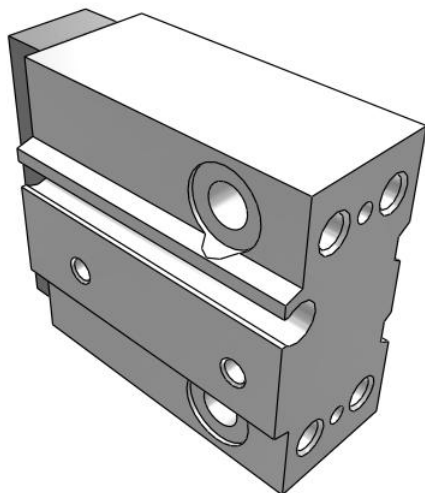


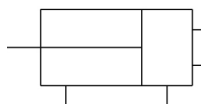


## MGJ, Miniature Guide Rod Cylinder MGJ10-12

### Datasheet

### General series information

Series MGJ miniature guide rod cylinder is ideal for applications requiring high side load and high non-rotational accuracy ( $\pm 0.1^\circ$ ). Rubber bumpers are standard. Two auto switches can be mounted with as little as 5mm of stroke.



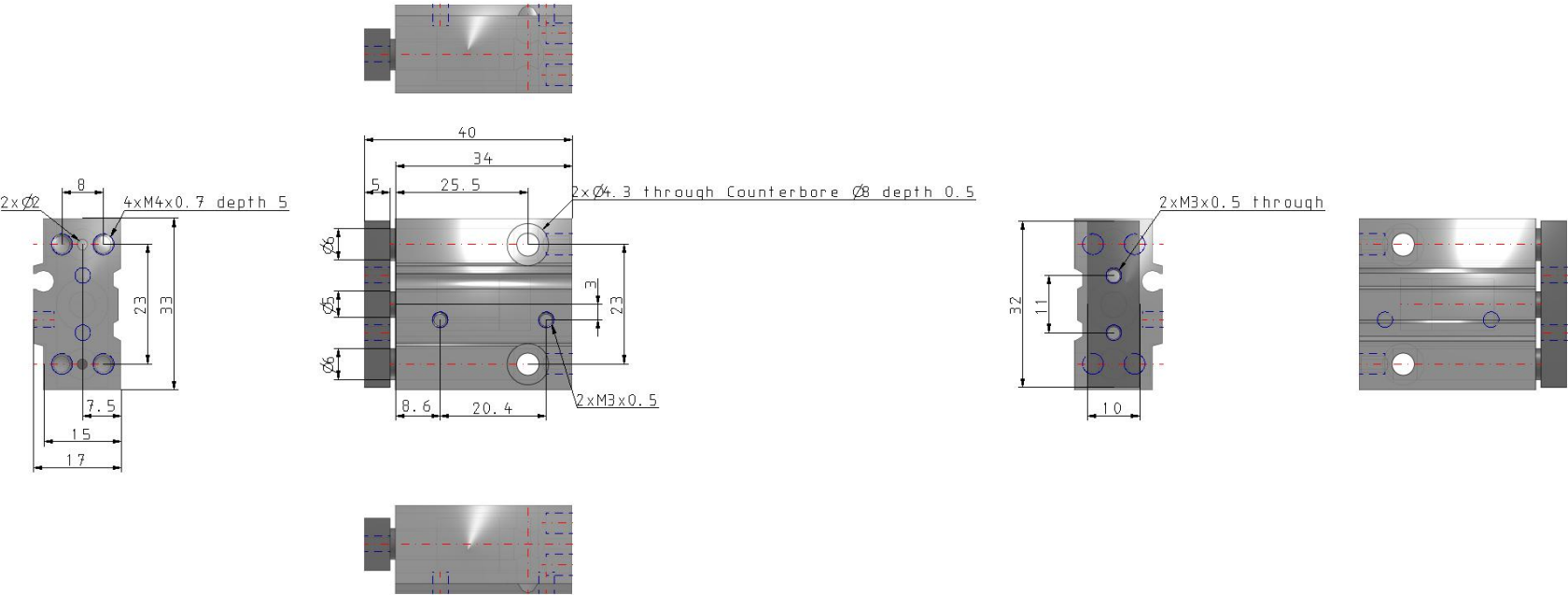
Double-acting cylinder, rear boss mount, single piston rod

### Standard specifications

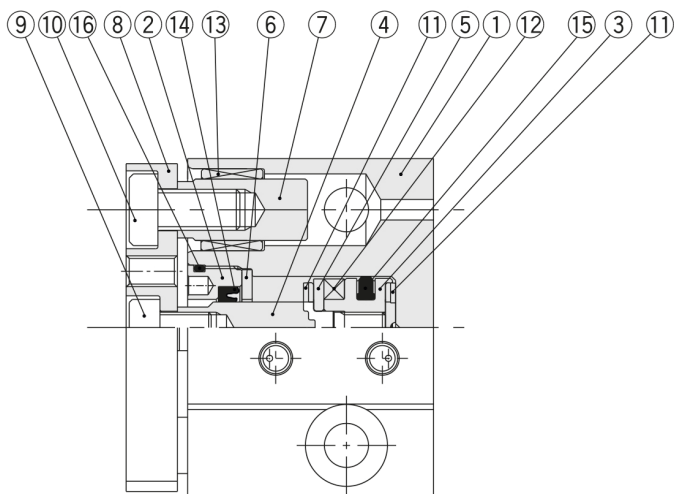
|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Bore Size                              | 10 mm                                    |
| Stroke                                 | 12 mm                                    |
| Auto Switch                            | None                                     |
| Lead Wire                              | 0.5 m (Or None in the Case of No Switch) |
| Number                                 | 2 pcs. (Or None in Case of No Switch)    |
| Pressure medium                        | Air                                      |
| Maximum operating pressure             | 0.7 MPa                                  |
| Minimum operating pressure             | 0.15 MPa                                 |
| Proof pressure                         | 1.05 MPa                                 |
| Maximum ambient temperature            | 60 °C                                    |
| Minimum ambient temperature            | - 10 °C                                  |
| Conform to the European RoHS Directive | Conform                                  |
| Maximum piston speed                   | 500 mm/s                                 |
| Type of cushioning                     | Rubber bumper at both ends               |
| Minimum piston speed                   | 50 mm/s                                  |
| Port size                              | M3                                       |
| Lubrication                            | Non-lube                                 |
| Stroke length tolerance                | + 1.0-0 mm                               |
| Thread Tolerance                       | JIS class 2                              |
| Action                                 | Double Acting                            |
| Guide size                             | ø6                                       |

|        |          |
|--------|----------|
| Weight | 0.051 Kg |
|--------|----------|

Dimensions



## Constructions



### Parts list

| No. | Description                      | Material                         | Note                           |
|-----|----------------------------------|----------------------------------|--------------------------------|
| 1   | Body                             | Aluminum alloy                   | Hard anodized                  |
| 2   | Rod cover                        | Aluminum alloy                   | Chromated                      |
| 3   | Piston                           | Aluminum alloy                   | Chromated                      |
| 4   | Piston rod                       | Stainless steel                  |                                |
| 5   | Magnet retainer                  | Aluminum alloy                   | Chromated, in case of Ø 6      |
|     |                                  | Stainless steel                  | In case of Ø 10                |
| 6   | Seal retainer                    | Aluminum alloy                   | Chromated, in case of Ø 6      |
|     |                                  | Stainless steel                  | In case of Ø 10                |
| 7   | Guide rod                        | Constructional steel             | Hard chromium electroplated    |
| 8   | Plate                            | Aluminum alloy                   | Hard anodized                  |
| 9   | Torque socket head bolt          | Constructional steel             | Nickel plated, in case of Ø 6  |
|     | Hexagon socket head cap screw    | Constructional steel             | Nickel plated, in case of Ø 10 |
| 10  | Brazier head hexagon socket bolt | Constructional steel             | Nickel plated                  |
| 11  | Bumper                           | Resin                            |                                |
| 12  | Magnet                           | Magnet                           |                                |
| 13  | Bushing                          | Sintered oil-impregnated bearing |                                |
| 14  | Rod seal                         | NBR                              |                                |
| 15  | Piston seal                      | NBR                              |                                |
| 16  | O-ring                           | NBR                              |                                |

## Additional information

Catalogue

[MGJ\\_EU.pdf](#)

Operation manuals

[OM\\_MGJ\\_OM0001OEN.pdf](#)