

MCRPMS series

MAGNETICALLY COUPLED RODLESS CYLINDER

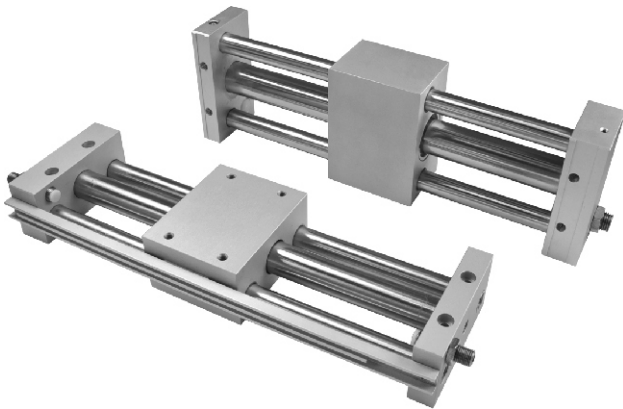


Table for standard stroke:

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.

Order example:

MCRPMS-20-100M-B-BSP

MODEL

TUBE I.D.

STROKE

ADJUSTER BOLT
Blank: Adjuster bolt
B: Shock absorbers

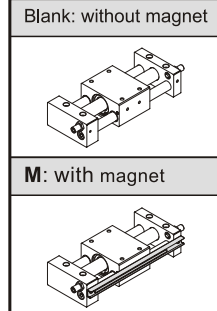
PORT THREAD
Blank: PT thread
BSP: BSP thread
NPT: NPT thread

MAGNET

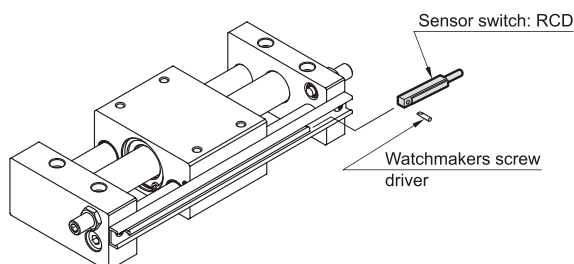
Cylinder weight:

(unit : g)

Model	Basic weight MCRPMS	Stroke 100 mm MCRPMS
Tube I.D.		
φ 20	1,433	342
φ 25	1,832	346



Installation of sensor switch:



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.
- The overall design of the cylinder and guide rods, can direct bear loads.
- Centralized piping ease of mounting.

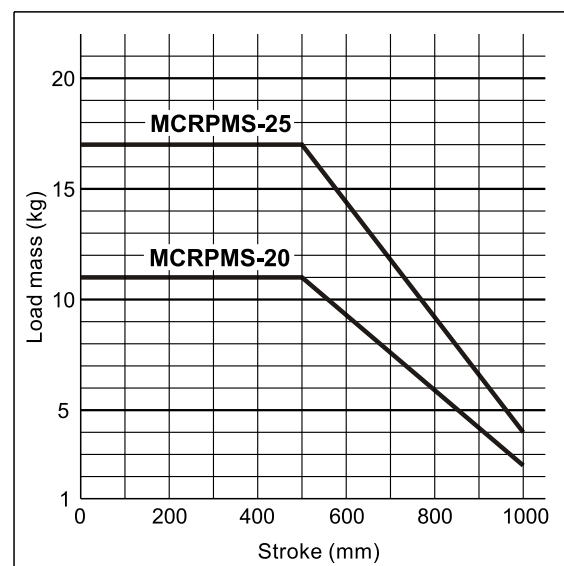
Specification:

Model	MCRPMS	
Acting type	Double acting	
Tube I.D. (mm)	20	25
Port size	PT1/8	
Medium	Air	
Max. operating pressure	7 kgf/cm ²	
Min. operating pressure	1.9 kgf/cm ²	1.8 kgf/cm ²
Proof pressure	10 kgf/cm ²	
Ambient temperature	+5°C ~ +60°C	
Lubricator	Without lubrication	
Available speed range	100~500 mm/sec	
Holding force	231 N	363 N
Shock absorbers	MAC-1007-SN	MAC-1412-SN
Sensor switch	RCD	

※ RCD specifications please refer to the **R-08** page.

※ Shock absorber specifications please refer to the **R-28** page.

Maximum load mass:



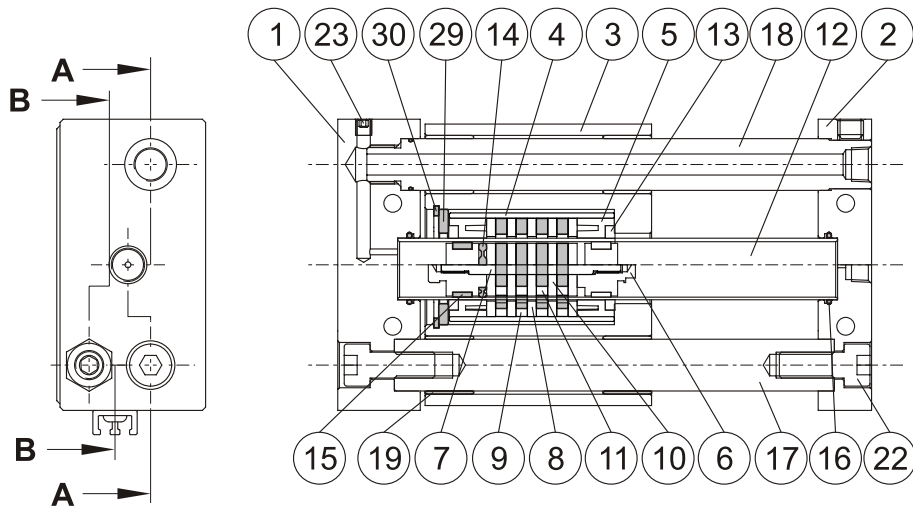
※ Maximum load mass when horizontal mounting

MCRPMS Inside structure & Parts list $\phi 20, \phi 25$

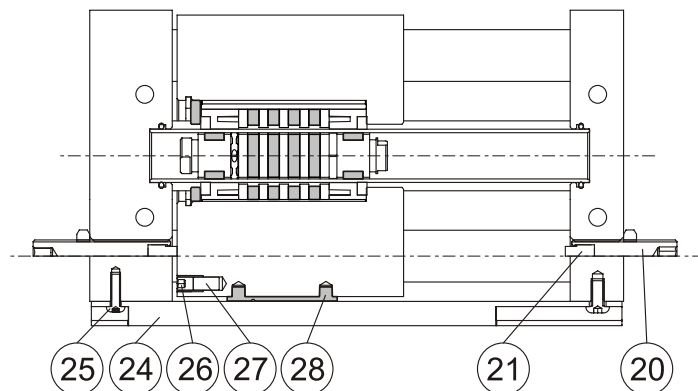
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Section view of **A-A**



Section view of **B-B**



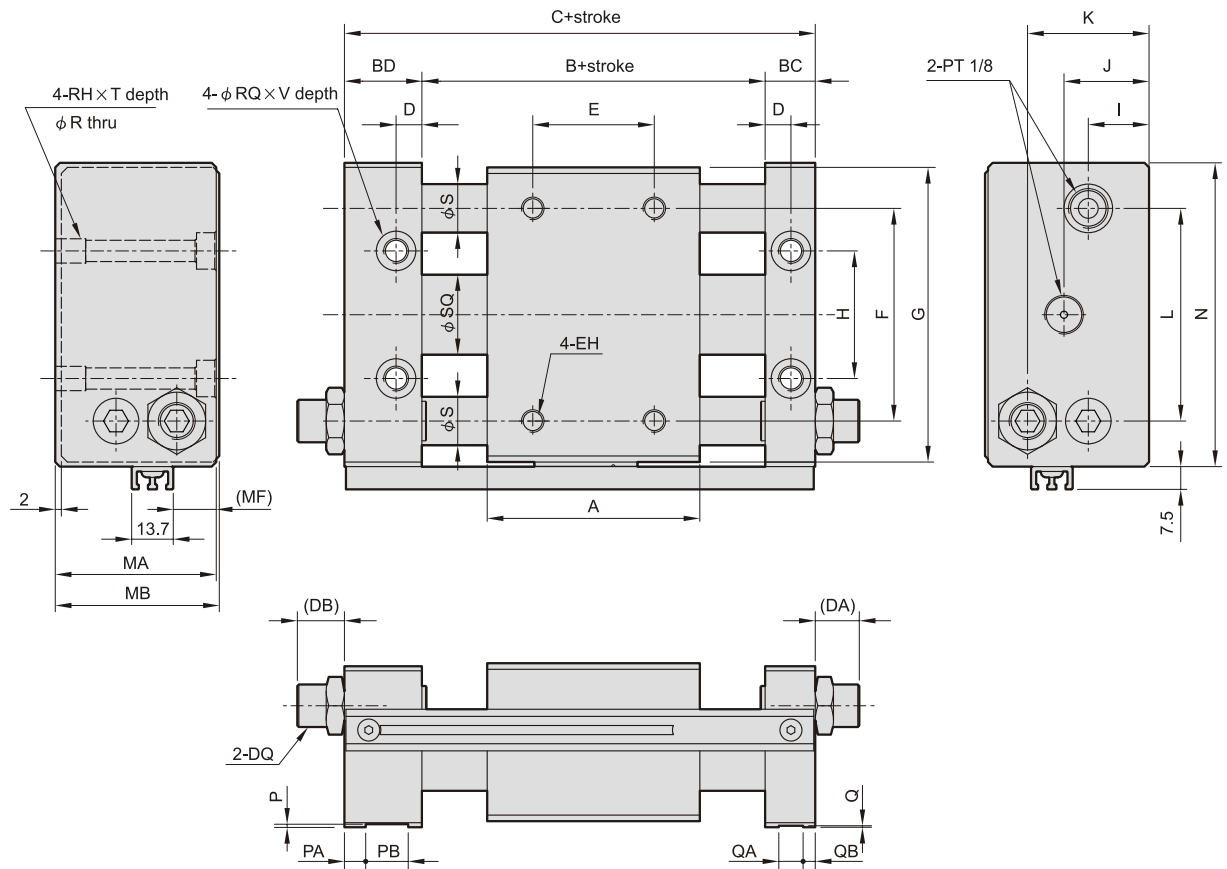
Material

No.	Part name	Material	Note
1	Plate A	Aluminum alloy	Anodized
2	Plate B	Aluminum alloy	Anodized
3	Silder body	Aluminum alloy	Anodized
4	External slider tube	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	Piston seal	NBR	
15	Wear ring	POM	

No.	Part name	Material	Note
16	O ring	NBR	
17	Guide shaft A	Carbon steel	
18	Guide shaft B	Carbon steel	
19	Bush	Copper	
20	Adjusting bolt	Carbon steel	
21	Cushion	PU	
22	Bolt	Carbon steel	
23	Hex socket screws	Carbon steel	
24	Switch rail	Aluminum alloy	for with magnet
25	Socket bolt	Carbon steel	for with magnet
26	Hex socket screws	Stainless steel	for with magnet
27	Magnet	Magnet material	for with magnet
28	Wear ring	POM	for with magnet
29	Washer	Aluminum alloy	Anodized
30	Snap ring	Spring steel	

MCRPMS Dimensions $\phi 20$, $\phi 25$

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Code Tube I.D.	A	B	BC	BD	C	D	DA	DB	DQ	E	EH	F	G	H	I	J	K	L	MA	MB
20	70	73	16.5	25.5	115	8.5	16.5	17.5	M10 x 1.0	40	M6 x 1 x 10 depth	70	87	38	17	24	36	62	45	46
25	70	73	16.5	25.5	115	8.5	14.5	15.5	M14 x 1.5	40	M6 x 1 x 10 depth	70	97	42	20	28	40	70	53	54

Code Tube I.D.	MF	N	P	PA	PB	Q	QA	QB	R	RH	RQ	S	SQ	T	V	ZA	ZB
20	10	90	—	—	—	—	—	—	5.5	M6 x 1.0	9.5	16	21.6	9.5	5.5	29	20
25	14	100	1	7	14	0.5	8	4	7	M8 x 1.25	12	16	26.4	10	6.5	49	40

With shock absorber:

