



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.
- All series are with switch types.

Specification

Model	MCRPMD	
Acting type	Double acting	
Tube I.D. (mm)	20	25
Port size	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	100~500 mm/sec	
Holding force	231 N	363 N
Sensor switch	RCE, RCE1	

Table for standard stroke

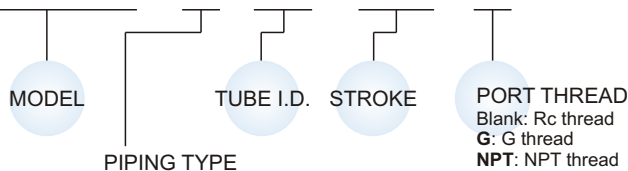
Tube I.D.	Stroke (mm)	Max. stroke
φ 20	100, 150, 200, 250, 300, 350, 400	1000
φ 25	450, 500, 600, 700, 800	

※: Minimum stroke unit 1mm.

※ RCE, RCE1 specifications please refer to the V-09 page.

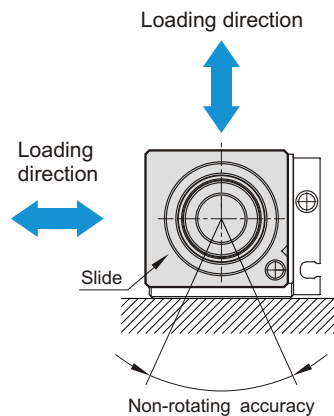
Order example

MCRPMD - G - 20 - 100 - G



PIPING TYPE	Diagram
Blank: Standard type	
G: Centralized piping	

Maximum allowable directly load



Cylinder weight

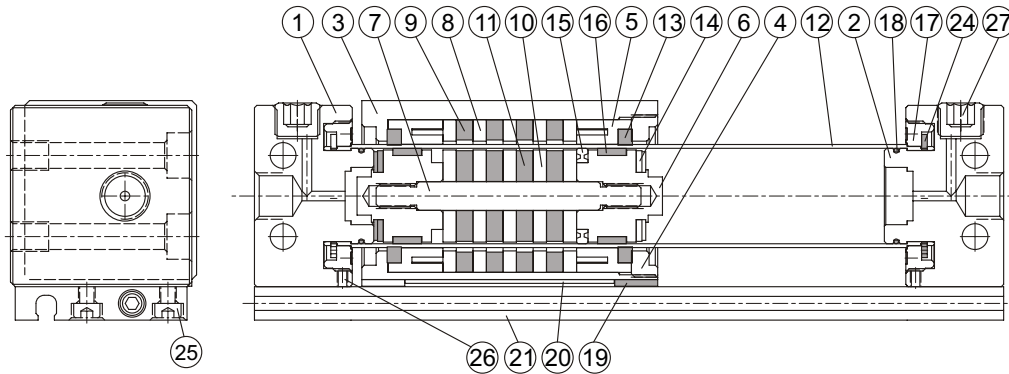
unit:g

Model	Basic weight MCRPMD	Stroke 100 mm MCRPMD
Tube I.D.		
φ 20	520	102
φ 25	712	115

Tube I.D.	Max. allowable load (kg)	Non-rotating accuracy	Non-rotating accuracy Allowable stroke
φ 20	1.1	4°	300 mm
φ 25	1.1	4°	300 mm

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

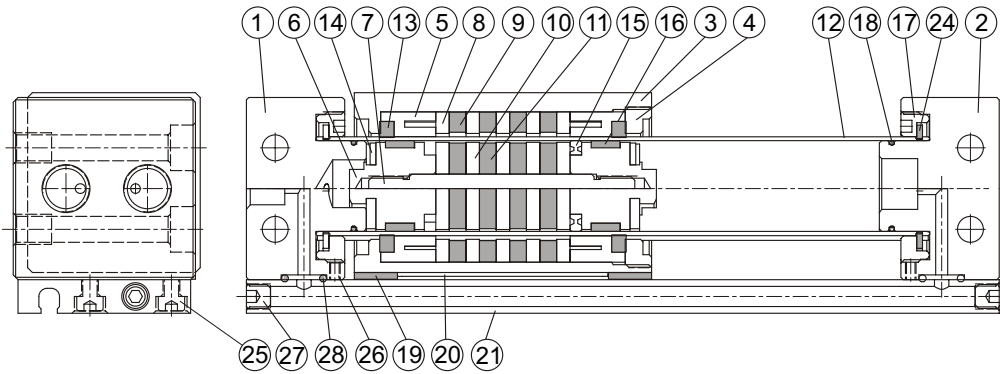
Standard type



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	Lubretainer	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	Seal screw	Carbon steel

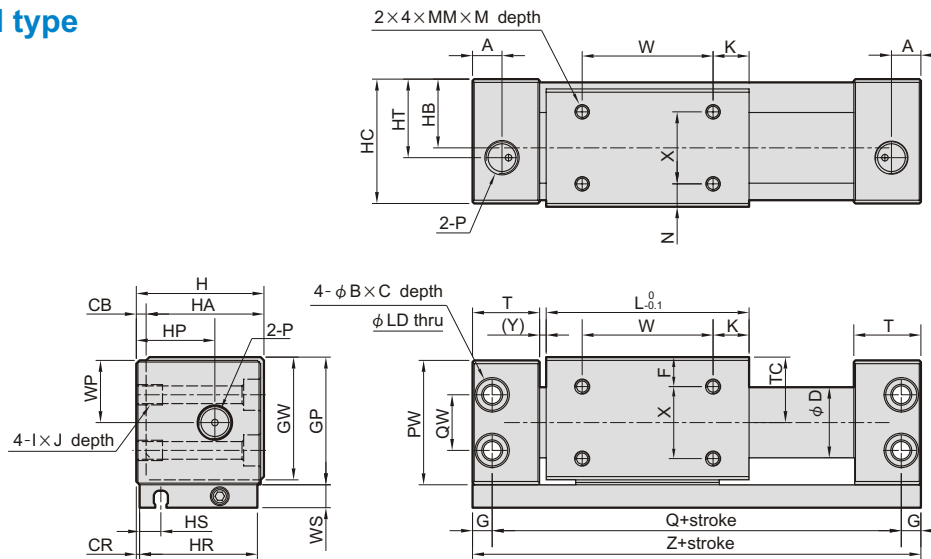
Centralized piping type



Material

No.	Part name	Material
1	Cover A	Aluminum alloy
2	Cover B	Aluminum alloy
3	Silder body	Aluminum alloy
4	Body cover	Aluminum alloy
5	Body wear ring	POM
6	Piston	Aluminum alloy
7	Shaft	Stainless steel
8	Silder side yoke	Carbon steel
9	Silder side magnet	Magnet material
10	Piston side yoke	Carbon steel
11	Piston side magnet	Magnet material
12	Tube	Stainless steel
13	Lubretainer	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

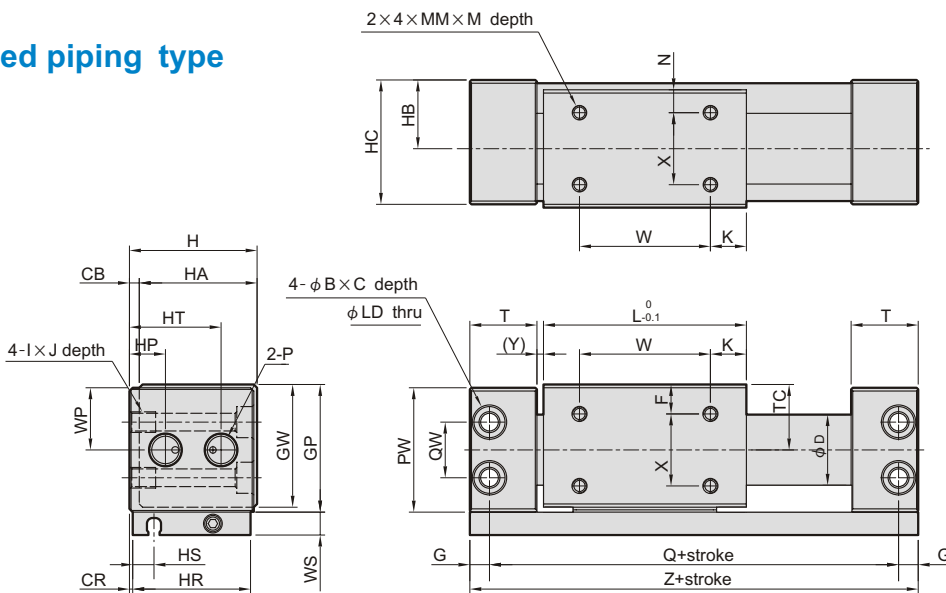
Standard type



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
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

Code Tube I.D.	MM	N	P	PW	Q	QW	T	TC	W	WP	WS	X	Y	Z
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

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	MM
20	9.5	5.2	3	1	21.6	9	6	39	37.5	39	36	21	38	11	36	6.5	28	M6×1.0	8	11	62	5.4	5	M4×0.7
25	9.5	5.2	3	1	26.4	8.5	6	44	42.5	44	41	23.5	43	14.5	41	6.5	33.5	M6×1.0	8	15	70	5.4	6	M5×0.8

Code Tube I.D.	N	P	PW	Q	QW	T	TC	W	WP	WS	X	Y	Z
20	7	Rc1/8	38	95	17	20.5	20	40	19	7	22	2	107
25	6.5	Rc1/8	43	105	20	21.5	22.5	40	21.5	7	28	2	117