



Features

- 50 % space saving.
- Magnetic transit design. Magnetic force transits the movement with piston side magnet and slider magnet.
- Stainless tube, light weighted and durable.
- All series are without switch types.

Specification

Model	MCRPM				
Acting type	Double acting				
Tube I.D. (mm)	15	20	25	32	40
Port size	M5×0.8	Rc1/8		Rc1/4	
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 (N)	137	231	363	588	922

Table for standard stroke

Tube I.D.	Stroke (mm)	Max. stroke	
		Pad	Air
φ 15	100 ~ 500	900	900
φ 20	100, 150, 200, 250,	1500	1000
φ 25	300, 350, 400, 450,	2000	1000
φ 32, 40	500, 600, 700, 800	2000	900

※: Minimum stroke unit 1mm.

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

Order example

MCRPM-20-100-A S-□

MODEL

TUBE I.D.

STROKE

GREASE LUBRICATION
Blank: Standard
S: Slow motion grease

Blank: With cushion pad
A: With adjustable cushion

PORT THREAD

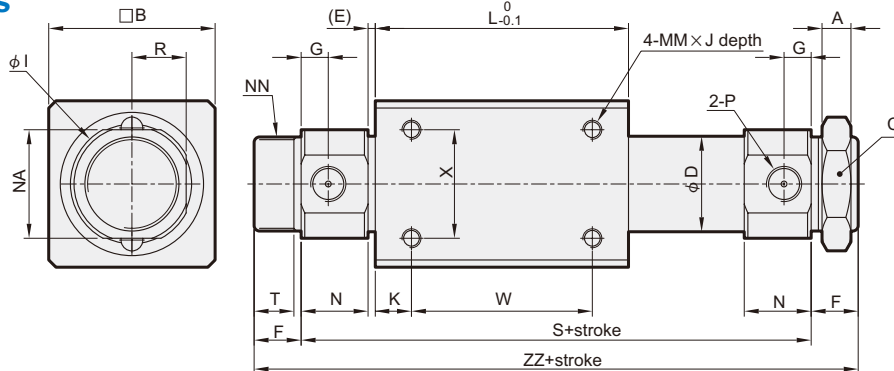
Blank: Rc thread, M thread (※)
G: G thread
NPT: NPT thread
※ Only for φ 15

Cylinder weight

Unit: g

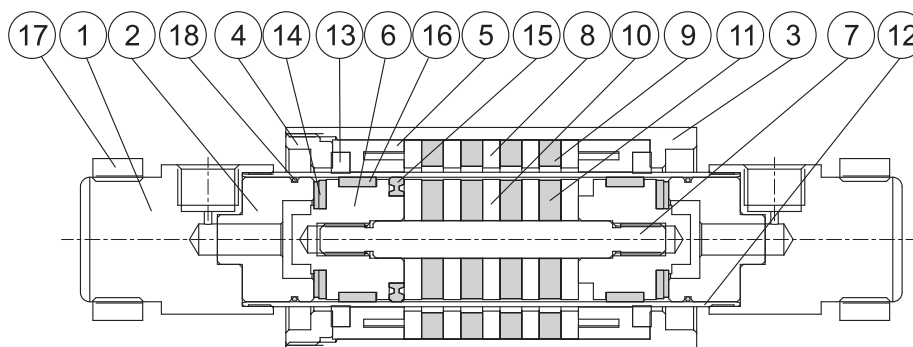
Model	Basic weight MCRPM	Stroke 100 mm MCRPM
Tube I.D.		
φ 15	232	32
φ 20	413	43
φ 25	657	46
φ 32	1,177	66
φ 40	1,996	83

Dimensions

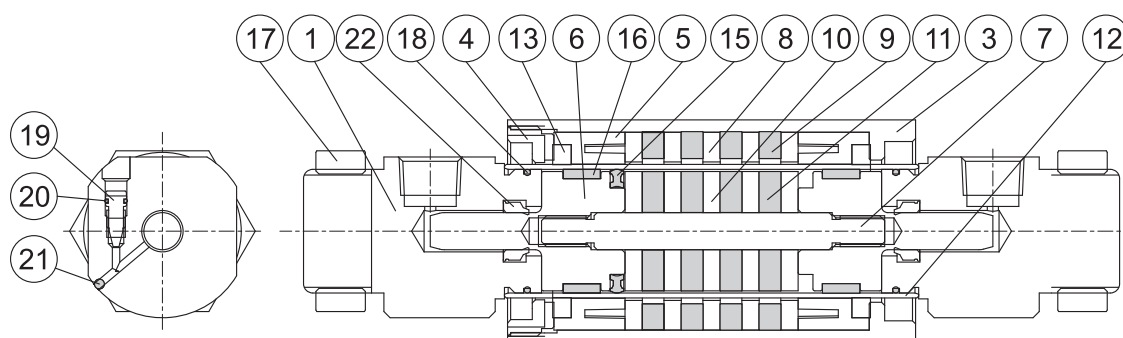


Code Tube I.D.	A	B	C	D	E	F	G	I	J	K	L	MM	N	NA	NN	R	S	T	W	X	ZZ	P
15	4	35	14	16.6	2	10	5.5	22	5	11	57	M4×0.7	11	20	M10×1.0	10	83	8.5	35	19	103	M5×0.8
20	8	36	26	21.6	2	13	7.5	28	6	8	66	M4×0.7	18	24	M20×1.5	12	106	10.5	50	25	132	Rc1/8
25	8	46	32	26.4	2	13	7.5	34	8	10	70	M5×0.8	18.5	30	M26×1.5	15	111	10.5	50	30	137	Rc1/8
32	8	60	32	33.6	2	16	8	40	8	15	80	M6×1.0	20	36	M26×1.5	18	124	14	50	40	156	Rc1/8
40	10	70	41	41.6	3	16	11	50	10	16	92	M6×1.0	26	46	M32×2.0	23	150	13	60	40	182	Rc1/4

Cushion pad type



Cushion air type



Material

No.	Cushion		Part name	Material	Note
	Air	Pad			
1	●	●	Cover	Aluminum alloy	Anodized
2		●	End collar	Aluminum alloy	※1
3	●	●	Slider body	Aluminum alloy	Anodized
4	●	●	Body cover	Aluminum alloy	Anodized
5	●	●	Body wear ring	POM	
6	●	●	Piston	Aluminum alloy	
7	●	●	Shaft	Stainless steel	
8	●	●	Slider side yoke	Carbon steel	Ni plated
9	●	●	Slider side magnet	Magnet material	Ni plated
10	●	●	Piston side yoke	Carbon steel	Ni plated
11	●	●	Piston side magnet	Magnet material	Ni plated

※1. $\phi 15$ without end collar

No.	Cushion		Part name	Material	Note
	Air	Pad			
12	●	●	Tube	Stainless steel	
13	●	●	Lub-retainer	Special resin	
14		●	Cushion	NBR	
15	●	●	Piston seal	NBR	
16	●	●	Wear ring	POM	
17	●	●	Cover nut	Carbon steel	Ni plated
18	●	●	O ring	NBR	
19	●		Needle valve	※2	
20	●		O ring	NBR	
21	●		Steel ball	Stainless steel	
22	●		Cushion	NBR	

※2. Material: $\phi 15, \phi 20, \phi 25$ Stainless steel;
 $\phi 32, \phi 40$ Carbon steel