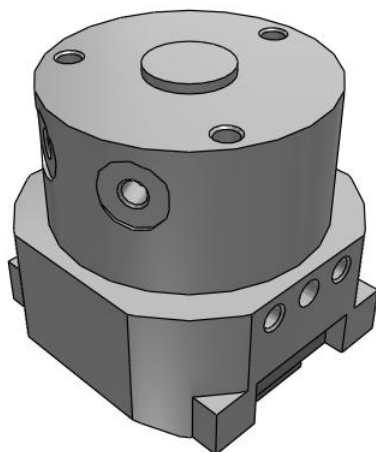


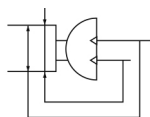


## Standard - MHR2 MHR2-10R

### Datasheet

### General series information

- Maximum gripping force 59 N at 0.5 MPa
- Double acting
- Repeatability:  $\pm 0.01$  mm
- Max. operating frequency: 180 c.p.m.

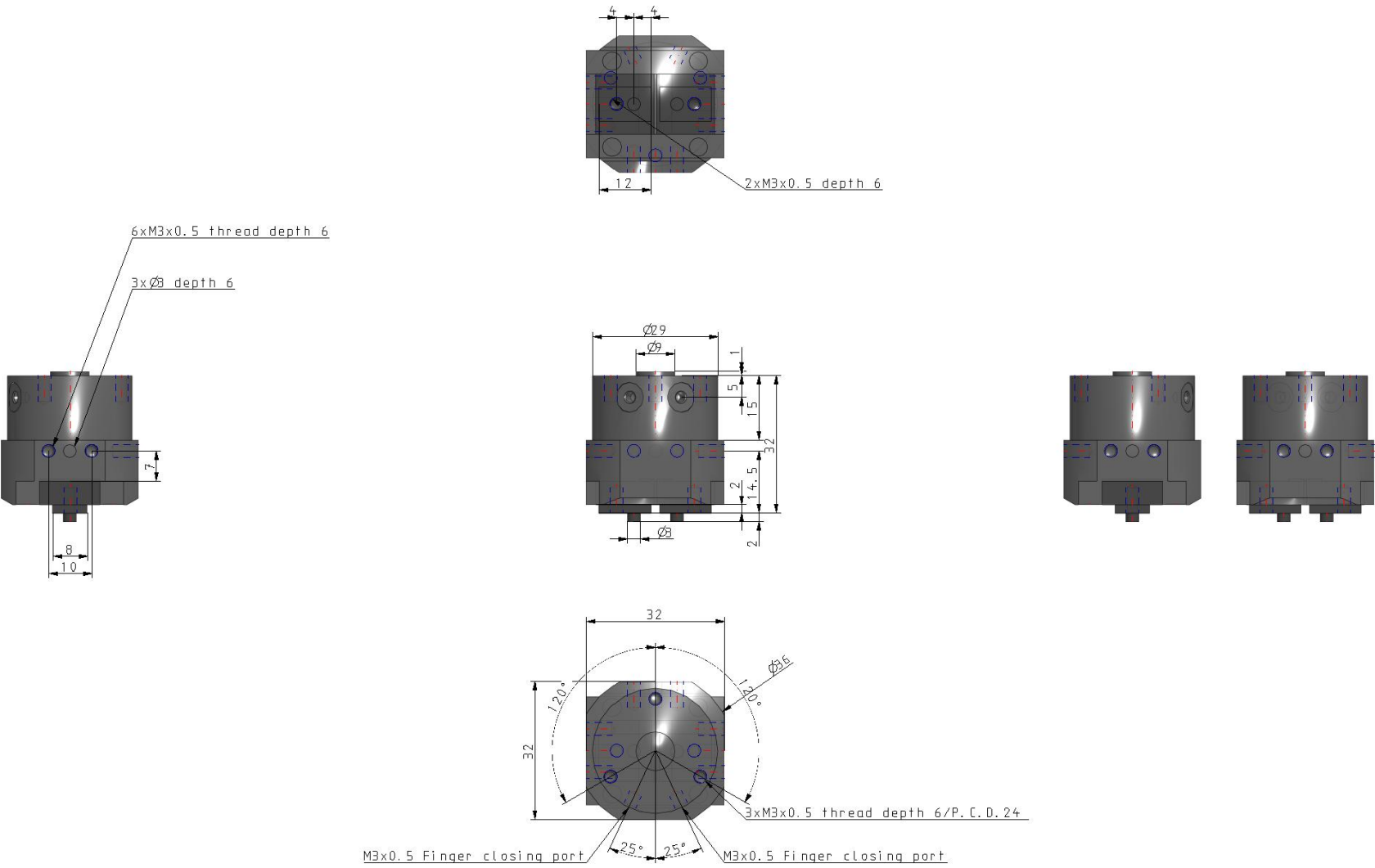


*Rotary actuated air gripper*

### Standard specifications

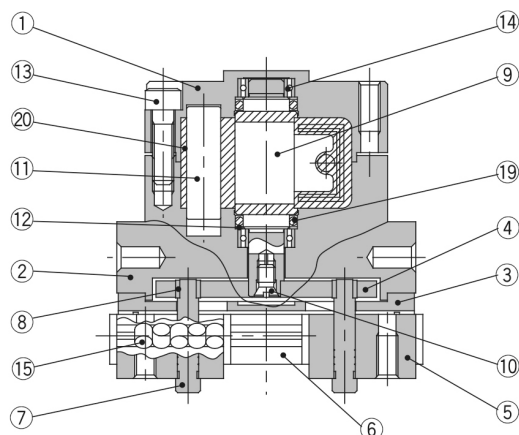
|                                                |                         |
|------------------------------------------------|-------------------------|
| Nominal Size                                   | 10                      |
| Port Location                                  | R (Body Side Direction) |
| Maximum operating pressure                     | 0.6 MPa                 |
| Minimum operating pressure                     | 0.2 MPa                 |
| Maximum ambient temperature                    | 60 °C                   |
| Minimum ambient temperature                    | 0 °C                    |
| Repeatability                                  | $\pm 0.01$ mm           |
| Port size                                      | M3                      |
| Applicable fluid                               | Air                     |
| Lubrication                                    | Non lube                |
| Action                                         | Double acting           |
| Holding force at 0.5 MPa, external hold        | 12 N                    |
| Holding force at 0.5 MPa, internal hold        | 12 N                    |
| Opening / closing stroke (both sides), closing | 10 mm                   |
| Opening / closing stroke (both sides), opening | 16 mm                   |
| Weight                                         | 0.100 Kg                |

Dimensions

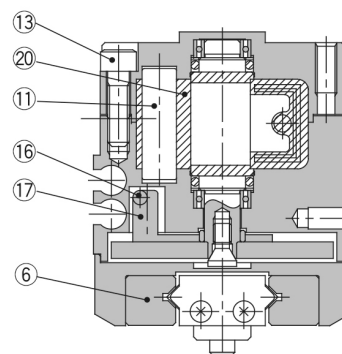
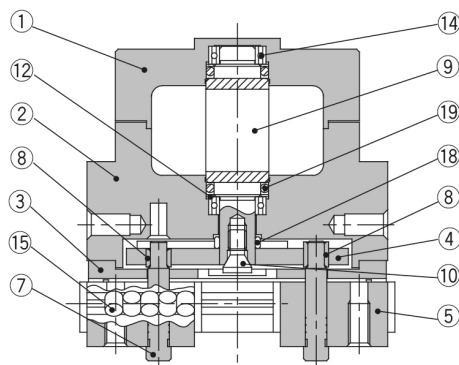


## Constructions

### MHR2



### MDHR2



#### Component Parts

| No. | Description  | Material                | Note                                        |
|-----|--------------|-------------------------|---------------------------------------------|
| ①   | Body         | Aluminum alloy          | Anodized                                    |
| ②   | Adaptor Body | Aluminum alloy          | Anodized                                    |
| ③   | Guide holder | Stainless steel         |                                             |
| ④   | Cam          | Cold rolled steel       | Nitriding                                   |
| ⑤   | Finger ass'y | Stainless steel         | Heat treatment                              |
| ⑥   | Guide        | Stainless steel         | Heat treatment                              |
| ⑦   | Pin          | Carbon steel            | Heat treatment<br>Electroless nickel plated |
| ⑧   | Pin roller   | Stainless steel         | Nitriding                                   |
| ⑨   | Vane shaft   | Stainless steel         | M□HR2-30 is carbon steel                    |
| ⑩   | Shaft bolt   | Chrome molybdenum steel | Zinc chrome                                 |

#### Component Parts

| No. | Description              | Material                 | Note      |
|-----|--------------------------|--------------------------|-----------|
| ⑪   | Stopper                  | Resin                    |           |
| ⑫   | Back-up ring             | Stainless steel plate    |           |
| ⑬   | Hexagon socket head bolt | Stainless steel          |           |
| ⑭   | Bearing                  | High carbon chrome steel |           |
| ⑮   | Cylindrical roller       | Stainless steel          |           |
| ⑯   | Magnet                   | Magnetic material        |           |
| ⑰   | Magnet holder            | Aluminum alloy           | Anodized  |
| ⑱   | Roller                   | Stainless steel          | Nitriding |
| ⑲   | O ring                   | NBR                      |           |
| ⑳   | Stopper packing          | NBR                      |           |

## Additional information

Catalogue

[MHR2\\_EU.pdf](#)

Operation manuals

[OM\\_MHR2\\_OMG0033EN.pdf](#)