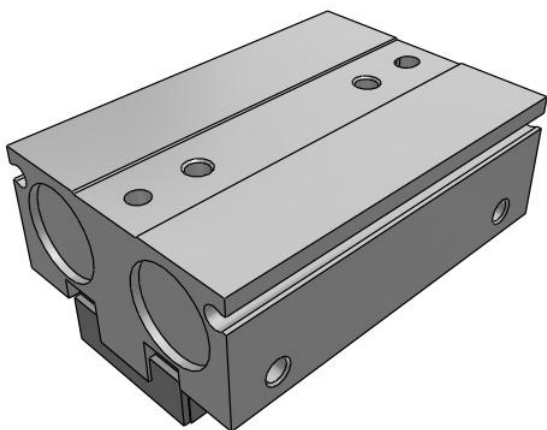




## Standard - MHF2 MHF2-16DR

### Datasheet

### General series information

- Maximum gripping force per finger 141 N at 0.5 MPa
- Double acting
- Repeatability:  $\pm 0.05$  mm
- Max. operating frequency: 120 c.p.m.



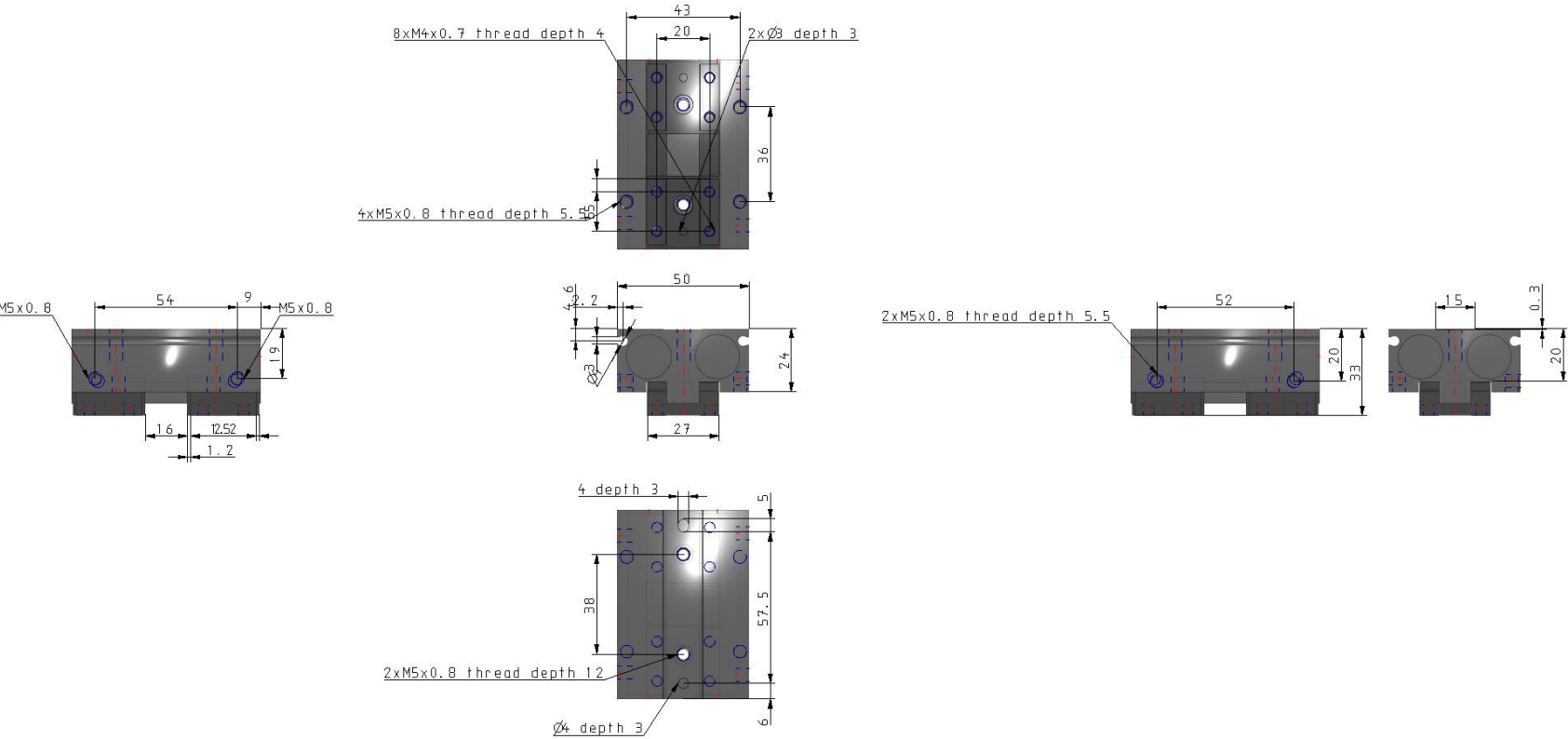
*Gripper, external grip, double-acting with permanent magnet on piston*

### Standard specifications

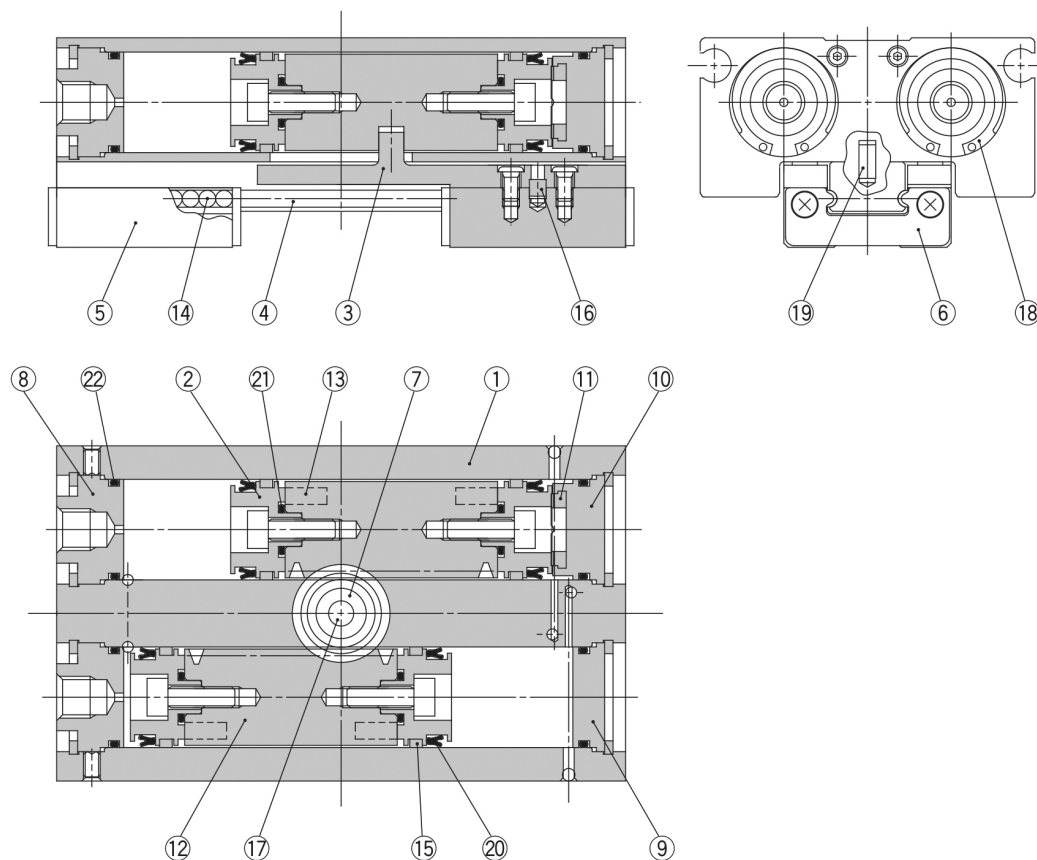
|                                        |                                            |
|----------------------------------------|--------------------------------------------|
| Bore Size                              | 16 mm                                      |
| Port Thread Type                       | Rc (or Metric)                             |
| Opening & Closing Stroke               | Short Stroke                               |
| Body Option                            | R (Side Ported Type)                       |
| 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)   |
| Option                                 | None                                       |
| Stroke Adjustable Side                 | None                                       |
| Stroke Adjustable Width                | None                                       |
| Pressure medium                        | Air; Air                                   |
| Maximum temperature of pressure medium | 60 °C; 60 °C                               |
| Minimum temperature of pressure medium | -10 °C (No freezing); -10 °C (No freezing) |
| Maximum operating pressure             | 0.7 MPa                                    |
| Minimum operating pressure             | 0.1 MPa                                    |
| Maximum ambient temperature            | 60 °C; 60 °C                               |
| Minimum ambient temperature            | -10 °C (No freezing); -10 °C (No freezing) |
| Number of pneumatic connections        | 2 pcs.                                     |
| Pneumatic input connection             | M5                                         |

|                                              |               |
|----------------------------------------------|---------------|
| Pneumatic exhaust connection                 | M5            |
| Repeatability                                | ± 0.05 mm     |
| Lubrication                                  | Non-lube      |
| Type of gripper                              | Parallel      |
| Number of fingers                            | 2             |
| Mode of operation                            | Double acting |
| Maximum operating frequency                  | 120 c.p.m.    |
| Effective holding force per finger (0.5 MPa) | 90 N          |
| Opening / closing stroke (both sides)        | 16 mm         |
| Weight                                       | 0.350 Kg      |

Dimensions



## Constructions



### Parts list

| No. | Description    | Material        | Note           |
|-----|----------------|-----------------|----------------|
| 1   | Body           | Aluminium alloy | Hard anodized  |
| 2   | Piston         | Aluminium alloy | Clear anodized |
| 3   | Joint          | Stainless steel | Heat treatment |
| 4   | Guide rail     | Stainless steel | Heat treatment |
| 5   | Finger         | Stainless steel | Heat treatment |
| 6   | Roller stopper | Stainless steel |                |
| 7   | Pinion         | Carbon steel    | Nit riding     |
| 8   | Cap A          | Aluminium alloy | Clear anodized |
| 9   | Cap B          | Aluminium alloy | Clear anodized |
| 10  | Cap C          | Aluminium alloy | Clear anodized |
| 11  | Head damper    | Urethane rubber |                |
| 12  | Rack           | Stainless steel | Nit riding     |

### Parts list

| No. | Description                 | Material                           | Note          |
|-----|-----------------------------|------------------------------------|---------------|
| 13  | Magnet                      | Tare earth magnet                  | Nickel plated |
| 14  | Steel balls                 | High carbon chromium bearing steel |               |
| 15  | Wear ring                   | Synthetic resin                    |               |
| 16  | ø12: Roller                 | High carbon chromium bearing steel |               |
| 16  | ø16 to 20: Parallel pin     | Stainless steel                    |               |
| 17  | Needle roller               | High carbon chromium bearing steel |               |
| 18  | ø12: R shape snap ring      | Carbon steel                       | Nickel plated |
| 18  | ø16 to 20: C type snap ring |                                    |               |
| 19  | Parallel pin                | Stainless steel                    |               |
| 20  | Piston seal                 | NBR                                |               |
| 21  | Gasket                      | NBR                                |               |
| 22  | Gasket                      | NBR                                |               |

## Additional information

Catalogue

[MHF2-C\\_EU.pdf](#)

Operation manuals

[OM\\_MHF2-D\\_OMF0021EN.pdf](#)