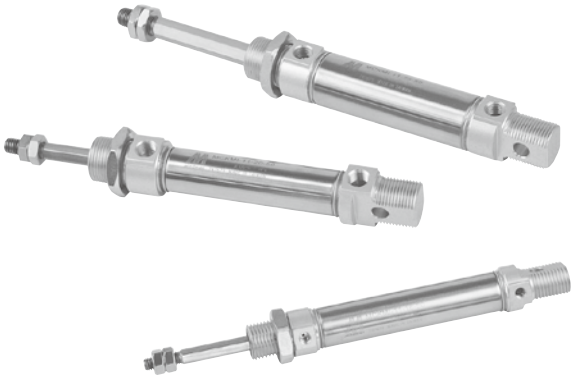
MCKMI series

ISO 6432 **MINIATURE CYLINDER** WITH NON-ROTATING ROD

mindman



Features

- ISO 6432 standard.
- Stainless steel rod and tube for good corrsion resistance.
- Comprehensive types of mounting accessories available.
- Hexagonal rod design provides rod non-rotaion function.
- Magnetic as standard.

Table for standard stroke

Tube I.D.	Stroke (mm)
ø16	15,25,50,75,100,125,150,200
ø20,25	15,25,50,75,100,125,150,200,250,300

* Please contact us if the stroke is out of specification.

Tightening torque

Tube I.D.	Rod thread	Tightening torque (kgf·cm)
ø16	M6×1.0	41
ø20	M8×1.25	100
ø25	M10×1.25	190

* Make sure the tightening torque of rod thread does not exceed the value above.
* The tolerance of tightening torque is ±5%.

Specification

Model		MCKMI		
Tube I.D. (mm)		16	20	25
Port size		M5×0.8	G1/8	
Medium		Air		
Operating perssure range		0.06~0.7 MPa		
Proof pressure		1 MPa		
Lubricator		Not required		
Ambient temperature		-5°C~+60°C (No freezing)		
Available speed range		50~750 mm/sec		
Max. allowable kinetic energy (J)	Cushion pad	0.09	0.27	0.4
	Cushion air	—	0.66	0.97
Rod non-rotating accuracy		±1°	±0.7°	
Allowable rotational torque		0.4 kgf-cm	2.0 kgf-cm	2.5 kgf-cm
Sensor switch (band) (*1)		RCM(BM16)	RCM(BM20)	RCM(BM25)

*1. RCM specification, Please refer to page 8-16.
*2. The cylinder is allowed little leakage. Before the cylinder is sale, it has passed the standard of leakage test.
*3. For precautions, please refer to page 3-2.

Order example

MCKMI — 11 — 20 — 100 — A — N

- MCKMI: MODEL
- 11: **1**: Single rod; TUBE I.D.: 20
- 100: STROKE
- A: Blank: Cushion pad (Unadjustable); **A**: Cushion air (Adjustable) ⚠ (Only for ø20, 25)
- N: Blank: Standard; **N**: Non-pivot type (end-plain)

STYLE

Code		Symbol	Description
1	1		Double acting / Male thread

Mounting accessories

* Use the same accessories with MCMI.

FA — MCMI — 20

- FA: MODEL
- 20: TUBE I.D.

MOUNTING TYPE * **Y**, **I**, **YS**, please refer to page 3-14.

	LB		Y
	FA		I
	FB		YS (Y+Floating pin)
	SDB		

Pin

* Use the same pin with MCMI.

PIN — MCMI — 16 — Y — P

- PIN: PIN
- MCMI: MODEL
- 16: TUBE I.D.
- Y: Mounting type
- P: Description

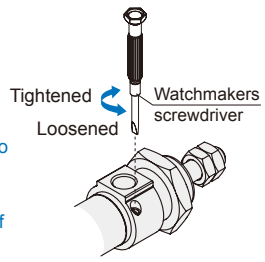
Mounting type		Description
SDB-P		for SDB accessory
Y-P	ø16 / ø20,ø25	for Y & I connector
Y-S		for Y connector (*1) and ø20~25

*1. ø16 tube I.D. use this order: **YS-MCMI-16**.
*2. **P**: With split pin / Snap ring, **S**: Floating pin

⚠ Caution

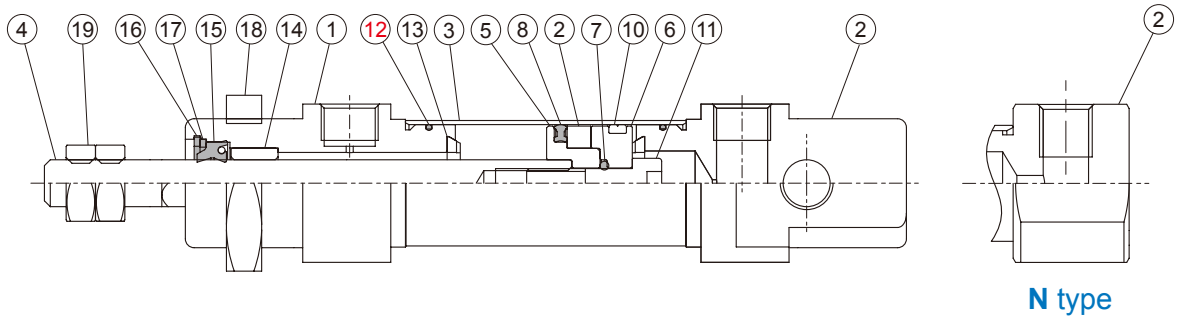
For (**A**) Cushion air (Adjustable)

1. To adjust a cushion needle, please slowly turn the needle valve from the fully closed status to the required status which needs to be within 2.5 turns.
2. If the needle valve loosen excessively, the buffer doesn't take effect and the lifetime of cylinder would be shortened.



Cushion pad Unadjustable

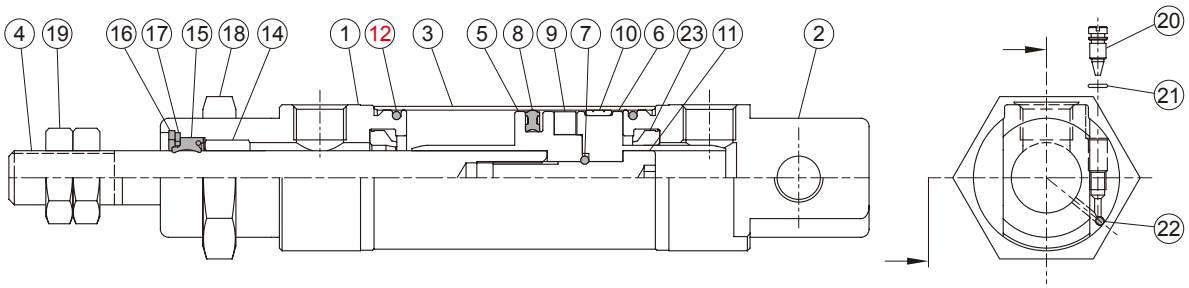
ø16~ø25



N type

Cushion air Adjustable

ø20, ø25



Material

No.	Cushion		Part name	Tube I.D.			Q'y	Component parts (inclusion)	
	Pad	Air		16	20	25		Pad	Air
1	●	●	Rod cover	Aluminum alloy			1	●	●
2	●	●	Head cover	Aluminum alloy			1	●	●
3	●	●	Tube	Stainless steel			1		
4	●	●	Piston rod	Stainless steel			1		
5	●	●	Piston-R	Aluminum alloy			1	●	●
6	●	●	Piston-H	Aluminum alloy			1	●	●
7	●	●	Piston gasket	NBR			1	●	●
8	●	●	Piston packing	NBR			1	●	●
9	●	●	Magnet ring	Magnet material			1	●	●
10	●	●	Wear ring	Resin			1	●	●
11	●	●	Piston bolt	SCM			1	●	●
12	●	●	Cover ring	NBR	–		2	●	●
13	●	●	Cushion gasket	NBR	TPU		2	●	●
14	●	●	Rod bush	Bearing alloy			1	●	●
15	●	●	Rod packing	NBR			1	●	●
16	●	●	Snap ring	Spring steel			1	●	●
17	●	●	Washer	Carbon steel			1	●	●
18	●	●	Tie nut	Carbon steel			1	●	●
19	●	●	Rod front nut	Carbon steel			2	●	●
20		●	Needle valve	Stainless steel			2		●
21		●	Needle valve packing	NBR			2		●
22		●	Steel ball	Stainless steel			2		●
23		●	Cushion packing	NBR			2		●

Order example

Component parts

Tube I.D.	Cushion pad
ø16	**CP-MCKMI-16**
ø20	**CP-MCKMI-20**
ø25	**CP-MCKMI-25**

Tube I.D.	Cushion air
ø16	**CP-MCKMI-16A**
ø20	**CP-MCKMI-20A**
ø25	**CP-MCKMI-25A**