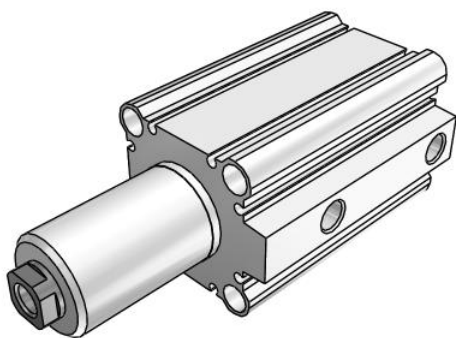




## MK-Z Rotary Clamp Cylinder, Standard w/Auto Switch Mounting Grooves MKB50TF-30RZ

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.



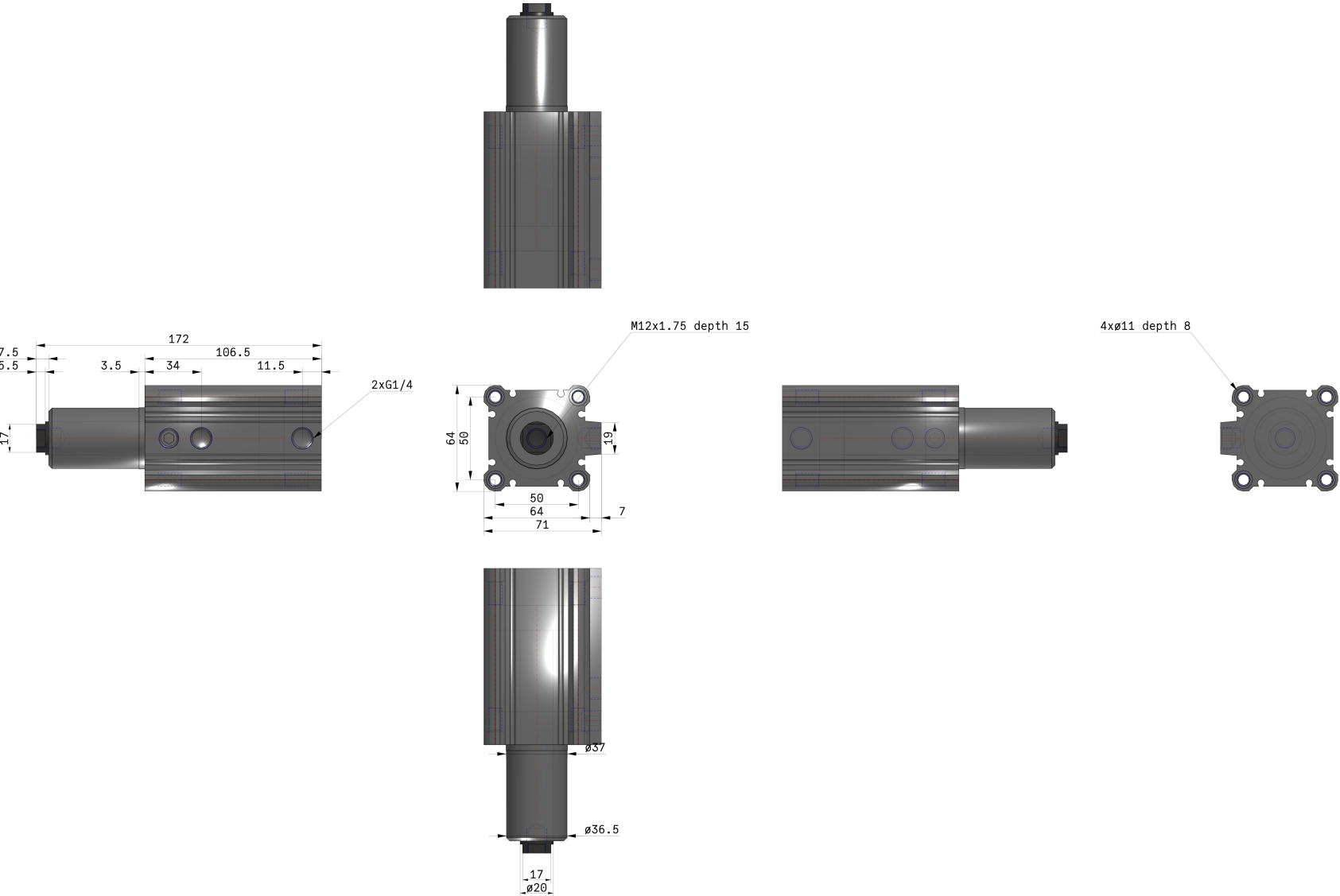
Double-acting, single-rod cylinder

### Standard specifications

|                                                    |                                                     |
|----------------------------------------------------|-----------------------------------------------------|
| Mounting                                           | B (Through Hole/Both Ends Tapped Common (Standard)) |
| Bore Size                                          | Ø50 mm                                              |
| Number                                             | 2 pcs. (Or None in the Case of No Switch)           |
| Rotary Direction                                   | R (Clockwise)                                       |
| Port Thread                                        | TF (G)                                              |
| Lead Wire or Pre-wired Connector                   | 0.5 m (Or None in the Case of No Switch)            |
| Clamp Stroke                                       | 30 mm                                               |
| Auto Switch                                        | No Switch                                           |
| Body Option                                        | Standard (Female Thread)                            |
| 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                                             |

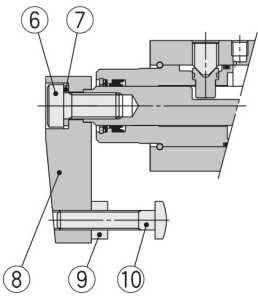
|                                                         |                      |
|---------------------------------------------------------|----------------------|
| Maximum ambient temperature                             | 70 °C                |
| Maximum ambient temperature with magnet                 | 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                              | G 1/4                |
| Pneumatic exhaust connection                            | G 1/4                |
| Mode of operation of drive                              | Double acting        |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 982 N                |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 825 N                |
| Maximum piston speed                                    | 200 mm/s             |
| Type of cushioning                                      | Rubber bumper        |
| Piston rod end                                          | Female thread        |
| Female thread of rod end                                | M12                  |
| Weight                                                  | 1.081 Kg             |

Dimensions

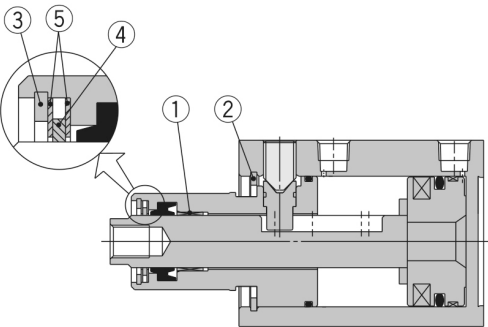


# Constructions

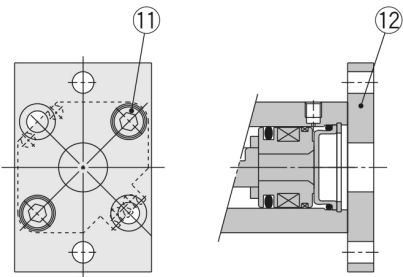
With arm (N)



New MK40 to 63



Head flange (G)



## Component Parts

| No. | Description                   | Material                  | Note        |
|-----|-------------------------------|---------------------------|-------------|
| 1   | Bushing                       | Copper bearing material   |             |
| 2   | Round R-type retaining ring   | Carbon tool steel         |             |
| 3   | Round R-type retaining ring   | Carbon tool steel         |             |
| 4   | Coil scraper                  | Phosphor bronze           |             |
| 5   | Scraper pressure              | Stainless steel           |             |
| 6   | Hexagon socket head cap screw | Chromium molybdenum steel |             |
| 7   | Spring washer                 | Hard steel                |             |
| 8   | Arm                           | Rolled steel              |             |
| 9   | Hexagon nut                   | Rolled steel              |             |
| 10  | Clamp bolt                    | Chromium molybdenum steel |             |
| 11  | Hexagon socket head cap screw | Chromium molybdenum steel | ø40: 4 pcs. |
| 12  | Flange                        | Rolled steel              |             |

Additional information  
Catalogue

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