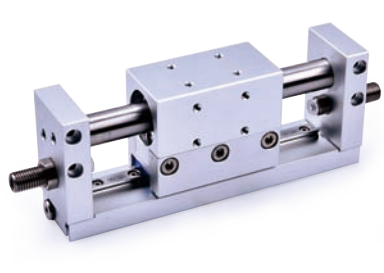
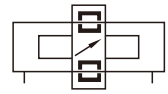
Rodless magnetic cylinder(With Linear guide)——RMH Series

Bore size: Φ10, Φ16, Φ20, Φ25





Ordering code

RMH 20×200 S T

1 2 3 4 5

① Model
RMH: Rodless magnetic cylinder

②Bore Size
10 16 20 25

④Magnet
S: With magnet

⑤ Thread type [Note2]
T: NPT

③ Stroke [Note1]	
Bore size (mm)	Standard stroke (mm)
10	50 100 150 200 250 300
16	50 100 150 200 250 300 350 400 450 500
20	50 100 150 200 250 300 350 400 450 500 600 700 750 800
25	

[Note1] Consult us for non-standard stroke.

[Note2]Blank on thread code means metric M thread. There is only metric thread for Φ10/Φ16.

Specification

Bore size(mm)	10	16	20	25
Acting type	Double acting			
Fluid	Air(to be filtered by 40μm filter element)			
Operating pressure	22~100psi(0.15~0.7MPa)			
Proof pressure	175psi(1.2MPa)			
Temperature ℃	-20~70			
Speed range mm/s	50~400			
Stroke tolerance mm	$0\sim250\ ^{+1.0}_{0}$		$251\sim800\ ^{+1.5}_{0}$	
Cushion type	Bumper			
Port size [Note1]	M5×0.8		1/8"	
Safe holding force N	55	140	220	345

[Note1] NPT thread is available.

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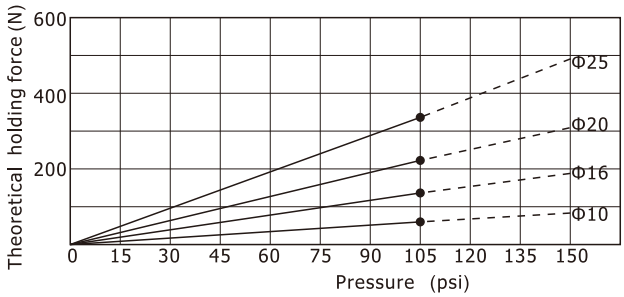
Product feature

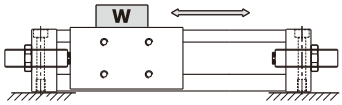
1. This magnetic cylinder is basically a pneumatic rodless cylinder featuring a mobile piston fitted with annular magnets.
   The mobile carriage is also equipped with magnets to provide magnetic coupling (carriage/piston).
   The carriage slide freely along the main tube.
2. It is dust-proof as the isolation between the carriage and piston.
3. It is compact in space.
4. The non adjustable rubber bumpers and the adjustable pneumatic cushioning on both ends of the cylinder ensure the smooth action.
5. With the slide rail, the operation accuracy of the body is high, the body does not rotate accurately, and the load capacity is strong.

Installation and application

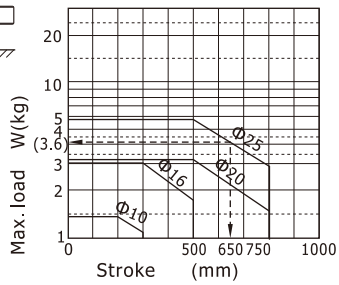
1. The maxi load to move must be less than the theoretical holding force.

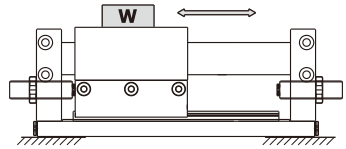


2.The relation between loading and stroke as below(Loading center and slide table center must be superposition)

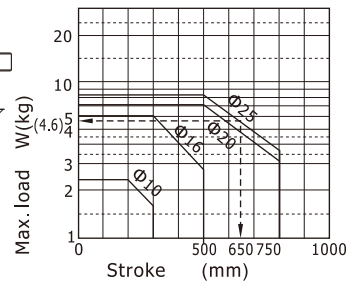


Bore size	Max.Load W(kg)	Stroke scope
10	1.4	~200mm
16	3	~300mm
20	3.6	~500mm
25	4.8	~500mm





Bore size	Max.Load W(kg)	Stroke scope
10	2.4	~200mm
16	5	~300mm
20	6	~500mm
25	8	~500mm



3. About adjusting screw:
   RMH series is compacted with two adjusting screws, but you can replace them with oil shock absorber by conditions.

Bore size	Shock absorber type
10	ACA0806-1
16	ACA1007-1
20	ACA1007-1
25	ACA1412-1

4. When use external limiter to stop load middle way: please refer to RMS series.
5. Dirty substances in the pipe must be eliminated before cylinder is connected with pipeline to prevent the entrance of impurities into the cylinder.
6. The medium used by cylinder shall be filtered to 40μm or below.
7. If the cylinder is dismantled and stored for a long time, pay attention to conduct anti-rust treatment to the surface.
   Anti-dust jam cap shall be added in air inlet and outlet ports.
8. Non-magnetically conductive materials are recommended for workpieces fitted to the cylinder, otherwise the lifetime may be halved if magnetically conductive materials are used.

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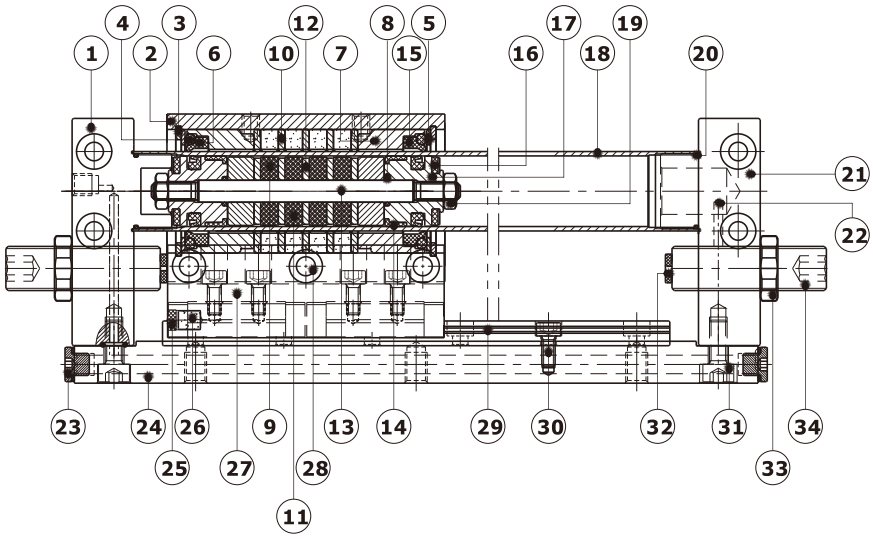
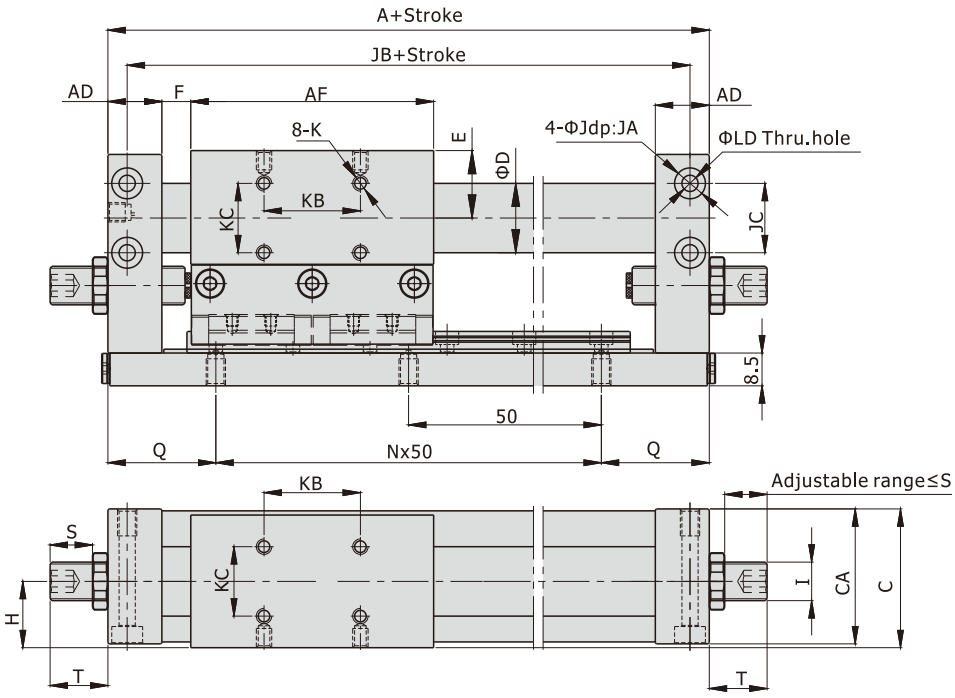
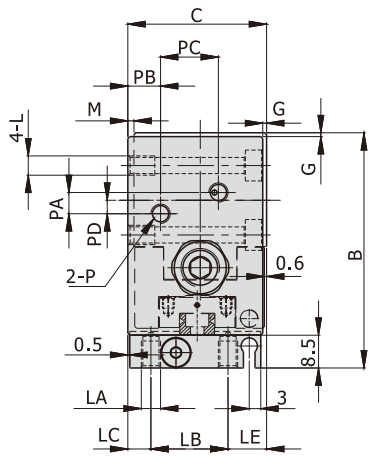
Inner structure



NO.	Item	NO.	Item
1	End cover	18	Barrel
2	Body	19	Nut
3	C Clip	20	O-ring
4	O-ring	21	End cover
5	Washer	22	Steel ball
6	Scraping dust ring	23	Pluger screw
7	Cover	24	Fixed block
8	O-ring	25	Push block
9	Magnet	26	Magnet
10	Magnet washer	27	Jointing block
11	Magnet	28	Bolt
12	Magnet washer	29	Linear rail
13	Connecting rod	30	Bolt
14	Wear ring	31	Bolt
15	Piston seal	32	Bumper
16	Bumper	33	Nut
17	Piston	34	Bolt

Dimensions





[Unit: mm]

Type\Item	A	AD	AF	B	C	CA	D	E	F	G	H	I	J	JA	JB	JC	K	KB	KC	L	LA	LB	LC
RMH10	86	10.5	52	52	30	29	12	14	6.5	1	14	M8X1.0	6	3.5	78	14	M3X0.5dp:4	20	15	M4X0.7dp:6	M4X0.7dp:6	16	4
RMH16	106	14	63	61	36	35	18	17.5	7.5	1	17	M10X1.0	8	4.5	96	18	M4X0.7dp:5	25	18	M5X0.8dp:7	M5X0.8dp:7	20	6
RMH20	124	14	76	71	39	38	22.8	20	10	1	18.5	M10X1.0	9.5	5.5	112	17	M4X0.7dp:5	40	22	M6X1.0dp:8	M6X1.0dp:8	22	5
RMH25	137	17.5	77	76	45	43	27.8	22.5	12.5	2	21.5	M14X1.5	9.5	5.5	124	20	M5X0.8dp:6	40	28	M6X1.0dp:8	M6X1.0dp:8	26	7

Type\Item	P	LD	LE	M	PA	PB	PC	PD	Q	S	T	N												
Stroke												50	100	150	200	250	300	350	400	450	500	600	700	750	800
RMH10	M5X0.8	3.5	10	1.5	4	7.5	11	2	18	10.5	14.5	2	3	4	5	6	7	-	-	-	-	-	-	-	-
RMH16	M5X0.8	4.5	10	1.5	5.5	8.5	15	3.5	28	11	15	2	3	4	5	6	7	8	9	10	11	-	-	-	-
RMH20	1/8"	5.5	12	1.5	0	10	18.5	0	37	8.5	12.5	2	3	4	5	6	7	8	9	10	11	13	15	16	17
RMH25	1/8"	5.5	12	1.5	0	11	22	0	43.5	16	22	2	3	4	5	6	7	8	9	10	11	13	15	16	17