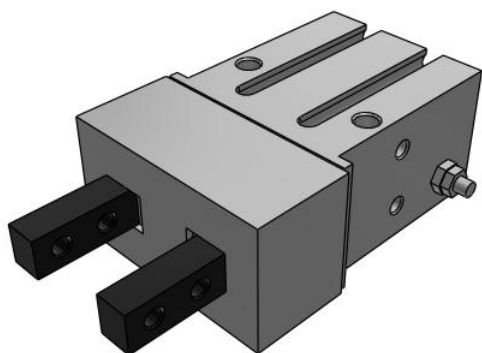




## High Accuracy, Wedge Cam - MHK MHK2-12D

### Datasheet

### General series information

- Maximum gripping force per finger 86 N at 0.5 MPa
- Double acting
- Repeatability:  $\pm 0.01$  mm
- Max. operating frequency: 120 c.p.m.

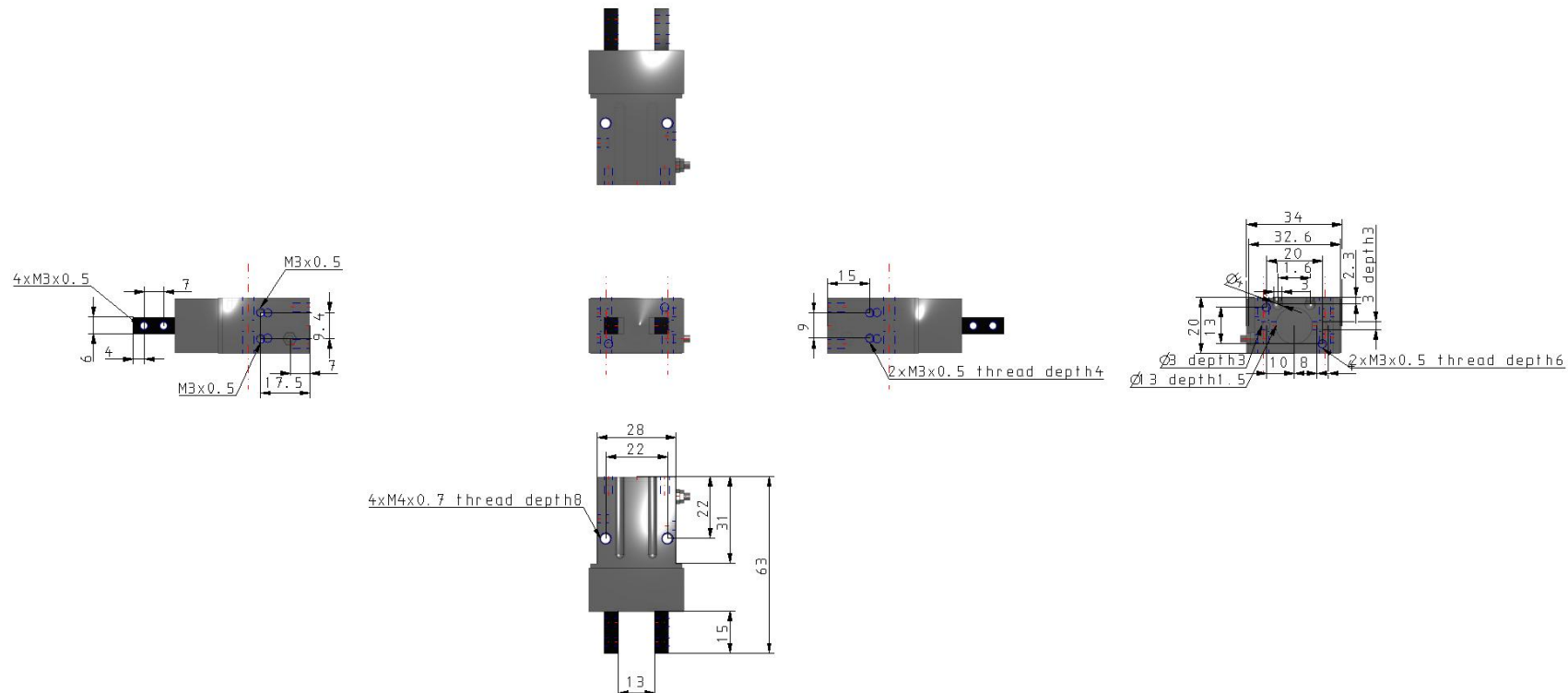


*Gripper, internal grip, double-acting with permanent magnet on piston*

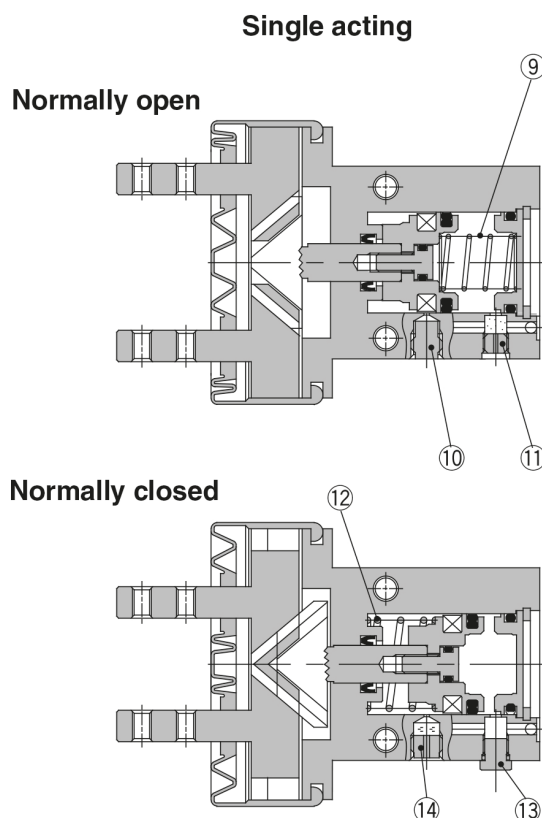
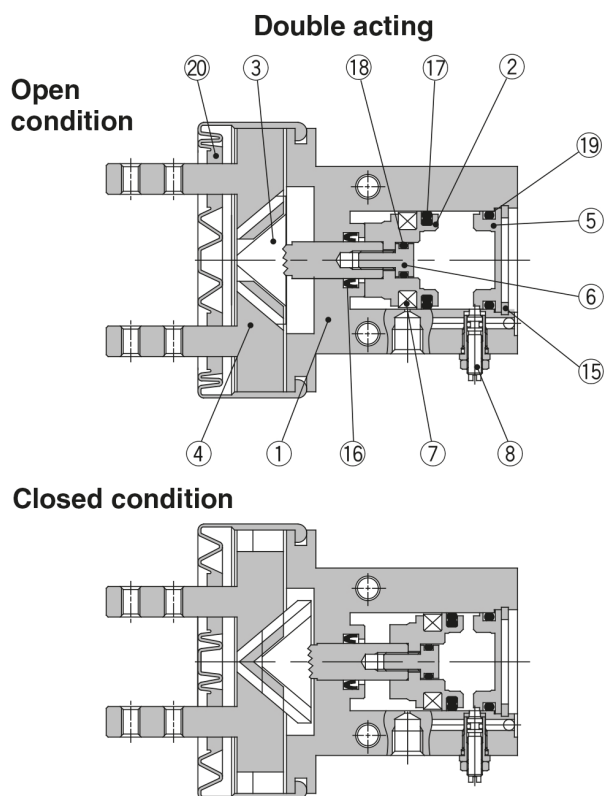
### Standard specifications

|                                                        |                                           |
|--------------------------------------------------------|-------------------------------------------|
| Finger Stroke                                          | Standard                                  |
| Bore Size                                              | 12 mm                                     |
| Action                                                 | D (Double Acting)                         |
| Finger Material                                        | Carbon Steel                              |
| Dust Cover                                             | Chloroprene Rubber (CR)                   |
| 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) |
| Maximum operating pressure                             | 0.6 MPa                                   |
| Minimum operating pressure                             | 0.1 MPa                                   |
| Maximum ambient temperature                            | 60 °C                                     |
| Minimum ambient temperature                            | -10 °C                                    |
| Repeatability                                          | $\pm 0.01$ mm                             |
| Lubrication                                            | Not required                              |
| Effective holding force per finger, external (0.5 MPa) | 15 N                                      |
| Effective holding force per finger, internal (0.5 MPa) | 16 N                                      |
| Opening / closing stroke (both sides)                  | 4 mm                                      |
| Fluid                                                  | Air                                       |
| Max. operating frequency                               | 120 c.p.m                                 |

|        |          |
|--------|----------|
| Weight | 0.075 Kg |
|--------|----------|



## Constructions



### Component Parts

| No. | Description          | Material            | Note                            |
|-----|----------------------|---------------------|---------------------------------|
| 1   | <b>Body</b>          | Aluminium alloy     | Hard anodised                   |
| 2   | <b>Piston</b>        | Aluminium alloy     | Hard anodised                   |
| 3   | <b>Cam</b>           | Carbon steel        | Heat treated, Specially treated |
| 4   | <b>Finger</b>        | Carbon steel        | Heat treated, Specially treated |
|     |                      | Stainless steel 304 | Option                          |
| 5   | <b>Cap</b>           | Aluminium alloy     | Hard anodised                   |
| 6   | <b>Piston bolt</b>   | Stainless steel     |                                 |
| 7   | <b>Rubber magnet</b> | Synthetic rubber    |                                 |

| No. | Description                  | Material     | Note                      |
|-----|------------------------------|--------------|---------------------------|
| 8   | <b>Needle assembly</b>       |              |                           |
| 9   | <b>N.O. spring</b>           | Piano wire   |                           |
| 10  | <b>Plug</b>                  | Brass        | Electroless nickel plated |
| 11  | <b>Exhaust plug</b>          | Brass        | Electroless nickel plated |
| 12  | <b>N.C. spring</b>           | Piano wire   |                           |
| 13  | <b>Plug assembly</b>         | Brass        | Electroless nickel plated |
| 14  | <b>Exhaust plug A</b>        | Brass        | Electroless nickel plated |
| 15  | <b>Type C retaining ring</b> | Carbon steel | Nickel plated             |

## Additional information

Catalogue

[MHK2\\_EU.pdf](#)

Operation manuals

[OM\\_MHK2\\_OMF0058EN.pdf](#)