MCMJP series

PEN CYLINDERS

Mindman

Features:

- Space saving, compact design enables simple mounting.
- Flush fitting sensor switch.

Specification:

Model	MCMJP		
Acting type	Double acting		
Tube I.D. (mm)	6	10	16
Port size	M3×0.5		M5×0.8
Medium	Air		
Max. operating pressure	7 kgf/cm^2		
Min. operating pressure	1.2 kgf/cm^2		0.6 kgf/cm^2
Proof pressure	10 kgf/cm^2		
Ambient temperature	−5~+60℃ (No freezing)		
Lubrication	Not required		
Available speed range	50~500 mm/sec		
Sensor switch	RDF		

Table for standard stroke:

(mm)

Tube I.D.	Standard type	End -plain
ϕ6	5, 10, 15, 20, 25	5, 10, 15, 20
ϕ10	5, 10, 15, 20, 25, 30	5, 10, 15, 20
ϕ16	5, 10, 15, 20, 25, 30, 40	5, 10, 15, 20, 25

- It can't be supplied if the stroke is out of the maximum of above table.

Order example:

MCMJP − 11 − 6 − 10 M − E

- MCMJP: MODEL
- 11: STYLE
- 6: TUBE I.D.
- 10: STROKE
- M: Magnet
- E: TYPE

1: Single Rod

TYPE:

Code	Symbol	Description
Blank		Standard type
E		End -plain

STYLE

Code		Symbol	Description
1	**1**		Double acting / Male thread
1	**8**		Double acting / Threadless

Mounting accessories:

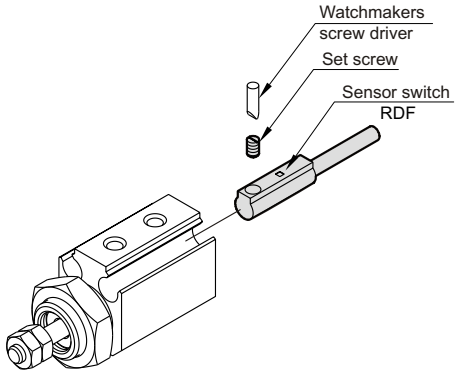
FA − MCMJP − 6

- FA: MOUNTING TYPE
- MCMJP: MODEL
- 6: TUBE I.D.

MOUNTING TYPE

	LB
	FA
	SDB

Installation of sensor switch:



MCMJP Inside structure & Parts list ϕ6~ϕ16

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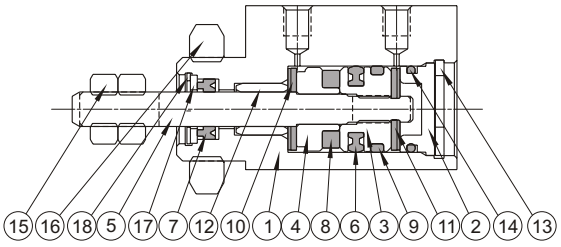
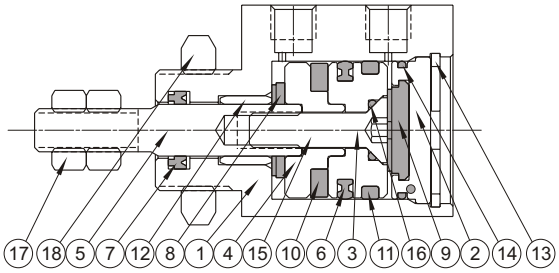
ϕ6, ϕ10



ϕ16



Material :

No.	Part name	Material	Note
1	Body	Aluminum alloy	
2	End cover	Aluminum alloy	
3	Piston	Aluminum alloy	
4	Piston	Aluminum alloy	For with magnet
5	Piston rod	Stainless steel	
6	Pistion packing	NBR	
7	Rod packing	NBR	
8	Magnet ring	Magnet material	For with magnet
9	Wear ring	Teflon	
10	Cushion	NBR	
11	Cushion	NBR	
12	Rod bush	Copper	
13	Stop ring	Carbon steel	
14	Cover ring	NBR	
15	Rod front nut	Copper	
16	Tie nut	Carbon steel	
17	Fixed ring	Aluminum alloy	
18	Stop ring	Carbon steel	

No.	Part name	Material	Note
1	Body	Aluminum alloy	
2	End cover	Aluminum alloy	
3	Piston	Aluminum alloy	
4	Piston	Aluminum alloy	For with magnet
5	Piston rod	Stainless steel	
6	Pistion packing	NBR	
7	Rod packing	NBR	
8	Cushion	NBR	
9	Cushion	NBR	
10	Magnet ring	Magnet material	For with magnet
11	Wear ring	Teflon	
12	Rod bush	Copper	
13	Stop ring	Carbon steel	
14	Cover ring	NBR	
15	Piston bolt	SCM	
16	Piston gasket	NBR	
17	Rod front nut	Copper	
18	Tie nut	Carbon steel	

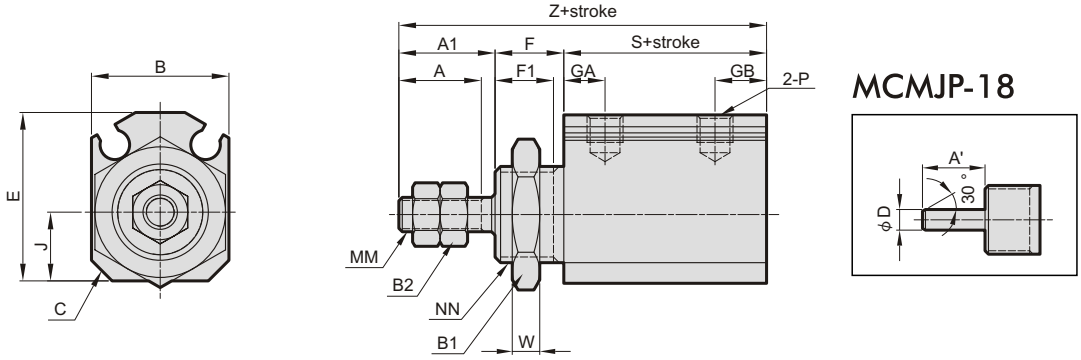
Cylinder weight :

(unit:g)

Stroke (mm)	**11** : Male thread			**18** : Threadless		
	ϕ6	ϕ10	ϕ16	ϕ6	ϕ10	ϕ16
5	19	29	46	18	28	45
10	21	31	50	20	30	49
15	24	34	54	23	33	53
20	26	36	58	25	35	57
25	29	39	62	28	38	61
30	—	41	66	—	40	65
40	—	—	74	—	—	73

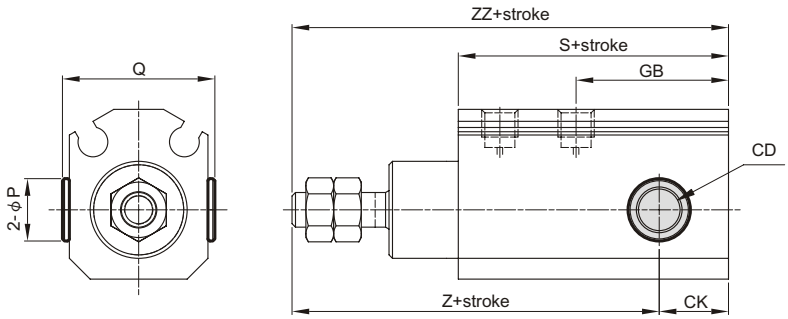
MCMJP Dimensions ϕ6~ϕ16

PEN CYLINDERS



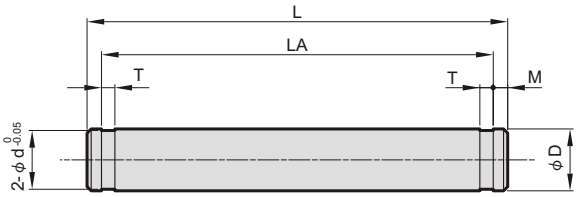
Code / Tube I.D.	A	A1	B	B1	B2	C	D	E	F	F1	GA	GB	H	J	MM	NN	P	W	Without magnet		Magnet	
																			S	Z	S	Z
6	7	9	14	14	5.5	2	3	16.5	8	6.5	5.5	6	17	6	M3×0.5	M10×1.0	M3×0.5	4	16	33	21	38
10	10	12	15	17	7	2.5	4	19	8	6.5	6	7	20	7	M4×0.7	M12×1.0	M3×0.5	4	19.5	39.5	24.5	44.5
16	12	14	20	19	8	3	6	24.5	10	8.5	6	7.5	24	10	M5×0.8	M14×1.0	M5×0.8	4	19.5	43.5	24.5	48.5

E



Code / Tube I.D.	CD	CK	GB	P	Q	Without magnet			Magnet		
						S	Z	ZZ	S	Z	ZZ
6	$3^{+0.04}_{+0}$	4	11	—	—	21	34	38	26	39	43
10	$5^{+0.06}_{+0}$	6.5	18	8	17	30.5	44	50.5	35.5	49	55.5
16	$6^{+0.06}_{+0}$	10	22	9	22	34	48	58	39	53	63

Pin



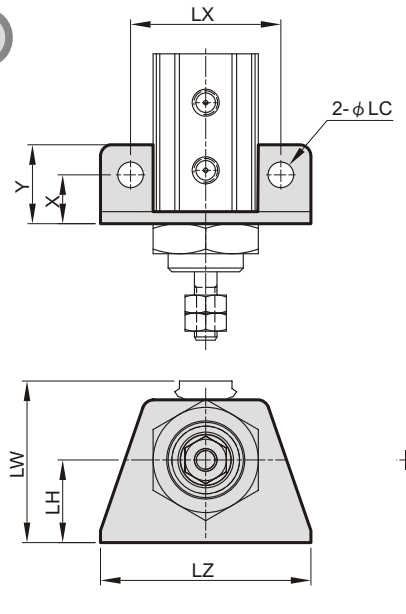
Code / Tube I.D.	D^{d9}	d	L	LA	M	T	Split pin
6	$3^{-0.02}_{-0.05}$	2.85	20.4	19	0.7	0.5	STW-3
10	$5^{-0.03}_{-0.06}$	4.8	23.9	21.9	1	0.7	STW-5
16	$6^{-0.03}_{-0.06}$	5.7	31.9	29.9	1	0.8	STW-6

Order example:

PIN — MCMJP — 10 — SDB — P

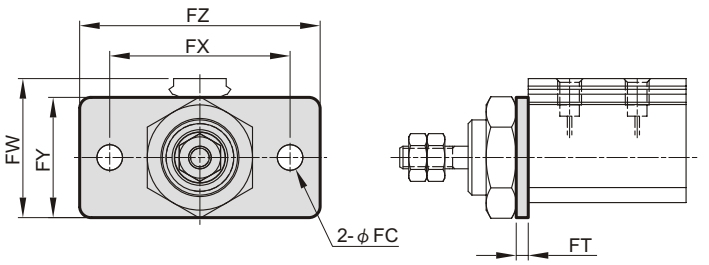
- PIN
- TUBE I.D.
- TYPE — **SDB** : for SDB accessory
- **P** : with split pin

LB



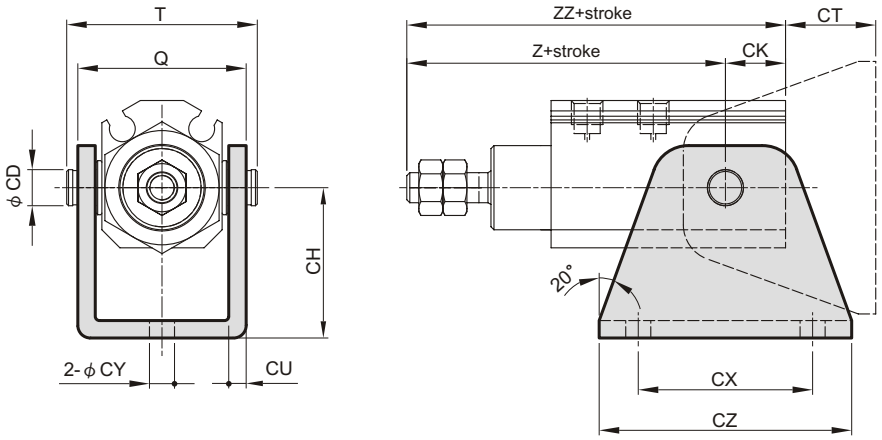
Code / Tube I.D.	LC	LH	LT	LW	LX	LZ	X	Y
6	3.4	11	1.6	21.5	20	28	6.5	10.5
10	4.5	13	1.6	25	24	33	7	12
16	5.5	18	2.3	32.5	30	43	10	16.5

FA



Code / Tube I.D.	FC	FT	FW	FX	FY	FZ
6	3.4	1.6	18.5	24	16	32
10	4.5	1.6	21	28	18	37
16	5.5	2.3	25.5	36	22	49

SDB



Code / Tube I.D.	CD	CH	CK	CT	CU	CX	CY	CZ	Q	T	Without magnet		Magnet	
											Z	ZZ	Z	ZZ
6	3	16	4	12	1.6	18	3.4	26	18.5	20.4	34	38	39	43
10	5	20	6.5	13.5	1.6	24	4.5	33	20.5	23.9	44	50.5	49	55.5
16	6	25	10	15	3	29	5.5	42	28.2	31.9	48	58	53	63