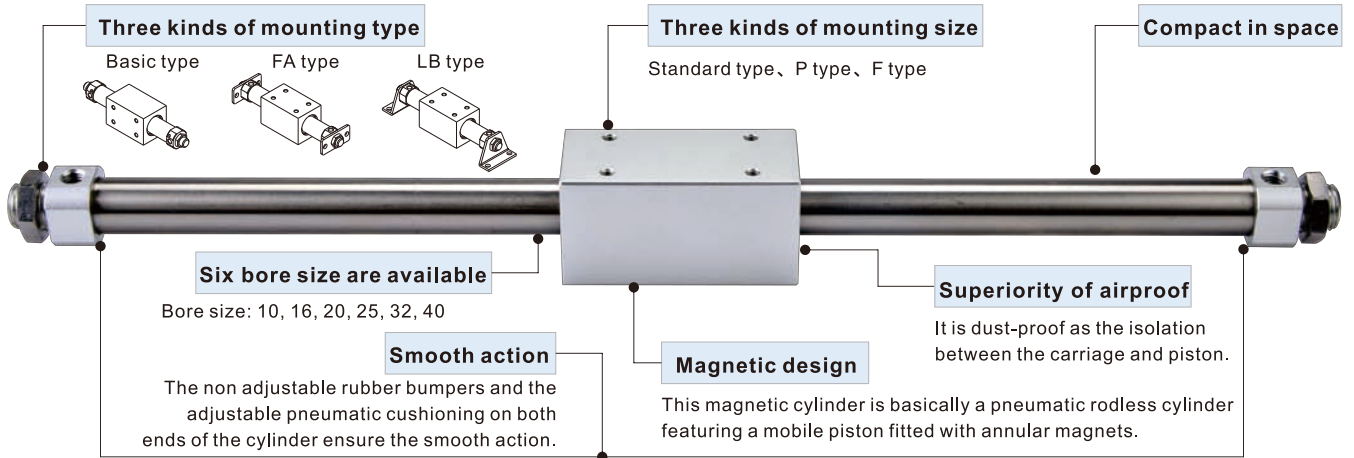




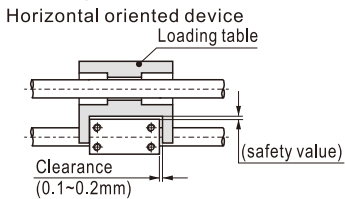
# Rodless magnetic cylinder—RMS Series

## Compendium of RMS Series



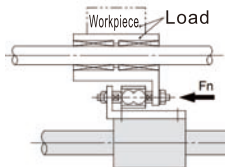
## Installation and application

1. The maxi load to move must be less than the theoretical holding force.
2. How to mount load:
  - 2.1. Horizontal mounting: the permissible radial load must be lower than the figures in the chart below.



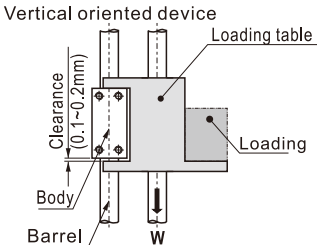
Bore size	10	16	20	25	32	40
Max. Loading table weight(kg)	0.4	1.0	1.1	1.2	1.5	2.0

[Note] If Max. load be larger than the value of above table, please conform with our company.



In horizontal movement, please choose proper bore size based on Force-Velocity chart  
 A. Find required pushing force  
 B. Find moving velocity  
 C. Choose proper spec based on force-Velocity chart

- 2.2. Vertical mounting: The load guiding method should adopt rolling support (linear guide rail, etc.); if the sliding support is used, the sliding resistance will increase due to the load mass and the torque generated by the load, resulting in poor operation.



Bore size	Max. Load weight(Load+table)(kg)
10	2.2
16	5.6
20	8.8
25	15
32	24
40	37

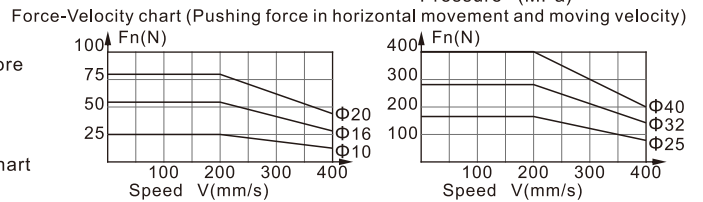
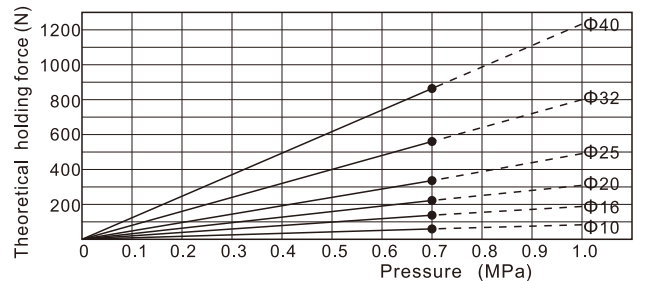
[Note] If pressure be larger than the max. pressure, magnetic core might disengage.

### 3. Middle-stop:

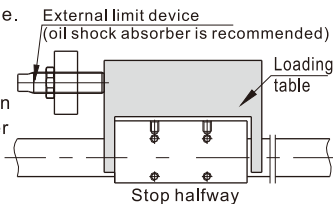
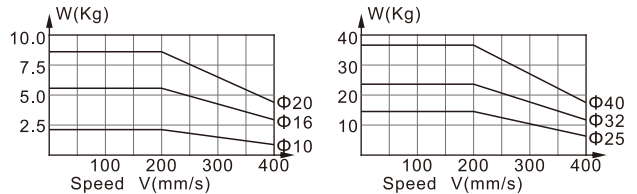
- 3.1 When using stopper mechanism to fulfill middle-stop application, working pressure of cylinder cannot exceeds figures stated in the table on the right. Once working pressure exceeds these figures, energy cannot be absorbed when hitting happens on external stopper and it may cause discouple. Shock absorber is recommended in stopper design. When adjusting the mechanism, observe that if hitting process is done smoothly and there is no bounce happened.
- 3.2 In designing middle-stop application for pneumatic system, allowable kinetic energy must be within figures shown in the table on the right. (Moving speed needs to be smaller than max velocity)

Note : When kinetic energy exceeds allowable figures, discouple will happen, which means body and piston inside the barrel will separate from each other, please be careful when design.

4. Dirty substances in the pipe must be eliminated before cylinder is connected with pipeline to prevent the entrance of impurities into the cylinder.
5. The medium used by cylinder shall be filtered to 40μm or below.
6. 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 ;
7. Non-magnetically conductive materials are recommended for workpieces fitted to the cylinder, otherwise the lifetime may be halved if magnetically conductive materials are used.



Load-Velocity chart (Load in vertical movement and moving velocity)



Bore size	Maximum allowable working pressure for middle-stop
10	0.55MPa
16	0.55MPa
20	0.55MPa
25	0.55MPa
32	0.55MPa
40	0.55MPa

Bore size	Allowable kinetic energy for middle-stop application in pneumatic system(ES)(J)
10	0.03
16	0.13
20	0.24
25	0.45
32	0.88
40	1.53

