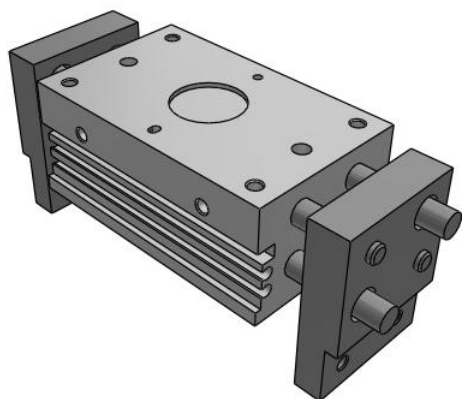




## Improved Design - MHL2-Z MHL2-16D1Z

### Datasheet

### General series information

- Maximum gripping force per finger 396 N at 0.5 MPa
- Double acting
- Repeatability:  $\pm 0.1$  mm
- Max. operating frequency: 60 c.p.m.

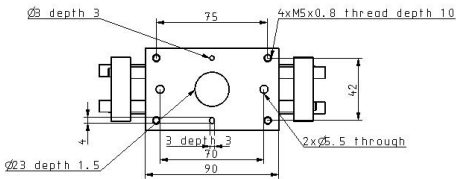
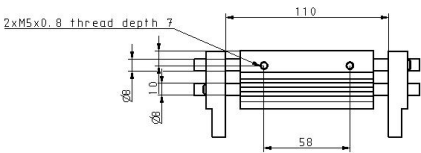
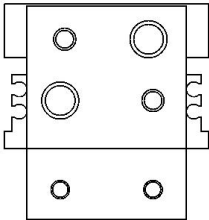
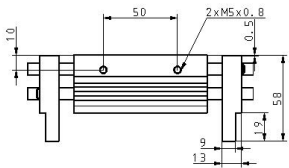
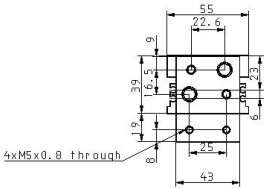


*Gripper, external grip, double-acting with permanent magnet on piston*

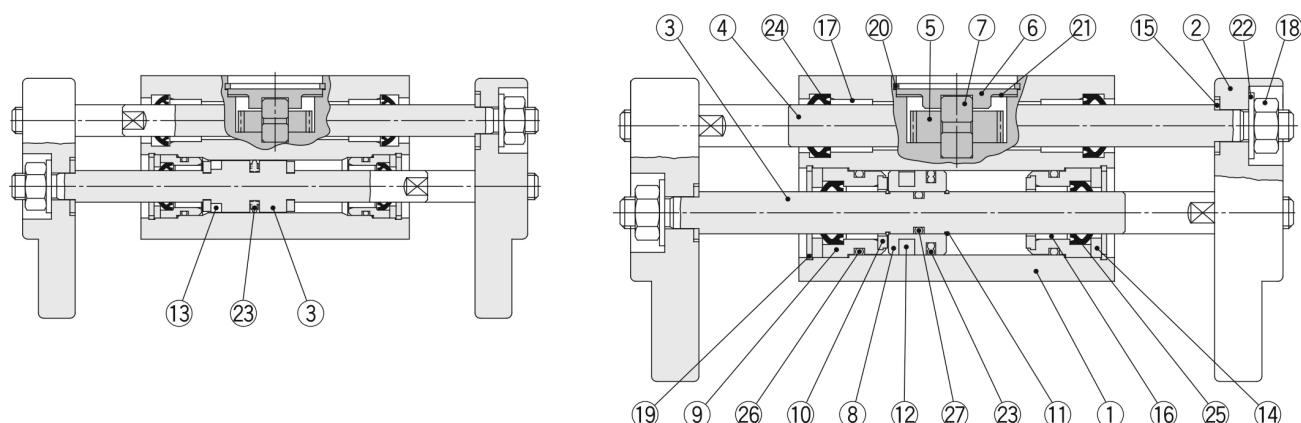
### Standard specifications

|                                              |                                                               |
|----------------------------------------------|---------------------------------------------------------------|
| Bore Size                                    | 16mm                                                          |
| Thread                                       | M thread: $\varnothing 10$ to $\varnothing 25$ , Rc: 32 to 40 |
| Opening/Closing Stroke                       | 1 (Medium)                                                    |
| 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)                     |
| Made to Order                                | None                                                          |
| Maximum operating pressure                   | 0,6 MPa                                                       |
| Minimum operating pressure                   | 0,1 MPa                                                       |
| Maximum ambient temperature                  | 60 °C                                                         |
| Minimum ambient temperature                  | -10 °C (No freezing)                                          |
| Repeatability                                | + - 0,1 mm                                                    |
| Lubrication                                  | Non-Lube                                                      |
| Circulating fluid                            | Air                                                           |
| Effective holding force per finger (0.5 MPa) | 45 N                                                          |
| Action                                       | Double Acting                                                 |
| Weight                                       | 0.725 Kg                                                      |

Dimensions



## Constructions



### Component Parts

| No. | Description             | Material                       | Note                       |
|-----|-------------------------|--------------------------------|----------------------------|
| 1   | <b>Body</b>             | Aluminium alloy                | Hard anodised              |
| 2   | <b>Finger</b>           | Aluminium alloy                | Hard anodised              |
| 3   | <b>Piston rod</b>       | Stainless steel                |                            |
| 4   | <b>Rack</b>             | Stainless steel                |                            |
| 5   | <b>Pinion</b>           | Carbon steel                   |                            |
| 6   | <b>Pinion cover</b>     | Carbon steel                   | Electroless nickel plating |
| 7   | <b>Pinion axis</b>      | Stainless steel                |                            |
| 8   | <b>Piston</b>           | Aluminium alloy                | Hard anodised              |
| 9   | <b>Rod cover</b>        | Aluminium alloy                | Trivalent chromated        |
| 10  | <b>Bumper</b>           | Urethane rubber                |                            |
| 11  | <b>Clip</b>             | Stainless steel spring wire    |                            |
| 12  | <b>Rubber magnet</b>    | Synthetic rubber               |                            |
| 13  | <b>Magnet</b>           | —                              | Nickel plating             |
| 14  | <b>Rod seal cover B</b> | Cold rolled carbon steel sheet | Electroless nickel plating |

| No. | Description                             | Material                  | Note                |
|-----|-----------------------------------------|---------------------------|---------------------|
| 15  | <b>Washer</b>                           | Stainless steel           |                     |
| 16  | <b>Bearing</b>                          | Oil containing polyacetal |                     |
| 17  | <b>Bearing</b>                          | Oil containing polyacetal |                     |
| 18  | <b>U-nut</b>                            | Carbon steel              | Trivalent chromated |
| 19  | <b>Inverted internal retaining ring</b> | Carbon steel              | Phosphate coating   |
| 20  | <b>C type retaining ring</b>            | Carbon steel              | Phosphate coating   |
| 21  | <b>Wave washer</b>                      | Steel for spring          | Phosphate coating   |
| 22  | <b>Conical spring washer</b>            | Carbon steel              |                     |
| 23  | <b>Piston seal</b>                      | NBR                       |                     |
| 24  | <b>Rod seal</b>                         | NBR                       |                     |
| 25  | <b>Rod seal</b>                         | NBR                       |                     |
| 26  | <b>Gasket</b>                           | NBR                       |                     |
| 27  | <b>Gasket</b>                           | NBR                       |                     |

## Additional information

Catalogue

[MHL2-B\\_EU.pdf](#)