



Table for standard stroke

Tube I.D.	Stroke (mm)
ø20,25,32,40	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)	RCM			
Sensor switch band	BM20	BM25	BM32	BM40

*1. RCM specification, please refer to page 8-13.

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

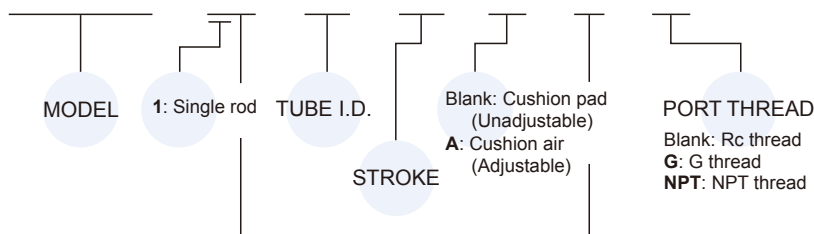
Specification

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

* The cylinder is allowed little leakage. Before the cylinder is sale, it has passed the standard of leakage test.

Order example

MCKMB — 11 — 40 — 50 — A — N — G



Code	Symbol	Description
1 1		Double acting / Male thread

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

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

* Use the same accessories with MCMB.

Mounting accessories

LB — MCMB — 20



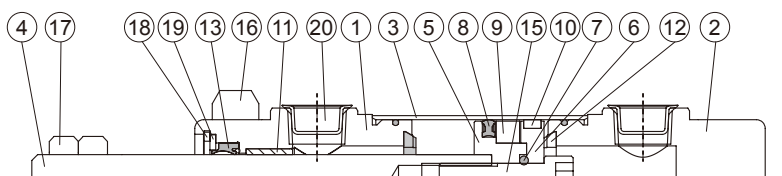
	LB
	CA
	CB
	FA
	FB
	SDB
	TA
	TB
	Y
	I

for end cover "E" type

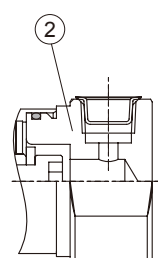
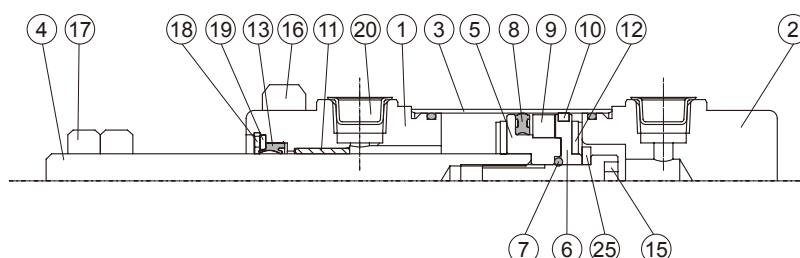
Cushion pad

Unadjustable

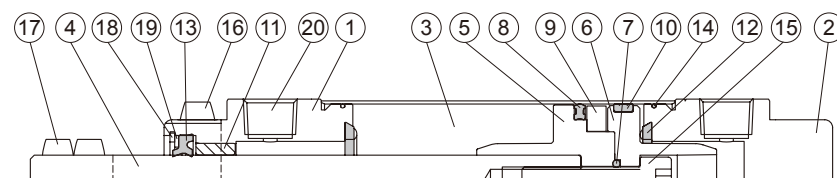
ø20, ø40



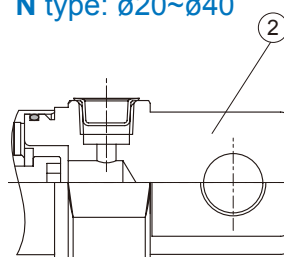
ø25



ø32



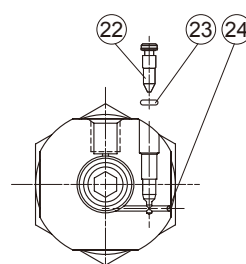
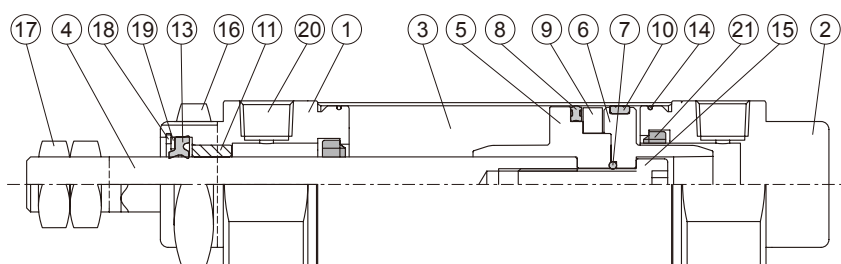
N type: ø20~ø40



Cushion air

Adjustable

E type: ø25~ø40

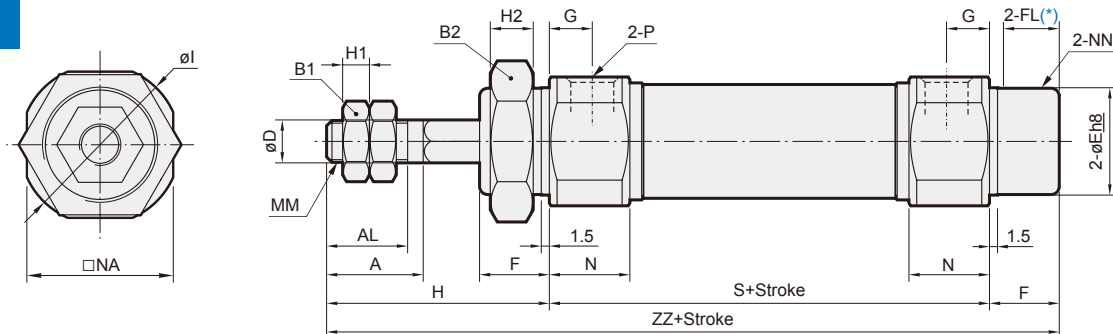


Material

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

No.	Cushion		Part name	Material
	Pad	Air		
13	●	●	Rod packing	NBR
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

11

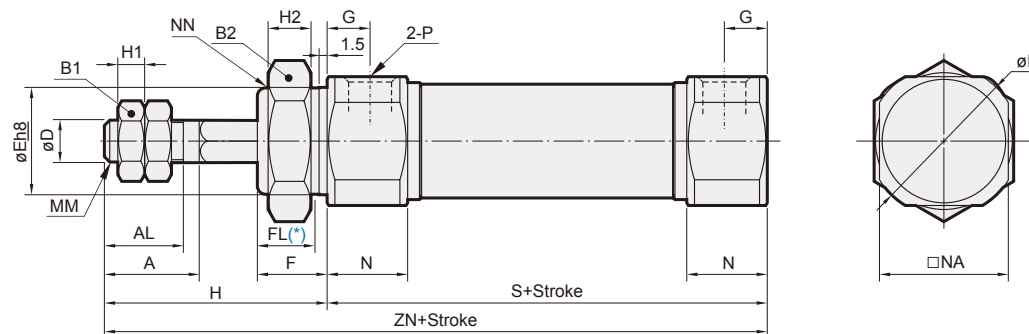


* FL: Effective thread length

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 _{-0.03}	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 _{-0.03}	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 _{-0.03}	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 _{-0.04}	16	13.5	11	50	8	10	46.5	M14×1.5	21.5	42.5	M32×2.0	Rc1/4	88	154

N

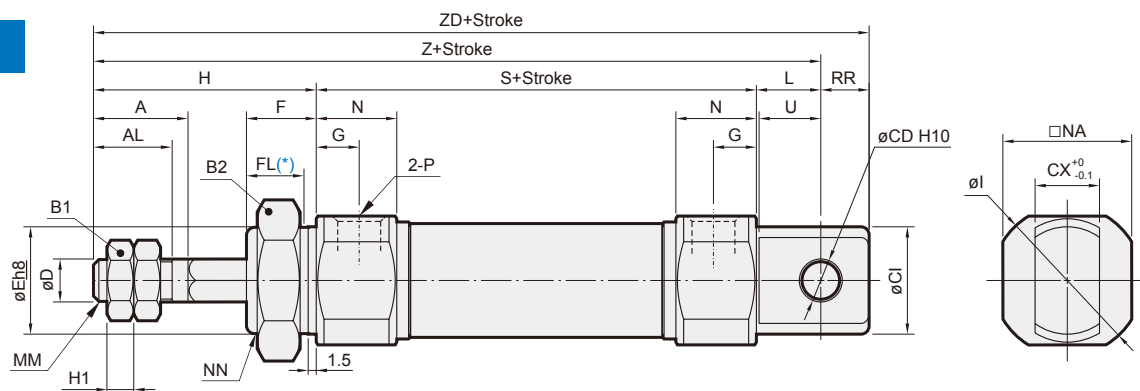


* FL: Effective thread length

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 _{-0.03}	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 _{-0.03}	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 _{-0.03}	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 _{-0.04}	16	13.5	11	50	8	10	46.5	M14×1.5	21.5	42.5	M32×2.0	Rc1/4	88	138

E



* FL: 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 _{-0.03}	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 _{-0.03}	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 _{-0.03}	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 _{-0.04}	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