

MCKMB series

MINIATURE CYLINDERS with no-rotation



Table for standard stroke:

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

Order example:

MCKMB — 11 — 40 — 50 — N — BSP

MODEL

TUBE I.D. STROKE

PORT THREAD
Blank: PT thread
BSP: BSP thread
NPT: NPT thread

1: Single Rod

END COVER TYPE:

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

STYLE:

Code	Symbol	Description
1 1		Double acting / Male thread

※ Order example for special specification, refer to page H-03.

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)	40
Port size	PT 1/4
Medium	Air
Operating pressure	0.5~7 kgf/cm ²
Proof pressure	10 kgf/cm ²
Ambient temperature	-5~+60°C (No freezing)
Lubricator	Not required
Available speed range	50~500 mm/sec
Rod non-rotating accuracy	± 0.5°
Allowable rotational torque	4.5 kgf-cm
Sensor switch	RCA, RCM
Sensor switch band	BA40, BGS40, BM40

- Sensor switch band BM** only for RCM.
- The cylinder is allowed little leakage. Before the cylinder is sale, it has passed the standard of leakage test.

Mounting accessories: ※ Use the same accessories with MCKMB

LB — MCKMB — 40

MODEL

TUBE I.D.

MOUNTING TYPE

	LB
	CA
	CB
	FA
	FB
	SDB
	TA
	TB
	Y
	I

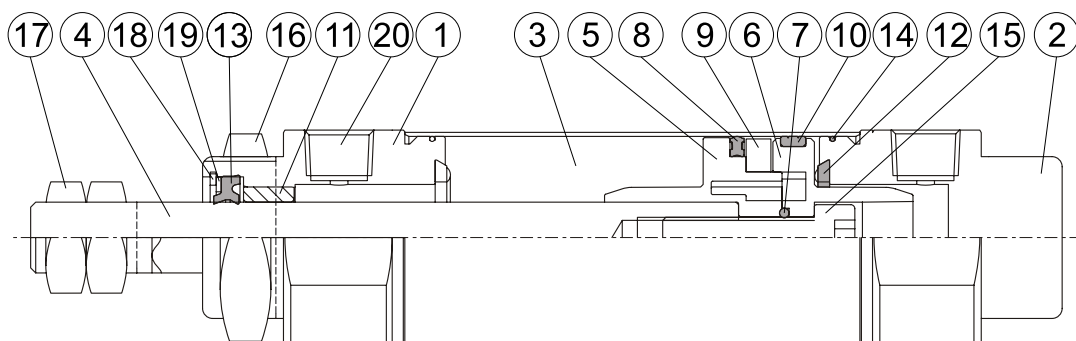
for end cover "E" type

MCKMB Inside structure & Parts list

MINIATURE CYLINDERS with no-rotation



mindman



Material :

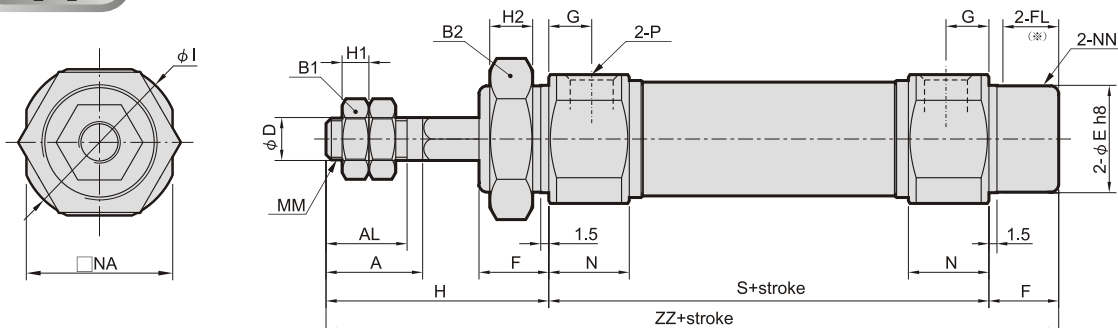
No.	Part name	Material
1	Rod cover	Aluminum alloy
2	Head cover	Aluminum alloy
3	Tube	Stainless steel
4	Piston rod	Stainless steel
5	Piston-R	Polyurethane
6	Piston-H	Polyurethane
7	Piston gasket	NBR
8	Piston packing	NBR
9	Magnet ring	Magnet material
10	Wear ring	Teflon + Graphite
11	Rod bush	Bearing alloy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

MCKMB Dimensions

MINIATURE CYLINDERS with no-rotation



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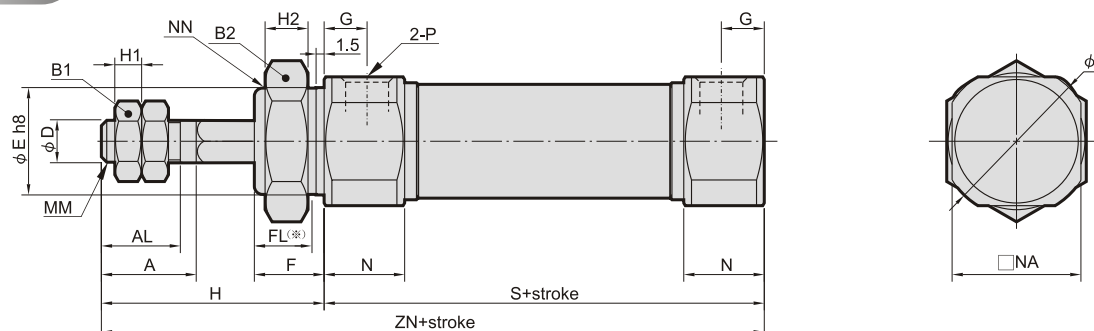


(※) Effective thread length

(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
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	PT 1/4	88	154

N

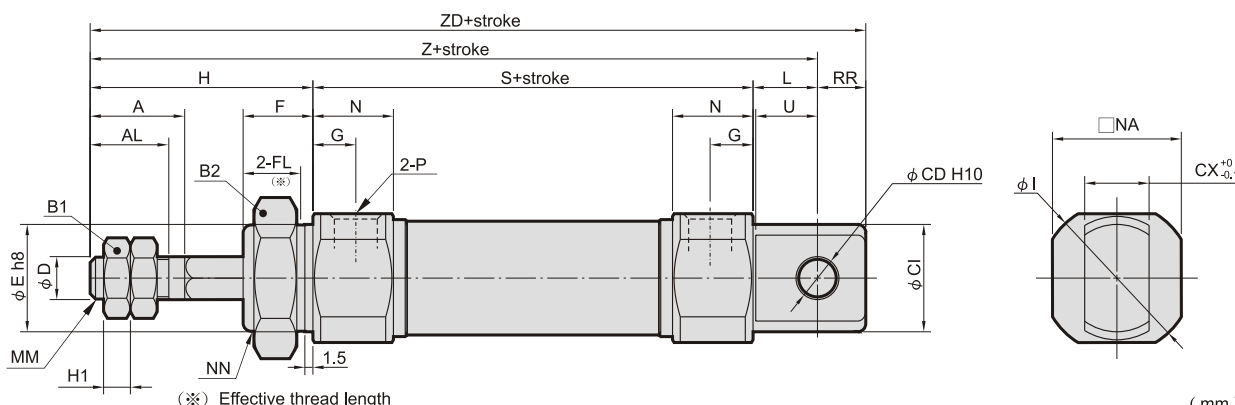


(※) Effective thread length

(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
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	PT 1/4	88	138

E



(※) Effective thread length

(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
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	PT1/4	12	88	14.5	153	165