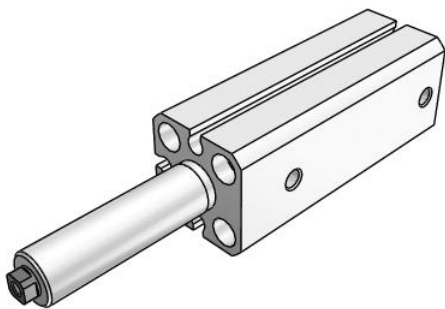




## MK-Z Rotary Clamp Cylinder, Standard w/Auto Switch Mounting Grooves MKB12-30RZ

Datasheet

### General series information

- Length has been reduced in comparison to MK2 and is similar in length to MK.
- Bore sizes (mm): 12, 16, 20, 25, 32, 40, 50, 63
- Compact auto switch D-M9 can be mounted on 4 sides.
- Magnetic field resistant auto switch can be used.
- 2 types of cylinder mounting are available with one body.



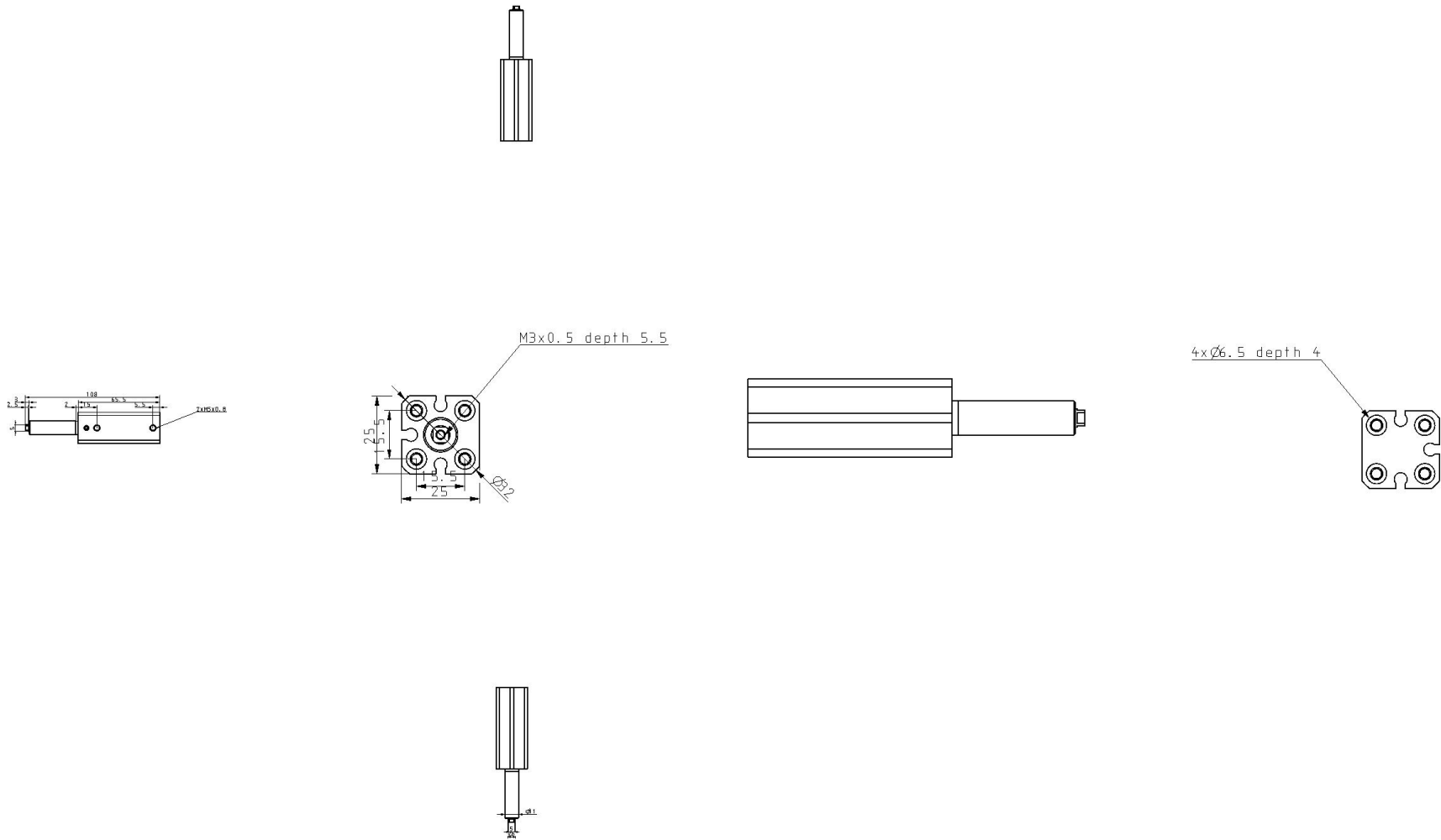
Double-acting, single-rod cylinder

### Standard specifications

|                                                    |                                                 |
|----------------------------------------------------|-------------------------------------------------|
| Mounting                                           | B (Through-hole/Both Ends Tapped Common, Basic) |
| Bore Size                                          | Ø12 mm                                          |
| Port Thread                                        | M thread: ø12 to ø25, Rc: 32 to 63              |
| Clamp Stroke                                       | 30 mm                                           |
| Rotary Direction                                   | R (Clockwise)                                   |
| Body Option                                        | Standard (Female Thread)                        |
| 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]       |
| Made to Order                                      | None                                            |
| Pressure medium                                    | Air                                             |
| Maximum temperature of pressure medium             | 70 °C                                           |
| Maximum temperature of pressure medium with magnet | 60 °C                                           |
| Minimum temperature of pressure medium             | -10 °C (No freezing)                            |
| Minimum temperature of pressure medium with magnet | -10 °C (No freezing)                            |
| Maximum operating pressure                         | 1.0 MPa                                         |
| Minimum operating pressure                         | 0.1 MPa                                         |
| Proof pressure                                     | 1.5 MPa                                         |

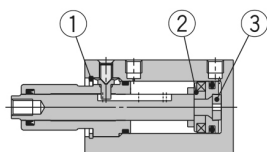
|                                                         |                      |
|---------------------------------------------------------|----------------------|
| Maximum ambient temperature                             | 70 °C                |
| Maximum ambient temperature with magnet                 | 60 °C                |
| Minimum ambient temperature                             | -10 °C (No freezing) |
| Minimum ambient temperature with magnet                 | -10 °C (No freezing) |
| Number of pneumatic connections                         | 2 pcs.               |
| Pneumatic input connection                              | M5                   |
| Pneumatic exhaust connection                            | M5                   |
| Mode of operation of drive                              | Double acting        |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 57 N                 |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 42 N                 |
| Maximum piston speed                                    | 200 mm/s             |
| Type of cushioning                                      | Rubber bumper        |
| Piston rod end                                          | Female thread        |
| Female thread of rod end                                | M3                   |
| Weight                                                  | 0.099 Kg             |

Dimensions

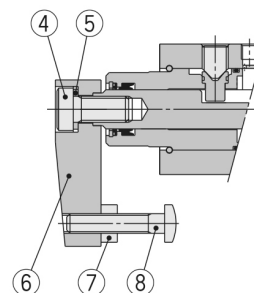


## Constructions

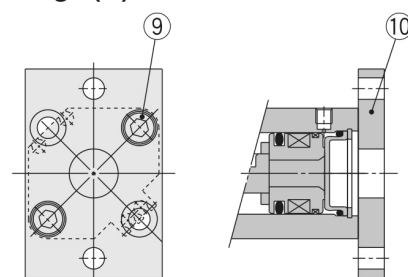
### New MK12, 16



### With arm (N)



### Head flange (G)



### Component Parts

| No. | Description                   | Material                  | Note      |
|-----|-------------------------------|---------------------------|-----------|
| 1   | Round R-type retaining ring   | Carbon tool steel         |           |
| 2   | Magnet holder                 | Aluminum alloy            | Chromated |
| 3   | Bumper B                      | Urethane                  |           |
| 4   | Hexagon socket head cap screw | Chromium molybdenum steel |           |
| 5   | Spring washer                 | Hard steel                |           |
| 6   | Arm                           | Rolled steel              |           |
| 7   | Hexagon nut                   | Rolled steel              |           |
| 8   | Clamp bolt                    | Chromium molybdenum steel |           |
| 9   | Hexagon socket head cap screw | Chromium molybdenum steel | 4 pcs.    |
| 10  | Flange                        | Rolled steel              |           |

## Additional information

Catalogue

[MK-A\\_EU.pdf](#)