

MK-Z Rotary Clamp Cylinder, Standard w/Auto Switch Mounting Grooves

MKB12-20RZ

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

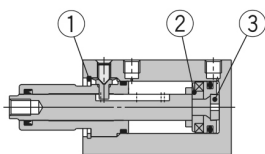
Standard specifications

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	20 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

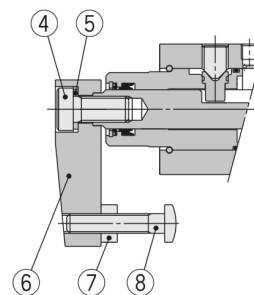
Maximum ambient temperature	70 °C
Maximum ambient temperature with magnet	60 °C
Minimum ambient temperature	-10 °C (No freezing)
Minimum ambient temperature with magnet	-10 °C (No freezing)
Number of pneumatic connections	2 pcs.
Pneumatic input connection	M5
Pneumatic exhaust connection	M5
Mode of operation 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	0.084 Kg

Constructions

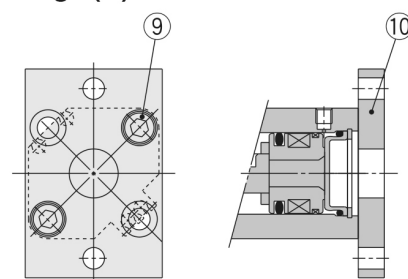
New MK12, 16



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](#)