambient and fluid temperature | - 10 °C                 |
| Fluid                                 | Air                     |
| Rod non-rotating accuracy             | ±1°                     |
| Stroke length tolerance               | +1.4<br>0               |

Dimensions



## Constructions



### Component Parts

| No. | Description                     | Material                       | Note                                 |
|-----|---------------------------------|--------------------------------|--------------------------------------|
| 1   | <b>Rod cover</b>                | Aluminum alloy                 | Anodised                             |
| 2   | <b>Head cover</b>               | Aluminum alloy                 | Anodised                             |
| 3   | <b>Cylinder tube</b>            | Aluminum alloy                 | Hard anodised                        |
| 4   | <b>Piston</b>                   | Aluminum die-casted            | Chromated                            |
| 5   | <b>Piston rod</b>               | Carbon steel                   | Hard chrome plated                   |
| 6   | <b>Bushing</b>                  | Oil-impregnated sintered alloy |                                      |
| 7   | <b>Hexagon socket head bolt</b> | Stainless steel                |                                      |
| 8   | <b>Wear ring</b>                | Resin                          |                                      |
| 9   | <b>Magnet</b>                   | —                              | Only built-in magnet type            |
| 10  | <b>Rod end nut</b>              | Rolled steel                   | Only attached to rod end male thread |
| 11  | <b>Piston seal</b>              | NBR                            |                                      |
| 12  | <b>Rod seal</b>                 | NBR                            |                                      |
| 13  | <b>Bumper</b>                   | Urethane                       |                                      |

## Additional information

Catalogue

[MU\\_EU.pdf](#)