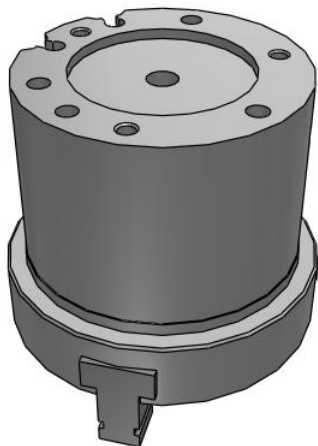




## Through Hole - MSH3 MSH3-32D

### Datasheet

### General series information

- Maximum gripping force 490 N at 0.5 MPa
- Double acting
- Repeatability:  $\pm 0.01$  mm
- Max. operating frequency: 120 c.p.m.



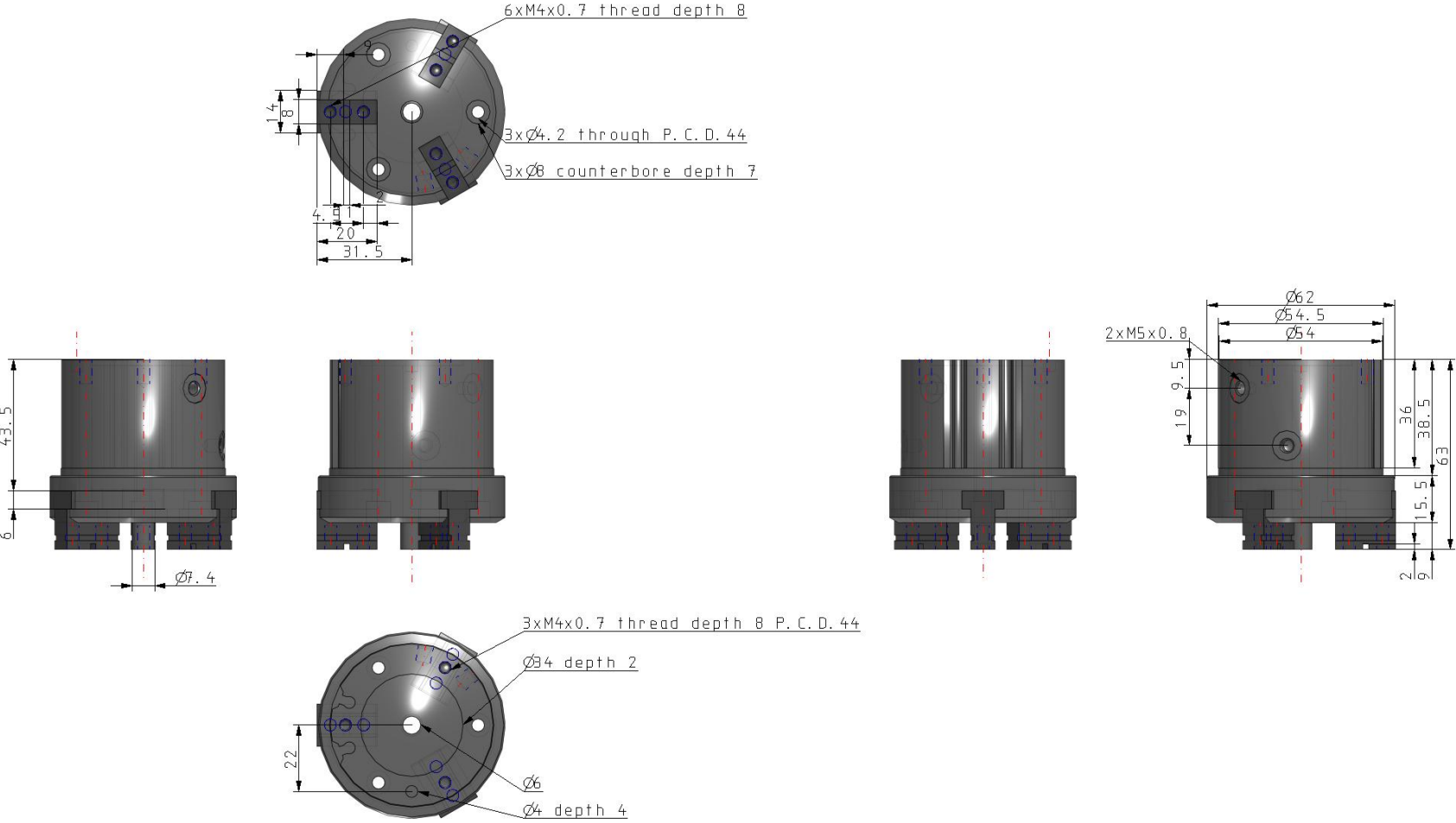
*Gripper, internal grip, double-acting with permanent magnet on piston*

### Standard specifications

|                                                        |                                          |
|--------------------------------------------------------|------------------------------------------|
| Bore Size                                              | 32 mm                                    |
| Port Thread                                            | Bore 16-63: M Thread; Bore 80: Rc        |
| Center Pusher                                          | w/o Centre Pusher                        |
| Auto Switch                                            | No Switch                                |
| Lead Wire or Prewired Connector                        | 0.5m (Or None in the Case of No Switch)  |
| Suffix for Auto Switch                                 | 2 pcs (Or None in the Case of No Switch) |
| Special Specifications                                 | None                                     |
| 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                                            | Non-lube                                 |
| Effective holding force per finger, external (0.5 MPa) | 62 N                                     |
| Effective holding force per finger, internal (0.5 MPa) | 77 N                                     |
| Maximum operating frequency                            | 60 c.p.m.                                |
| Fluid                                                  | Air                                      |
| Action                                                 | Double Acting                            |
| Stroke per gripper jaw                                 | 8 mm                                     |

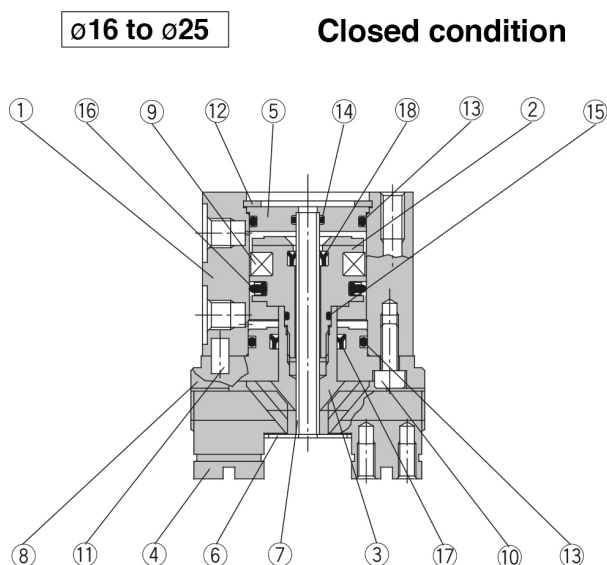
|        |          |
|--------|----------|
| Weight | 0.410 Kg |
|--------|----------|

Dimensions

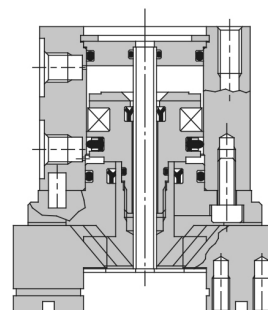


Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

## Constructions

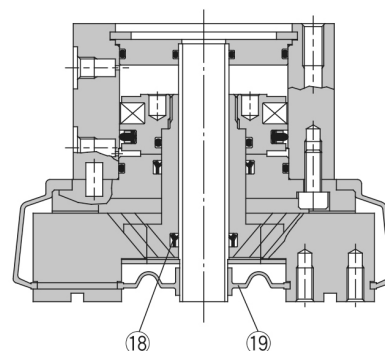


### Open condition



### ø32 to ø80

### Open condition



#### Parts list

| No. | Description               | Material                                                  | Note                            |
|-----|---------------------------|-----------------------------------------------------------|---------------------------------|
| 1   | Body                      | Aluminum alloy                                            | Hard anodized                   |
| 2   | Piston                    | ø16 to ø25: Stainless steel<br>ø32 to ø80: Aluminum alloy | Hard anodized                   |
| 3   | Cam (A)                   | Carbon steel                                              | Heat treated, Specially treated |
| 4   | Finger                    | Carbon steel                                              | Heat treated, Specially treated |
| 5   | Cap (A)                   | Aluminum alloy                                            | Hard anodized                   |
| 6   | End plate (A)             | Stainless steel                                           |                                 |
| 7   | Tube                      | Stainless steel                                           |                                 |
| 8   | Guide                     | Aluminum alloy                                            | Hard anodized                   |
| 9   | Rubber magnet             | Synthetic rubber                                          |                                 |
| 10  | Hexagon socket head screw | Carbon steel                                              | Nickel plated                   |
| 11  | Parallel pin              | Stainless steel                                           |                                 |
| 12  | C type snap ring          | Carbon steel                                              | Nickel plated                   |

| No. | Description | Material | Note |
|-----|-------------|----------|------|
| 13  | Gasket      | NBR      |      |
| 14  | Gasket      | NBR      |      |
| 15  | Gasket      | NBR      |      |
| 16  | Piston seal | NBR      |      |
| 17  | Rod seal    | NBR      |      |
| 18  | Rod seal    | NBR      |      |

## Additional information

Catalogue

[MHS\\_EU.pdf](#)