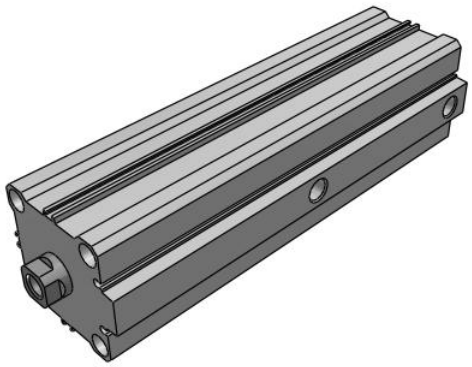


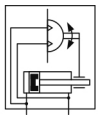
MK2T, Rotary Clamp Cylinder, Double Guide Type

MK2TB50TF-50L

Datasheet

General series information

- Larger allowable moment of inertia.
- Horizontal mounting is now possible.
- Anti-rotational and rotational accuracies improved.



Rotary clamp cylinder

Standard specifications

Mounting	B (Through Hole Both Ends Tapped Common)
Bore Size	50 mm
Cylinder Port	TF (G)
Stroke	50 mm
Rotation	L (Left Rotation)
Body Option	Standard (Female Thread)
Auto Switch	No Switch
Lead Wire or Prewired Connector	0.5 m (Or None in the Case of No Switch)
Number	2 pcs. (Or None in the Case of No Switch)
X Option	None
Maximum operating pressure	1 MPa
Minimum operating pressure	0.1 MPa
Proof pressure	1.5 Mpa
Maximum ambient temperature	Without auto switch: –10 to 70°C (No freezing) With auto switch: –10 to 60°C (No freezing)
Minimum ambient temperature	-10°
Type of cushioning	Rubber Bumper
Non-rotating accuracy of plate	±0.5°
Port size	G1/4
Lubrication	Non-lube

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Fluid	Air
Stroke length tolerance	+ 1.0 0
Rotary stroke	33
Clamp stroke	20, 50
Theoretical clamp force (at 0.5 MPa.)	20, 50
Piston speed	50 - 200 mm/s
Rotation angle	90° ±5°
Weight	1.231 Kg

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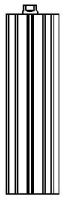
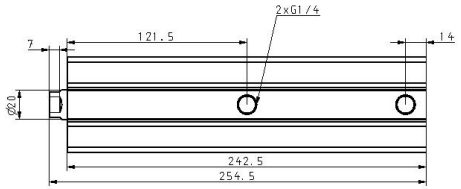
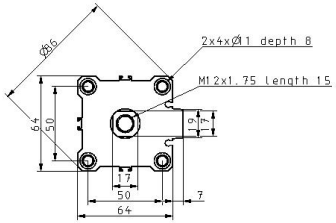
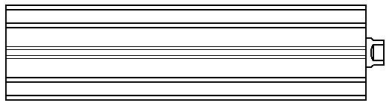
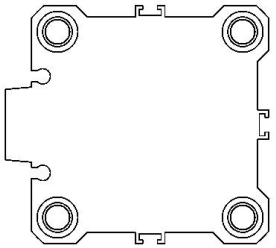
Dimensions

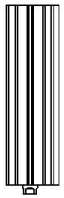












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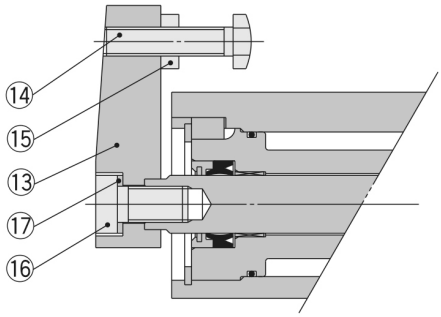
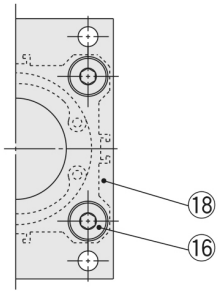
Constructions

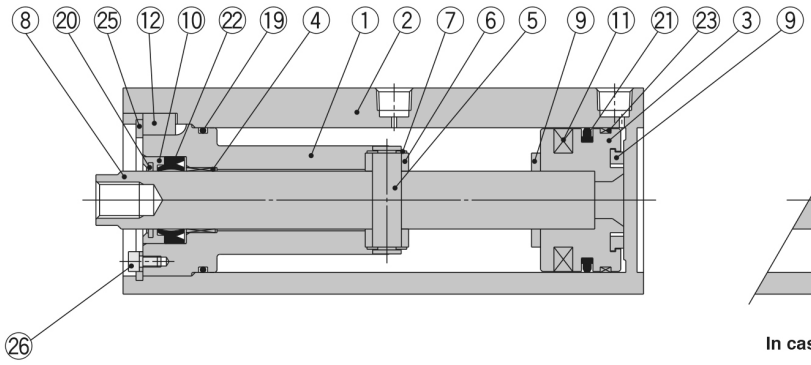
MK2T□20 to 63

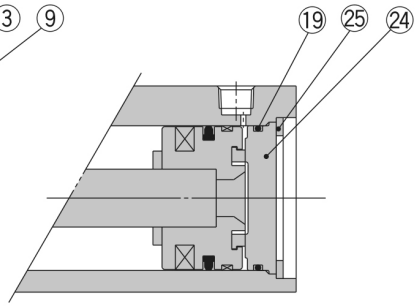
With arm (N)



Head end flange (G)







In case of clamp stroke 50 mm

Component Parts

No.	Description	Material	Note
1	**Rod cover**	Structural steel	Electroless nickel plated
2	**Cylinder tube**	Aluminium alloy	Anodic oxide coating
3	**Piston**	Aluminium alloy	Trivalent chromated
4	**Bushing**	Oil-impregnated sintered alloy	ø20, ø25
		Bronze casted	ø32 to ø63
5	**Guide shaft**	Stainless steel	ø20, ø25: Hard chrome plated
		Structural steel	ø32 to ø63: Hard chrome plated
6	**Guide roller**	Structural steel	
7	**Retaining ring**	Steel for special applications	ø20, ø25: Phosphate coating
			ø32 to ø63: Zinc trivalent chromated
8	**Piston rod**	Stainless steel	ø20, ø25: Hard chrome plated
		Structural steel	ø32 to ø63: Hard chrome plated
9	**Bumper**	Urethane	
10	**Seal retainer**	Aluminium alloy	Trivalent chromated
11	**Magnet**	—	
12	**Key**	Structural steel	Zinc trivalent chromated

Component Parts

No.	Description	Material	Note
13	**Arm**	Structural steel	Electroless nickel plated
14	**Clamp bolt**	Structural steel	Electroless nickel plated
15	**Hexagon nut**	Structural steel	Nickel plated
16	Hexagon socket head cap screw	Structural steel	Nickel plated
17	**Spring washer**	Steel wire	Nickel plated
18	**Flange**	Structural steel	Nickel plated
19	**Gasket**	NBR	
20	**Coil scraper**	Bronze	
21	**Piston seal**	NBR	
22	**Rod seal**	NBR	
23	**Wear ring**	Resin	
24	**Bottom plate**	Aluminium alloy	Anodic oxide coating
25	**Retaining ring**	Steel for special applications	Phosphate coating
26	**Hexagon socket head cap screw (with SW)**	Structural steel	Nickel plated (ø40 to ø63 only)
	Washer	Stainless steel	ø25, ø32 only
	Hexagon socket head cap screw	Structural steel	Nickel plated (ø25, ø32 only)

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Additional information

Catalogue MK_MK2_EU.pdf

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