



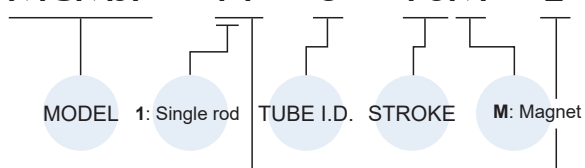
Table for standard stroke

Tube I.D.	Stroke (mm)	Max. stroke (mm)		
		Without	With magnet	
Standard type	ø6	5, 10, 15, 20, 25	30	25
	ø10	5, 10, 15, 20, 25, 30	35	30
	ø16	5, 10, 15, 20, 25, 30, 40	45	40
End-plain	ø6	5, 10, 15, 20	25	20
	ø10	5, 10, 15, 20	25	20

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

Order example

MCMJP - 11 - 6 - 10M - E



STYLE

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

TYPE

Code	Symbol	Description
Blank		Standard type
E		End-plain

Order example of mounting accessories

Code	Accessories			
	LB	FA	SDB (With pin×1 + snap ring×2)	NUT
Type	Standard type			End-plain (E)
Mounting Tube I.D.				Rod nut
ø6	LB-M5-6	FA-M5-6	SDB-M5-6	NUT-M3x0.5x2.4Hx5.5B
ø10	LB-M5-10	FA-M5-10	SDB-M5-10	NUT-M4x0.7x3.2Hx7B
ø16	LB-M5-16	FA-M5-16	SDB-M5-16	NUT-M5x0.8x4Hx8B

Pin

Applicable	SDB accessories
Code	PIN-SDB-P (With snap pin)
Fig	
Tube I.D.	
ø6	PIN-M5-6-1-P
ø10	PIN-M5-10-1-P
ø16	PIN-M5-16-1-P

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	0.7 MPa		
Min. operating pressure	0.12 MPa	0.06 MPa	
Proof pressure	1 MPa		
Lubrication	Not required		
Ambient temperature	-5~+60°C (No freezing)		
Available speed range	50~500 mm/sec		
Max. allowable kinetic energy	0.012J	0.025J	0.05J
Sensor switch (*)	RDVE(V), RDGV		

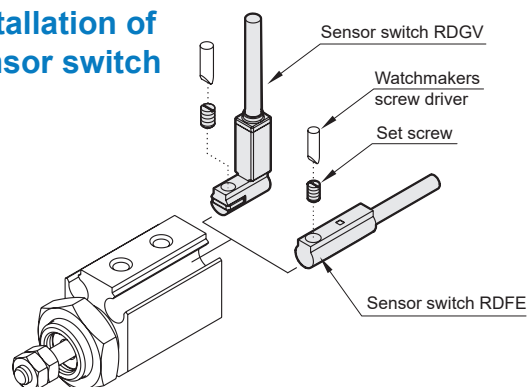
* RDVE(V), RDGV specification, please refer to page 8-19, 20.

Cylinder weight

Unit: g

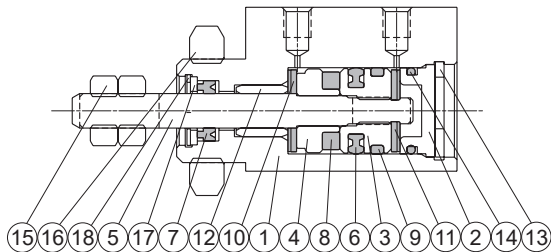
Stroke (mm)	11: Male thread			18: Threadless		
	ø6	ø10	ø16	ø6	ø10	ø16
5	19	29	46	18	28	45
10	21	31	50	20	30	49
15	24	34	54	23	33	53
20	26	36	58	25	35	57
25	29	39	62	28	38	61
30	—	41	66	—	40	65
40	—	—	74	—	—	73

Installation of sensor switch

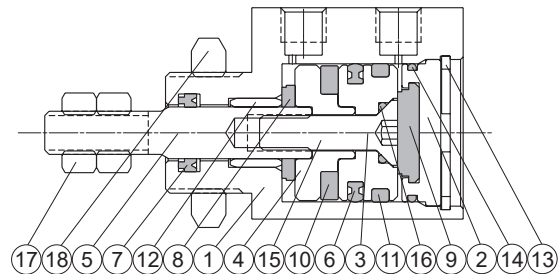


PEN CYLINDER

$\phi 6, \phi 10$



$\phi 16$



Material

No.	Tube I.D. Part name	6	10	Note	Q'y	Repair kits (inclusion)
1	Body	Aluminum alloy			1	
2	End cover	Aluminum alloy			1	
3	Piston	Aluminum alloy			1	
4	Piston	Aluminum alloy		for with magnet	1	
5	Piston rod	Stainless steel			1	
6	Piston packing	NBR			1	●
7	Rod packing	NBR			1	●
8	Magnet ring	Magnet material		for with magnet	1	
9	Wear ring	Resin			1	
10	Cushion	NBR			1	●
11	Cushion	NBR			1	●
12	Rod bush	Copper			1	
13	Stop ring	Carbon steel			1	
14	Cover ring	NBR			1	●
15	Rod front nut	Carbon steel			2	
16	Tie nut	Carbon steel			1	
17	Fixed ring	Aluminum alloy			1	
18	Stop ring	Carbon steel			1	

Order example of repair kits

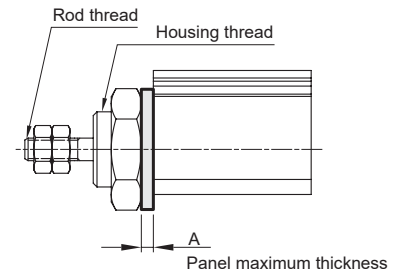
Tube I.D.	Repair kits
$\phi 6$	PS-MCMJP-6
$\phi 10$	PS-MCMJP-10
$\phi 16$	PS-MCMJP-16

No.	Tube I.D. Part name	16	Note	Q'y	Repair kits (inclusion)
1	Body	Aluminum alloy		1	
2	End cover	Aluminum alloy		1	
3	Piston	Aluminum alloy		1	
4	Piston	Aluminum alloy	for with magnet	1	
5	Piston rod	Stainless steel		1	
6	Piston packing	NBR		1	●
7	Rod packing	NBR		1	●
8	Cushion	NBR		1	●
9	Cushion	NBR		1	●
10	Magnet ring	Magnet material	for with magnet	1	
11	Wear ring	Resin		1	
12	Rod bush	Copper		1	
13	Stop ring	Carbon steel		1	
14	Cover ring	NBR		1	●
15	Piston bolt	SCM		1	
16	Piston gasket	NBR		1	●
17	Rod front nut	Carbon steel		2	
18	Tie nut	Carbon steel		1	

Tightening torque

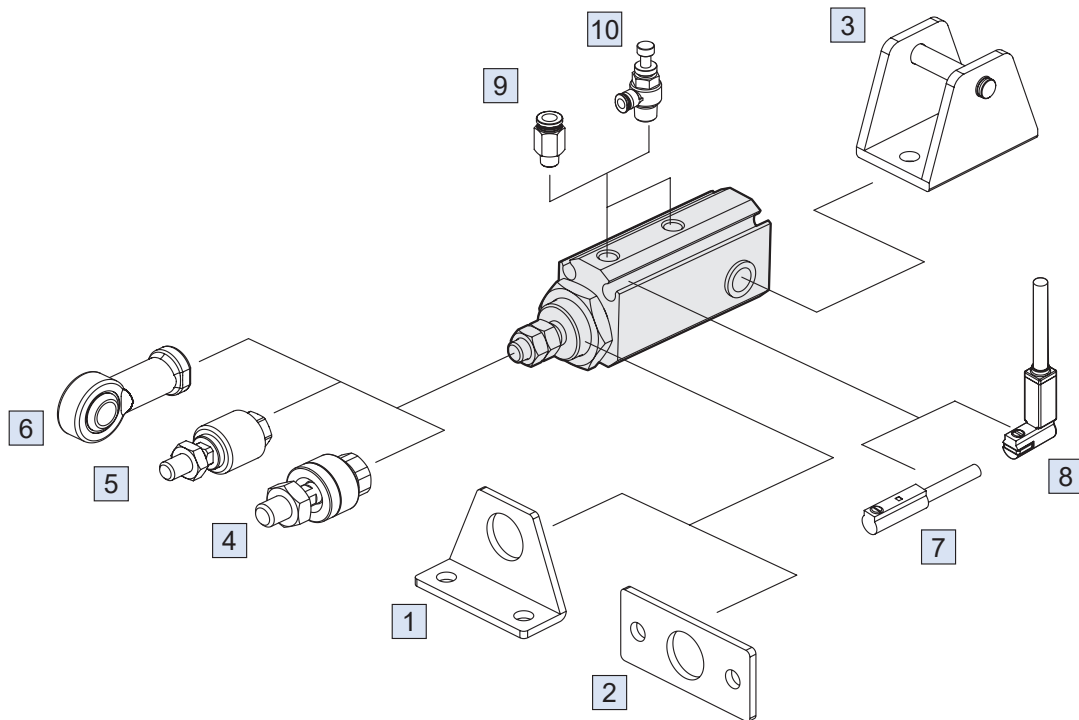
Tube I.D.	Rod thread	Maximum Tightening torque (kgf·cm)
ø6	M3×0.5	3.1
ø10	M4×0.7	8.2
ø16	M5×0.8	16.3

Tube I.D.	Housing thread	Maximum Tightening torque (kgf·cm)	A (mm)
ø6	M10×1	125	4
ø10	M12×1	214	4
ø16	M14×1	347	5



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

Accessories

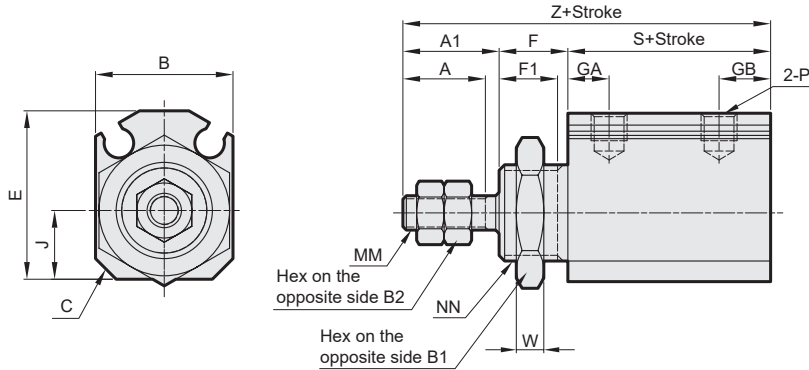


No.	Accessories	Material	Page
1	Mounting accessories LB	Carbon steel	3-80
2	Mounting accessories FA	Carbon steel	3-80
3	Mounting accessories SDB+PIN	Carbon steel / *1	3-80, 79
4	Floating joint MFC	Carbon steel	8-2
5	Floating joint MFCS	Carbon steel	8-5
6	Female rod ends PHS	Carbon steel	8-6
7	Sensor switch RDFE	-	8-19
8	Sensor switch RDGV	-	8-20
9	Fitting PC (PISCO)	-	8-3 (Vol.1)
10	Speed controller JSC (PISCO)	-	8-15 (Vol.1)

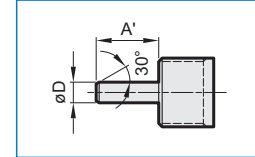
*1. PIN material is stainless steel.

PEN CYLINDER

mindman

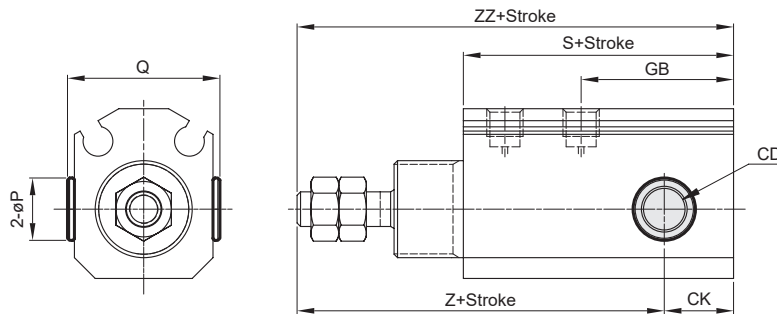


MCMJP-18



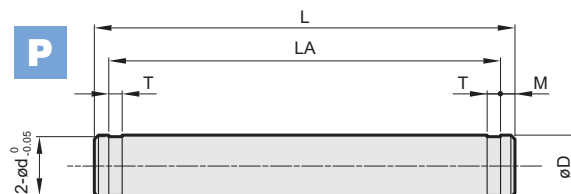
Code Tube I.D.	A	A1	B	B1	B2	C	D	E	F	F1	GA	GB	J	MM	NN	P	W	Without magnet		Magnet	
	S	Z	S	Z																	
6	7	9	14	14	5.5	2	3	16.5	8	6.5	5.5	6	6	M3×0.5	M10×1.0	M3×0.5	4	16	33	21	38
10	10	12	15	17	7	2.5	4	19	8	6.5	6	7	7	M4×0.7	M12×1.0	M3×0.5	4	19.5	39.5	24.5	44.5
16	12	14	20	19	8	3	6	24.5	10	8.5	6	7.5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

E



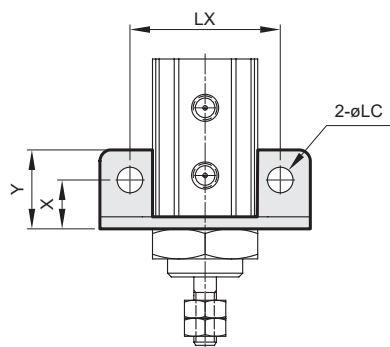
Code Tube I.D.	CD	CK	GB	P	Q	Without magnet			Magnet		
						S	Z	ZZ	S	Z	ZZ
6	3 ^{+0.04} ₊₀	4	11	—	—	21	34	38	26	39	43
10	5 ^{+0.06} ₊₀	6.5	18	8	17	30.5	44	50.5	35.5	49	55.5
16	6 ^{+0.06} ₊₀	10	22	9	22	34	48	58	39	53	63

PIN

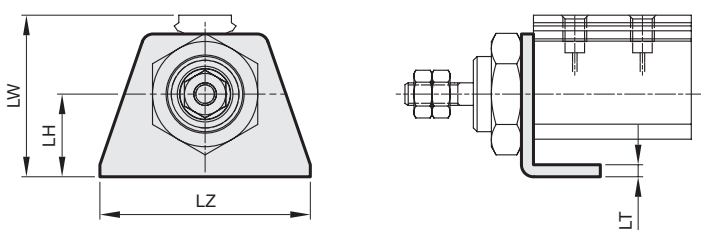


Code Tube I.D.	D ^{d9}	d	L	LA	M	T	Split pin
6	3 ^{-0.02} _{-0.05}	2.85	20.4	19	0.7	0.5	STW-3
10	5 ^{-0.03} _{-0.06}	4.8	23.9	21.9	1	0.7	STW-5
16	6 ^{-0.03} _{-0.06}	5.7	31.9	29.9	1	0.8	STW-6

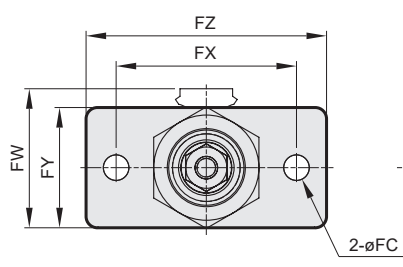
LB



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

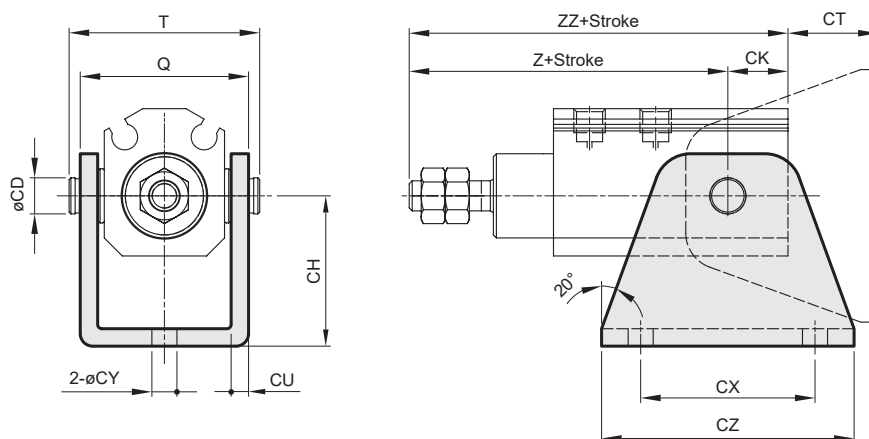


FA



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