



Special spec



Technical data



Caution for safety
(Read before installing)



Table for standard stroke

Tube I.D.	Stroke (mm)	Max. stroke (mm)
ø16	15,25,50,75,100,125,150,200	500
ø20	↑ 250,300	300
ø25		500

* Intermediate stroke are available, please contact us.

Tightening torque

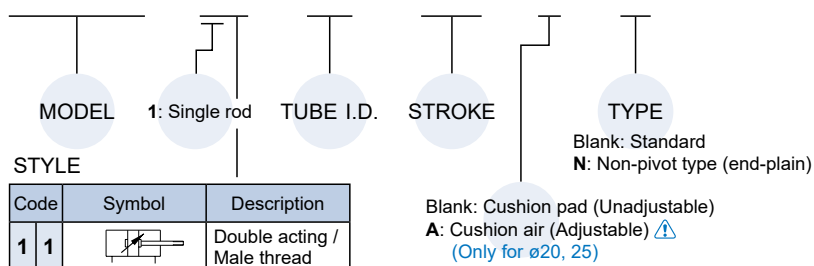
Tube I.D.	Rod thread	Tightening torque (kgf-cm)
ø16	M6×1.0	41
ø20	M8×1.25	100
ø25	M10×1.25	190

* Make sure the tightening torque of rod thread does not exceed the value above.

* The tolerance of tightening torque is ±5%.

Order example

MCKMI - 11 - 20 - 100 - A - N



Caution

- For (A) Cushion air (Adjustable) (Fig.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.
 - If the needle valve loosen excessively, the buffer doesn't take effect and the lifetime of cylinder would be shortened.
- Please don't attempt to rotate the piston rod. (Fig.2)

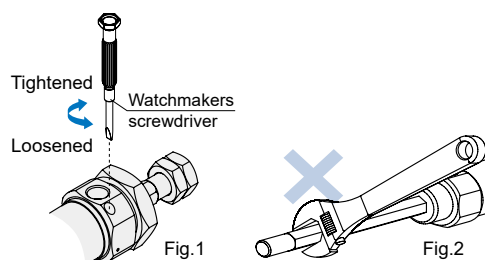
Features

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

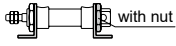
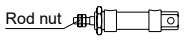
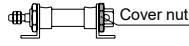
Specification

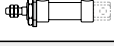
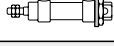
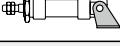
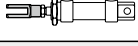
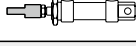
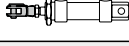
Model		MCKMI		
Tube I.D. (mm)		16	20	25
Port size		M5×0.8	G1/8	
Medium		Air		
Operating perssure range		0.06~0.7 MPa		
Proof pressure		1 MPa		
Lubricator		Not required		
Ambient temperature		-5°C~-+60°C (No freezing)		
Available speed range		50~750 mm/sec		
Max. allowable kinetic energy (J)	Cushion pad	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		RDC, RQC  , RDT, RQT  , RCM 		
Sensor switch band	R°C	BKC-1 (Not for R°CV angle cable)		
	R* T	BKT-1		
	RCM	BM16	BM20	BM25

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



Accessories & Connector

Accessories				
Code	LB (LB×2, with cover nut ×1)	LB (LB×1, without cover nut)	NUT	
Cover type	Standard type	Non-pivot type (N)	—	
Mounting Tube I.D.			Rod nut 	
ø16	LB-M3-12x2	LB-M3-12	NUT-M6x1.0x5Hx10B	NUT-M16x1.5x6Hx22B
ø20	LB-M3-20x2	LB-M3-20	NUT-M8x1.25x5Hx13B	NUT-M22x1.5x6Hx30B
ø25			NUT-M10x1.25x6Hx17B	

Accessories				Connector		
Code	FA	FB	SDB (with pin×1 + snap ring×2)	Y	I	YS (Y+Floating pin)
Cover type	All applicable	Standard type	Standard type	All applicable		
Mounting Tube I.D.						
ø16	FA-M3-12		SDB-M3-12	Y-M3-12	I-M3-12	YS-M3-16
ø20	FA-M3-20		SDB-M3-20	Y-M3-20	I-M3-20	YS-M3-20
ø25				Y-Q2-32	I-Q2-32	YS-Q2-32

* Y, I, YS, consulte la página 3-14.

Pin

Applicable	YS connector	Y&I connector	SDB connector
Code	PIN-S	PIN-Y-P (with split pin / snap ring)	PIN-SDB-P (with snap ring)
Fig Tube I.D.			
ø16	PIN-M3-16-S	PIN-M3-12-2-P	PIN-M3-12-1-P
ø20	PIN-M3-20-S	PIN-M3-20-2-P	PIN-M3-20-1-P
ø25	PIN-Q2-32-S	PIN-Q2-32-2-P	

Order example of self-assembled

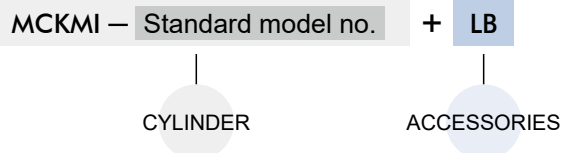
The tube I.D. ø16 of LB accessories, Y connector and pin.

No.	Order number	Qty
1	LB-M3-12x2	1
2	Y-M3-12	1
3	PIN-M3-12-2-P	1

* To order accessories/
connectors/ pin separately,
please place orders separately
according to the order codes
in the above table.

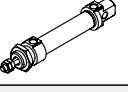
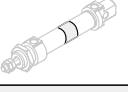
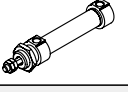
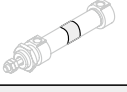
Order example of factory assembled

△ Cylinders and accessories are distinguished by the symbol " + ".



Cylinder weight

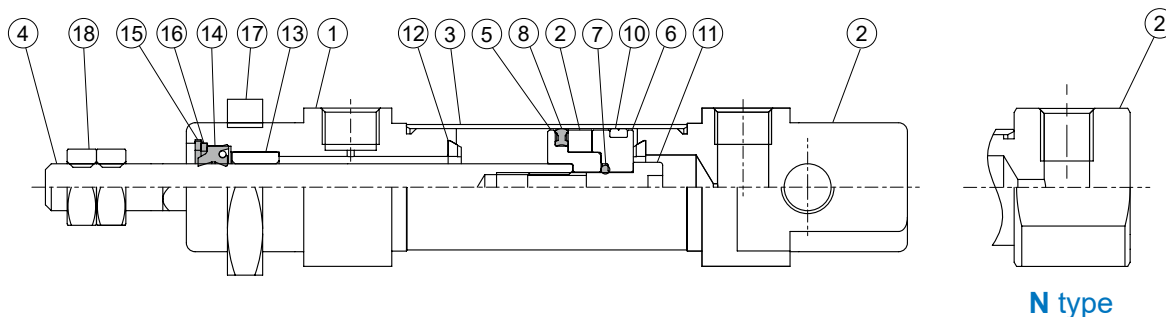
Unit: g

Model	Basic weight MCKMI	Stroke 25mm MCKMI	Basic weight MCKMI*-N	Stroke 25mm MCKMI*-N
Tube I.D.				
ø16	69	13.0	62	13.0
ø20	126	20.3	116	20.3
ø25	168	28.7	153	28.7

Cushion pad

Unadjustable

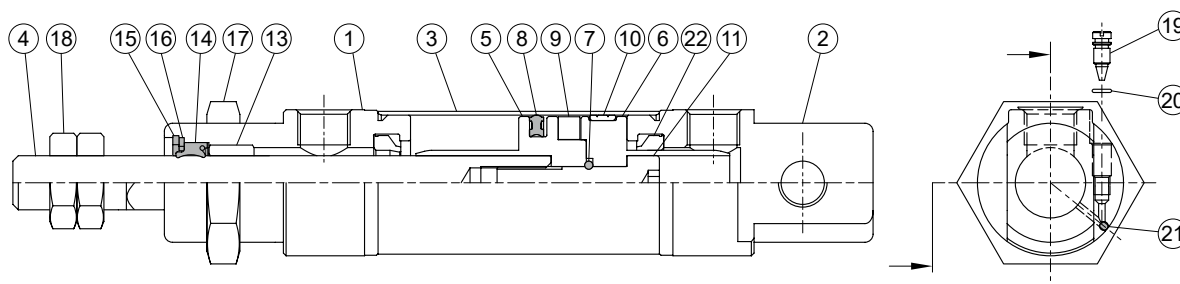
ø16~ø25



Cushion air

Adjustable

ø20, ø25



Material

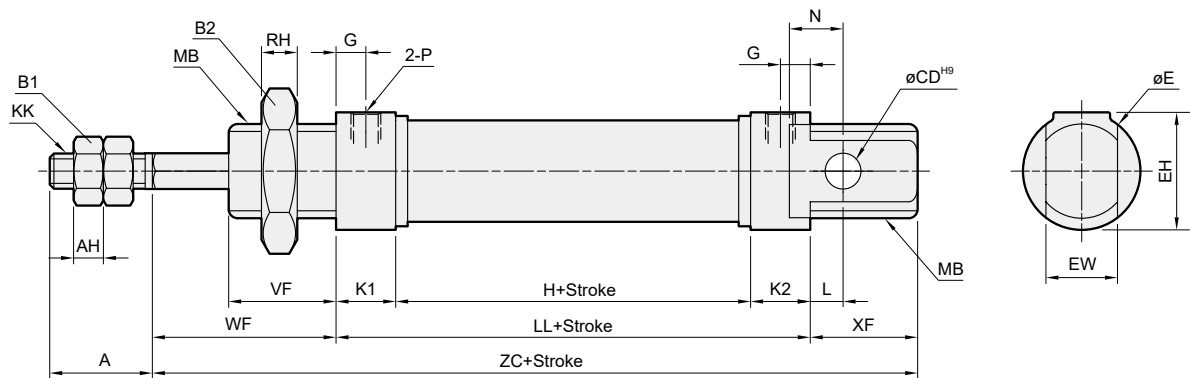
No.	Cushion		Part name	Tube I.D.			Q'y	Component parts (inclusion)	
	Pad	Air		16	20	25		Pad	Air
1	●	●	Rod cover	Aluminum alloy			1	●	●
2	●	●	Head cover	Aluminum alloy			1	●	●
3	●	●	Tube	Stainless steel			1		
4	●	●	Piston rod	Stainless steel			1		
5	●	●	Piston-R	Aluminum alloy			1	●	●
6	●	●	Piston-H	Aluminum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

Order example Component parts

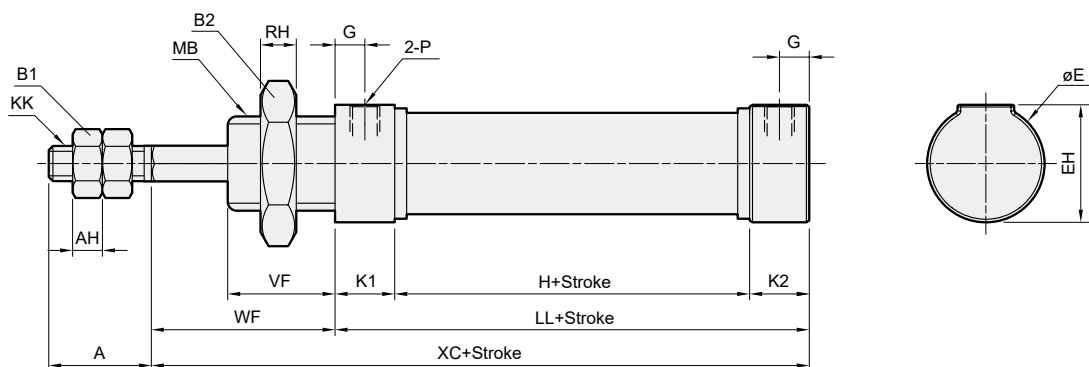
Tube I.D.	Cushion pad
ø16	CP-MCKMI-16
ø20	CP-MCKMI-20
ø25	CP-MCKMI-25

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

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N



Code Tube I.D.	A	AH	B1	B2	CD	E	EH	EW	G	H	KK	K1	K2	L	LL	MB	N	P	RH	VF
16	16	5	10	22	6	20	20	12 ^{-0.05/-0.4}	5	34.5	M6×1	10	10	5.5	54.5	M16×1.5	9	M5×0.8	6	18
20	20	5	13	30	8	27	27	16 ^{-0.05/-0.4}	8	38	M8×1.25	15	15	3	68	M22×1.5	12	G1/8	6	20
25	22	6	17	30	8	27	27	16 ^{-0.05/-0.4}	7.5	37	M10×1.25	15	15	9	67	M22×1.5	12	G1/8	6	22

Code Tube I.D.	WF	XC	XF	ZC
16	22	76.5	18	94.5
20	24	92	20	112
25	28	95	22	117