



Features

■ Non lubrication

- Special housing and bushing enables self lubrication of piston rod.

■ High quality long service life

- Cylinder with hexagonal rod design enables non-rotation of rod.
- Hard anodised stainless steel cylinder tubes offer a high resistance to corrosion and low internal friction.
- Cylinder mountings, available with a comprehensive range of accessories for rigid or flexible mounting.
- Magnetic as standard.

Specification

Model	MCKMB				
Tube I.D. (mm)	20	25	32	40	
Port size	Rc1/8			Rc1/4	
Medium	Air				
Operating pressure	0.05 ~ 0.7 MPa				
Proof pressure	1 MPa				
Ambient temperature	-5~+60°C (No freezing)				
Lubricator	Not required				
Available speed range	50~500 mm/sec				
Max. allowable kinetic energy (J)	Cushion pad	0.27	0.4	0.65	1.2
	Adjustable cushion	0.54	0.78	1.27	2.35
Rod non-rotating accuracy	± 0.7°			± 0.5°	
Allowable rotational torque	2.0 kgf-cm	2.5 kgf-cm	2.5 kgf-cm	4.5 kgf-cm	

Table for standard stroke

Tube I.D.	Stroke (mm)
φ20, 25, 32, 40	25, 50, 75, 100, 125, 150, 200, 250, 300

※ Please consult us if stroke out of specification.

Sensor switch / Sensor switch band

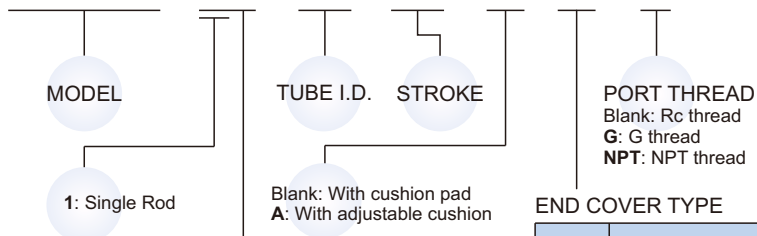
Sensor switch (※1)	RCA, RCM			
	BA20	BA25	BA32	BA40
Sensor switch band (※2)	BGS20	BGS25	BGS32	BGS40
	BM20	BM25	BM32	BM40

※1. RCA, RCM specification, please refer to page 8-6, 13.

※2. Sensor switch band BM** only for RCM.

Order example

MCKMB - 11 - 40 - 50 - A - N - G



STYLE

Code	Symbol	Description
1		Double acting / Male thread

※ Order example for special specification, refer to page 0-7.

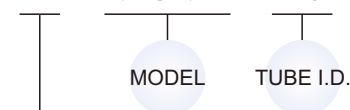
END COVER TYPE

Code	Symbol
Blank	Standard type
N	End -plain
E	With pivot type

Mounting accessories

LB - MCMB - 40

※ Use the same accessories with MCMB.



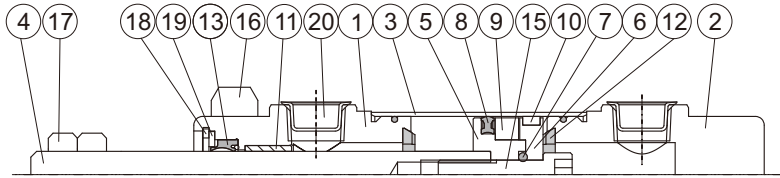
MOUNTING TYPE

	LB
	CA
	CB
	FA
	FB
	SDB
	TA
	TB
	Y
	I

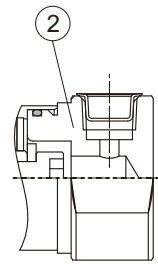
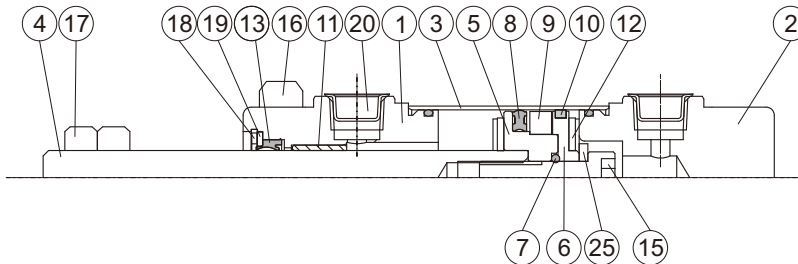
for end cover "E" type

Cushion pad type

$\phi 20, \phi 40$

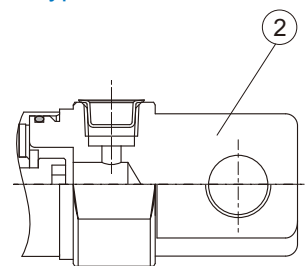
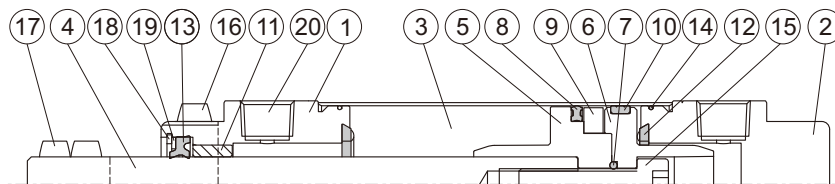


$\phi 25$



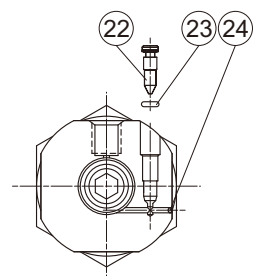
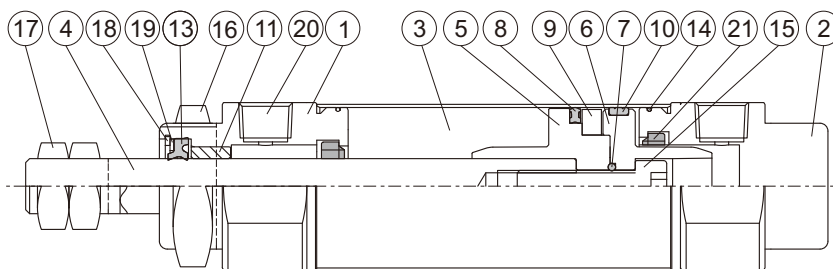
N type: $\phi 20 \sim \phi 40$

$\phi 32$



Cushion air type

E type: $\phi 25 \sim \phi 40$



Material

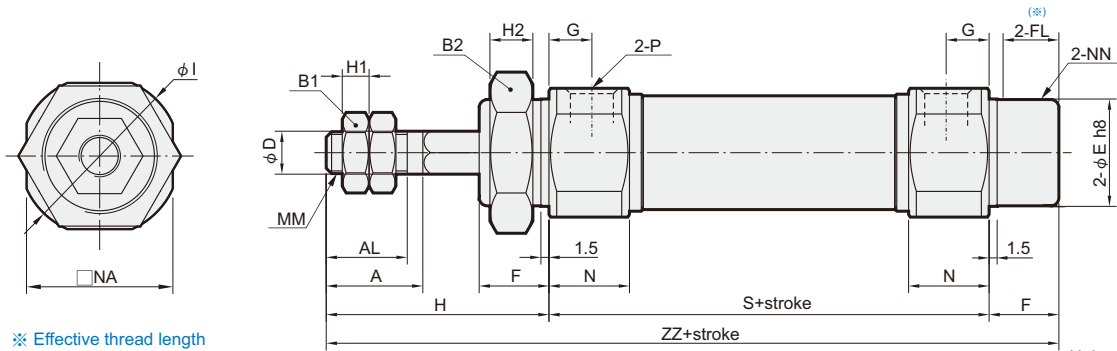
No.	Cushion		Part name	Material
	Pad	Air		
1	●	●	Rod cover	Aluminum alloy
2	●	●	Head cover	Aluminum alloy
3	●	●	Tube	Stainless steel
4	●	●	Piston rod	Stainless steel
5	●	●	Piston-R	Aluminum alloy
6	●	●	Piston-H	Aluminum alloy
7	●	●	Piston gasket	NBR
8	●	●	Piston packing	NBR
9	●	●	Magnet ring	Magnet material
10	●	●	Wear ring	Teflon + Graphite
11	●	●	Rod bush	Bearing alloy
12	●	●	Cushion gasket	NBR
13	●	●	Rod packing	NBR

No.	Cushion		Part name	Material
	Pad	Air		
14	●	●	Cover ring	NBR
15	●	●	Piston bolt	SCM
16	●	●	Tie nut	Carbon steel
17	●	●	Rod front nut	Carbon steel
18	●	●	Snap ring	Spring steel
19	●	●	Washer	Carbon steel
20	●	●	Port plug	Plastic
21		●	Cushion packing	NBR
22		●	Needle valve packing	NBR
23		●	Needle valve	Carbon steel
24		●	Steel ball	Stainless steel
25	●		washer	Carbon steel

MINIATURE CYLINDER WITH NO-ROTATION

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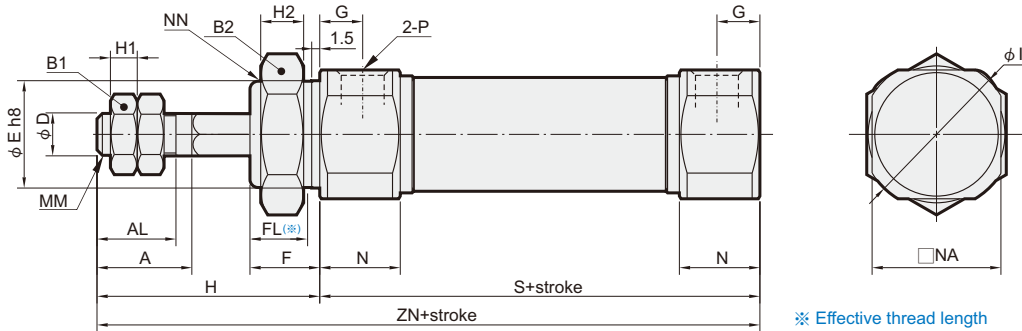


※ Effective thread length

Unit: mm

Code Tube I.D.	A	AL	B1	B2	D	E	F	FL	G	H	H1	H2	I	MM	N	NA	NN	P	S	ZZ
20	18	15.5	13	26	8	20 ⁰ _{-0.03}	13	10.5	8	41	5	8	28	M8×1.25	15	24	M20×1.5	Rc1/8	62	116
25	22	19.5	17	32	10	26 ⁰ _{-0.03}	13	10.5	8	45	6	8	33.5	M10×1.25	15	30	M26×1.5	Rc1/8	62	120
32	22	19.5	17	32	12	26 ⁰ _{-0.03}	13	10.5	8	45	6	8	37.5	M10×1.25	15	34.5	M26×1.5	Rc1/8	64	122
40	24	21	22	41	14	32 ⁰ _{-0.04}	16	13.5	11	50	8	10	46.5	M14×1.5	21.5	42.5	M32×2.0	Rc1/4	88	154

N

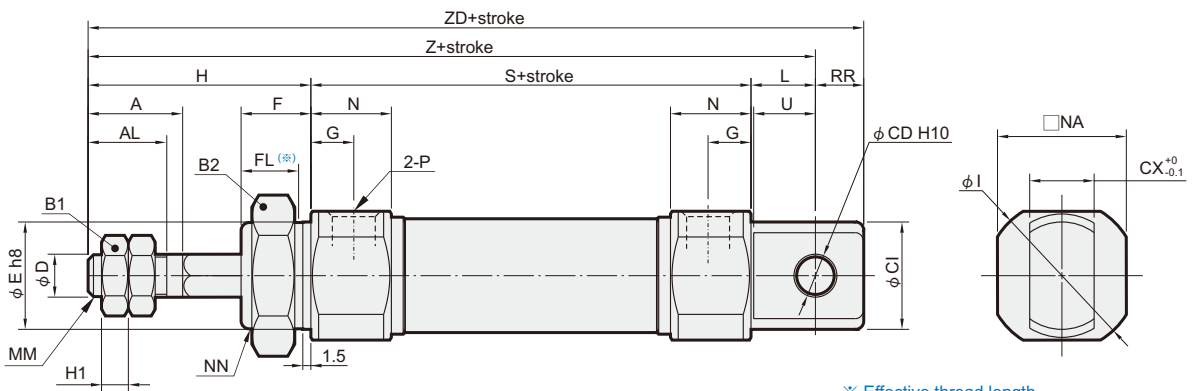


※ Effective thread length

Unit: mm

Code Tube I.D.	A	AL	B1	B2	D	E	F	FL	G	H	H1	H2	I	MM	N	NA	NN	P	S	ZN
20	18	15.5	13	26	8	20 ⁰ _{-0.03}	13	10.5	8	41	5	8	28	M8×1.25	15	24	M20×1.5	Rc1/8	62	103
25	22	19.5	17	32	10	26 ⁰ _{-0.03}	13	10.5	8	45	6	8	33.5	M10×1.25	15	30	M26×1.5	Rc1/8	62	107
32	22	19.5	17	32	12	26 ⁰ _{-0.03}	13	10.5	8	45	6	8	37.5	M10×1.25	15	34.5	M26×1.5	Rc1/8	64	109
40	24	21	22	41	14	32 ⁰ _{-0.04}	16	13.5	11	50	8	10	46.5	M14×1.5	21.5	42.5	M32×2.0	Rc1/4	88	138

E



※ Effective thread length

Unit: mm

Code Tube I.D.	A	AL	B1	B2	CD	CX	CI	D	E	F	FL	G	H	H1	I	L	MM	N	NA	NN	P	RR	S	U	Z	ZD
20	18	15.5	13	26	8	12	20	8	20 ⁰ _{-0.03}	13	10.5	8	41	5	28	12	M8×1.25	15	24	M20×1.5	Rc1/8	9	62	11.5	115	124
25	22	19.5	17	32	8	12	22	10	26 ⁰ _{-0.03}	13	10.5	8	45	6	33.5	12	M10×1.25	15	30	M26×1.5	Rc1/8	9	62	11.5	119	128
32	22	19.5	17	32	10	20	27	12	26 ⁰ _{-0.03}	13	10.5	8	45	6	37.5	15	M10×1.25	15	34.5	M26×1.5	Rc1/8	12	64	14.5	124	136
40	24	21	22	41	10	20	33	14	32 ⁰ _{-0.04}	16	13.5	11	50	8	46.5	15	M14×1.5	21.5	42.5	M32×2.0	Rc1/4	12	88	14.5	153	165