

# CLAMPING ELEMENTS | PNEUMATIC

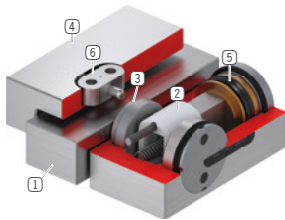
## MCP1500MW

### ► PRODUCT ADVANTAGES



- **small construction**  
For all common miniature profile rail guides
- **Energize to close (NO)**  
Closing with pressure
- **high durability**  
Up to 5 million static clamping cycles

### ► TECHNICAL DETAILS



- ① **Miniature profile rail guide**
  - Available for all common miniature profile rail guides
- ② **Wedge-type gear**
  - Power transmission between piston and clamping jaw
- ③ **Clamping jaw**
  - Pressed at the free surfaces of the profile rail guide
- ④ **Housing**
- ⑤ **Pneumatic piston**
  - The piston moves the wedge-type gear longitudinally
- ⑥ **Sliding block**
  - For floating bearings

### ► INFORMATION ON THE PRODUCTS

#### APPLICATION SCENARIOS

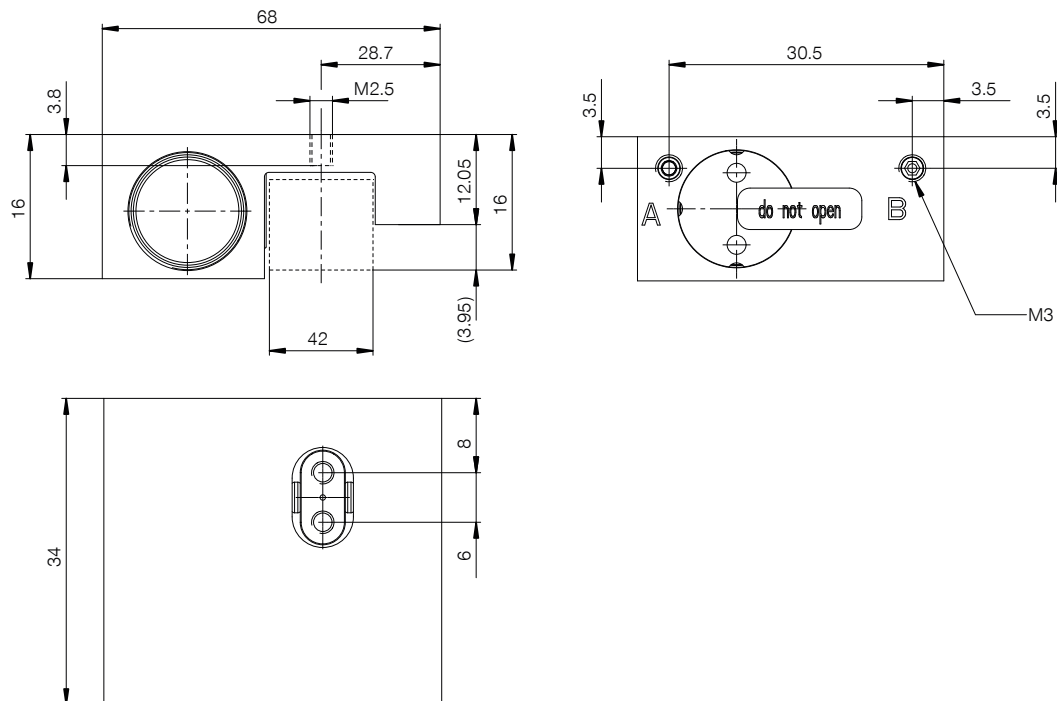
- **Clamping of machine tables**
- **Positioning of axes**
- **Fixing of vertical axes in neutral position**

#### FURTHER INFORMATION

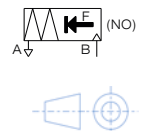
- **Special variants on request, e.g.**  
With additional air connection (from above, from the front)

|                    |              |             |                 |
|--------------------|--------------|-------------|-----------------|
| Track manufacturer | Rail type    | Rail size   | Carriage type   |
| <b>HIWIN</b> ✓     | <b>MGW</b> ✓ | <b>15</b> ✓ | <b>MGW..C</b> ✓ |

## ► TECHNICAL DRAWINGS



- Ⓐ Vent filter (one-sided)
- Ⓑ Connection closing



## ► TECHNICAL DATA

| Order No.                               | MCP1500MW                                |
|-----------------------------------------|------------------------------------------|
| Operation                               | pneumatic                                |
| Holding force                           | 280 [N]                                  |
| Theoretical holding force ( $\mu=0,1$ ) | 350 [N]                                  |
| PLUS connection possible                | No                                       |
| Operating pressure                      | 2 ... 6.5 [bar]                          |
| Nominal operating pressure              | 6 [bar]                                  |
| B10d value                              | 5,000,000                                |
| Positioning accuracy +/-                | 0,05 [mm]                                |
| Opening time                            | 0.015 [s]                                |
| Closing time                            | 0.01 [s]                                 |
| Operating temperature                   | -10 ... +70 [°C]                         |
| Weight                                  | 0.19 [kg]                                |
| Function                                | Clamping                                 |
| Condition                               | NO (Normally Open) open without pressure |
| Installation direction                  | from above                               |
| Masking tape can be used                | without masking tape                     |
| Air volume per cycle                    | 2 [cm³]                                  |

Schematic drawing. General tolerances according to DIN ISO 2768 T1-4/T2-H. Edges according to ISO 13715. Element has no guiding properties. Guidance must be external. The holding force is the maximum force that can be applied in the axial direction. Each clamping and braking element is tested in a 100% inspection before delivery for the specified holding forces on a hardened steel rail with a lightly oiled lubricating layer (ISO-VG 68). The use of other lubricants or rail coatings can influence the coefficient of friction. The operating instructions must be observed before commissioning. We reserve the right to make technical changes in the course of further development. The latest and further data can be found online and in the operating instructions at [www.zimmer-group.com](http://www.zimmer-group.com).