

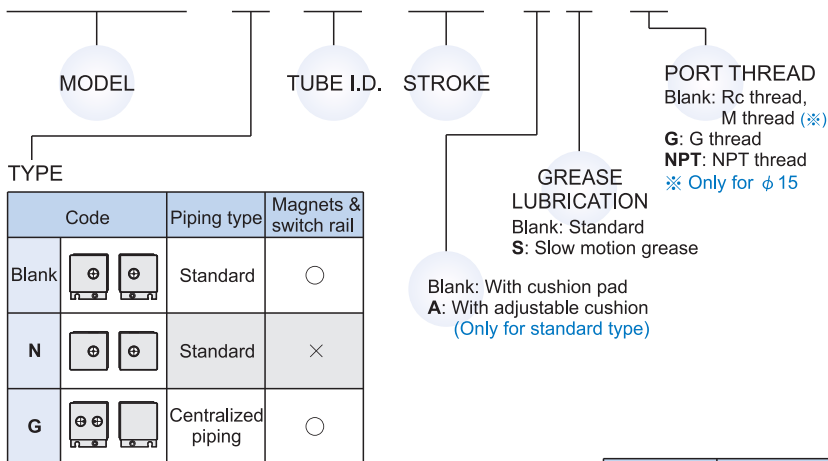
Table for standard stroke

Type	Tube I.D.	Stroke (mm)	Max. stroke
Standard G type	φ 15	100, 150, 200, 250, 300, 400, 500	700
	φ 20	100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800	1000
	φ 25		
	φ 32		
N type	φ 15	100, 150, 200, 250, 300, 400, 500	1000
	φ 20	100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800	1500
	φ 25		
	φ 32	2000	

※ Minimum stroke unit 1mm.



Order example

MCRPMD – G – 20 – 100 – A S – G



Cylinder weight

Unit: g

Model	Basic weight MCRPMD	Stroke 100 mm MCRPMD
Tube I.D.		
φ 15	302	80
φ 20	520	102
φ 25	712	115
φ 32	1235	150

Features

- 50 % space saving.
- Magnetic transit design. Magnetic force transmits the movement with piston side magnet and slider magnet.
- Stainless tube, light weighted and durable.

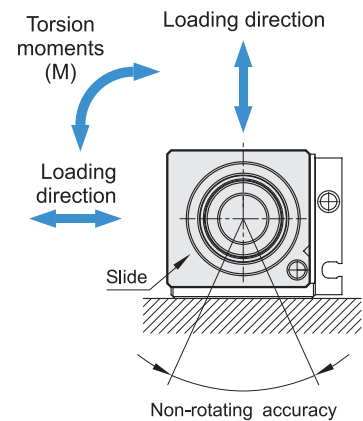
Specification

Model	MCRPMD			
Acting type	Double acting			
Tube I.D. (mm)	15	20	25	32
Port size	M5×0.8	Rc1/8		
Medium	Air			
Max. operating pressure	0.7 MPa			
Min. operating pressure	0.18 MPa			
Proof pressure	1 MPa			
Ambient temperature	+5°C ~ +60°C			
Lubricator	Without lubrication			
Available speed range	Standard grease: 100~500 mm/sec			
	Slow motion grease: 50~100 mm/sec(※)			
Holding force	137 N	231 N	363 N	588 N
Sensor switch (※)	RCE, RCE1			

※ Between the speed range limit the actuator stroke must not exceed to 2m/minute.

※ RCE, RCE1 specifications, please refer to page 8-10.

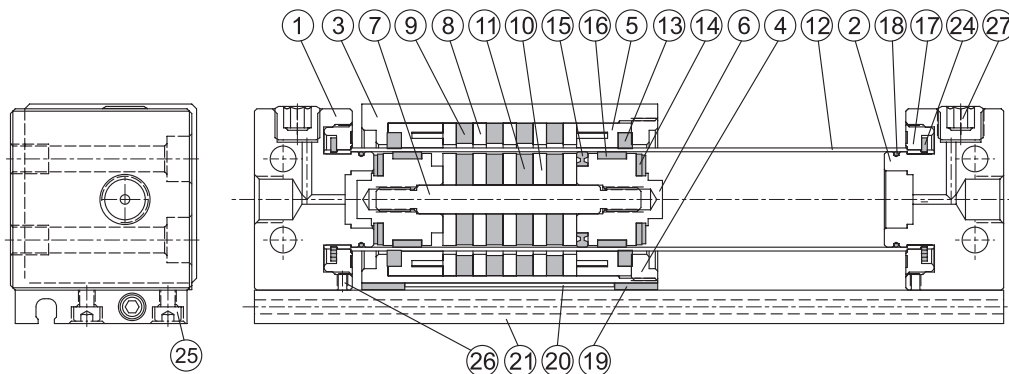
Maximum allowable directly load



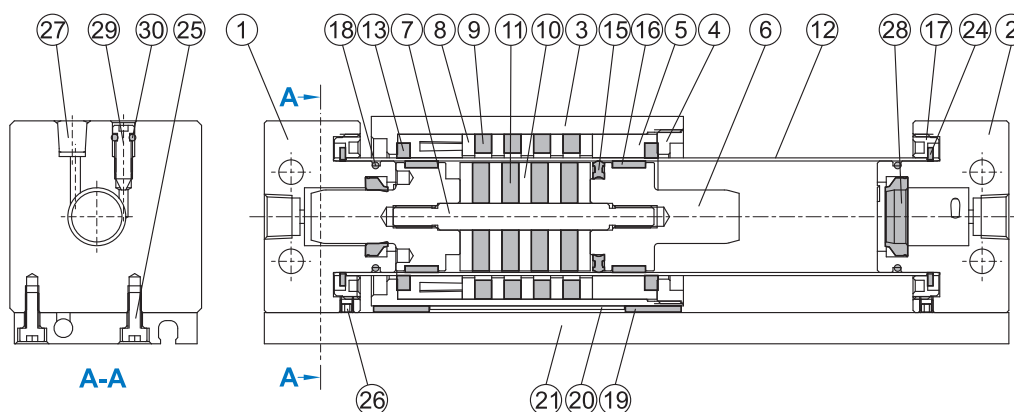
Tube I.D.	Max. allowable load (kg)	Non-rotating accuracy	Max. torsion moments	Non-rotating accuracy Allowable stroke
φ 15	0.9	5°	0.18 N.m	200 mm
φ 20	1.1	4°	0.23 N.m	300 mm
φ 25	1.1	4°	0.40 N.m	300 mm
φ 32	1.5	4°	0.12 N.m	400 mm

※ Non-rotating angle accuracy will be reduced by distortion due to longer stroke and switch rail.

Standard type



Adjustable cushion

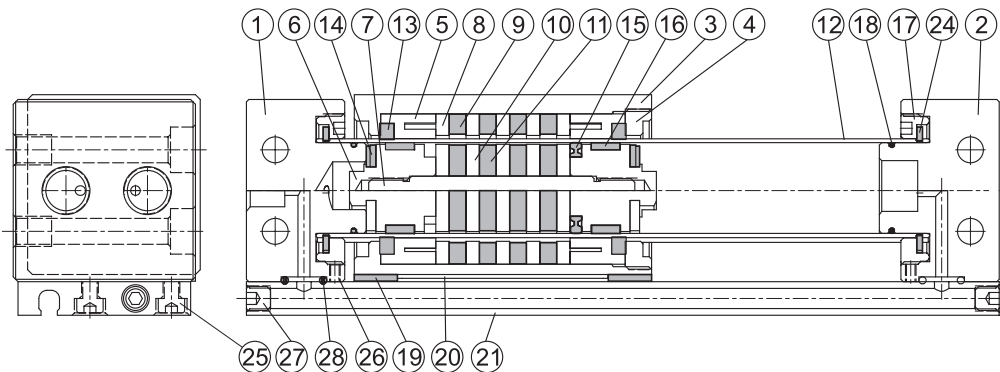


Material

No.	Part name	Material
1	Cover A	Aluminum alloy
2	Cover B	Aluminum alloy
3	Slider body	Aluminum alloy
4	Body cover	Aluminum alloy
5	Body wear ring	POM
6	Piston	Aluminum alloy
7	Shaft	Stainless steel
8	Slider side yoke	Carbon steel
9	Slider side magnet	Magnet material
10	Piston side yoke	Carbon steel
11	Piston side magnet	Magnet material
12	Tube	Stainless steel
13	Lub-retainer	Special resin
14	Cushion	NBR
15	Piston seal	NBR

No.	Part name	Material
16	Wear ring	POM
17	Tube fixed nut	Aluminum alloy
18	O-ring	NBR
19	Wear ring	POM
20	Magnetic shielding plate	Carbon steel
21	Switch rail	Aluminum alloy
22	Magnet	Magnet material
23	Spring	Stainless steel
24	Snap ring	Spring steel
25	Bolt	SCM
26	Screw	SCM
27	Seal screw	Carbon steel
28	Cushion packing	NBR
29	Needle valve	Stainless steel
30	Needle valve packing	NBR

Centralized piping type

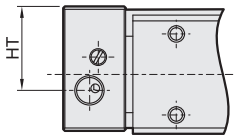


Material

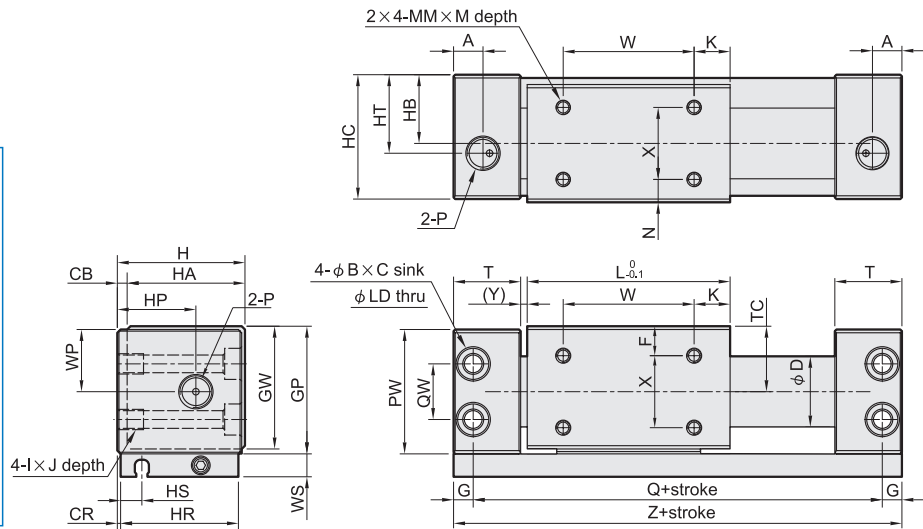
No.	Part name	Material
1	Cover A	Aluminum alloy
2	Cover B	Aluminum alloy
3	Slider body	Aluminum alloy
4	Body cover	Aluminum alloy
5	Body wear ring	POM
6	Piston	Aluminum alloy
7	Shaft	Stainless steel
8	Slider side yoke	Carbon steel
9	Slider side magnet	Magnet material
10	Piston side yoke	Carbon steel
11	Piston side magnet	Magnet material
12	Tube	Stainless steel
13	Lub-retainer	Special resin
14	Cushion	NBR
15	Piston seal	NBR
16	Wear ring	POM
17	Tube fixed nut	Aluminum alloy
18	O-ring	NBR
19	Wear ring	POM
20	Magnetic shielding plate	Carbon steel
21	Switch rail	Aluminum alloy
22	Magnet	Magnet material
23	Spring	Stainless steel
24	Snap ring	Spring steel
25	Bolt	SCM
26	Screw	SCM
27	Screw	SCM
28	O-ring	NBR

Standard type

Adjustable cushion



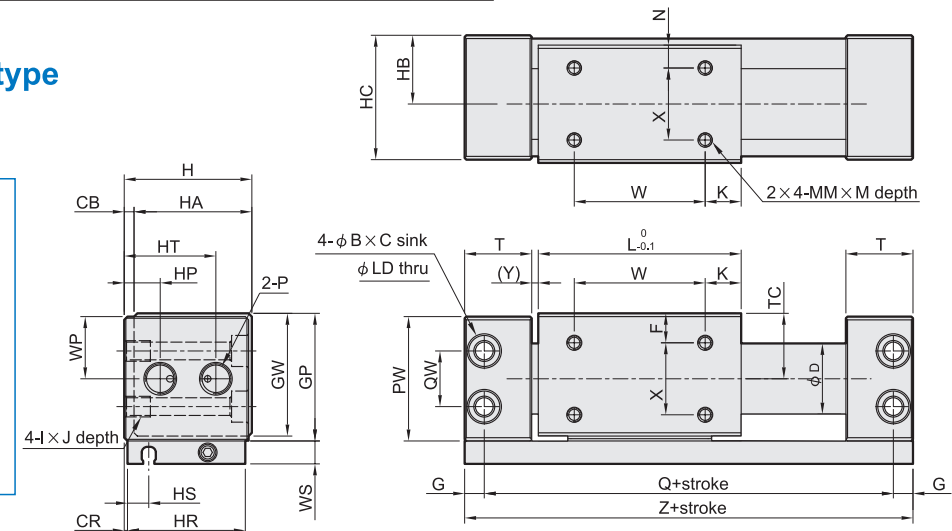
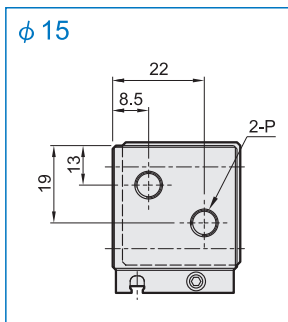
Code Tube I.D.	HT
15	10
20	24
25	29
32	35



Code Tube I.D.	A	B	C	CB	CR	D	F	G	GP	GW	H	HA	HB	HC	HP	HR	HS	HT	I	J	K	L	LD	M
15	9.5	8	4.2	2	0.5	16.6	8	5	33	31.5	32	30	17	31	17	30	4.9	17	M5×0.8	7	14	53	4.3	5
20	9	9.5	5.2	3	1	21.6	9	6	39	37.5	39	36	21	38	24	36	6.5	24	M6×1.0	8	11	62	5.4	5
25	9	9.5	5.2	3	1	26.4	8.5	6	44	42.5	44	41	23.5	43	23.5	41	6.5	23.5	M6×1.0	8	15	70	5.4	6
32	10.5	11	6.5	3	1.5	33.6	10.5	7	55	53.5	55	52	29	54	29	51	6	29	M8×1.25	10	13	76	6.8	7

Code Tube I.D.	MM	N	P	PW	Q	QW	T	TC	W	WP	WS	X	Y	Z
15	M4×0.7	6	M5×0.8	32	84	18	19	17	25	16	7	18	1.5	94
20	M4×0.7	7	Rc1/8	38	95	17	20.5	20	40	19	7	22	2	107
25	M5×0.8	6.5	Rc1/8	43	105	20	21.5	22.5	40	21.5	7	28	2	117
32	M6×1.0	8.5	Rc1/8	54	116	26	24	28	50	27	7	35	3	130

Centralized piping type



Code Tube I.D.	B	C	CB	CR	D	F	G	GP	GW	H	HA	HB	HC	HP	HR	HS	HT	I	J	K	L	LD	M
15	8	4.2	2	0.5	16.6	8	5	33	31.5	32	30	17	31	—	30	4.9	—	M5×0.8	7	14	53	4.3	5
20	9.5	5.2	3	1	21.6	9	6	39	37.5	39	36	21	38	24	36	6.5	24	M6×1.0	8	11	62	5.4	5
25	9.5	5.2	3	1	26.4	8.5	6	44	42.5	44	41	23.5	43	23.5	41	6.5	23.5	M6×1.0	8	15	70	5.4	6
32	11	6.5	3	1.5	33.6	10.5	7	55	53.5	55	52	29	54	29	51	6	29	M8×1.25	10	13	76	6.8	7

Code Tube I.D.	MM	N	P	PW	Q	QW	T	TC	W	WP	WS	X	Y	Z
15	M4×0.7	6	M5×0.8	32	84	18	19	17	25	—	7	18	1.5	94
20	M4×0.7	7	Rc1/8	38	95	17	20.5	20	40	19	7	22	2	107
25	M5×0.8	6.5	Rc1/8	43	105	20	21.5	22.5	40	21.5	7	28	2	117
32	M6×1.0	8.5	Rc1/8	54	116	26	24	28	50	27	7	35	3	130