

Made to Order Common Specifications: -XC69: MGP Series with Shock Absorber



Symbol

-XC69

51 MGP Series with Shock Absorber

Applicable Series

Series	Description	Model	Action	Note	Vol. no. (for std model)
MGP	Compact guide cylinder	MGPM-Z	Double acting	Except ø12 to ø40	Web Catalog
		MGPL-Z	Double acting		
		MGPA-Z	Double acting		

How to Order **MGP** **M** **50** **□** - **50** **Z** - **Z73** **□** - **XC69**

Compact guide cylinder • Bearing type • Bore size (mm) • Port thread type • Cylinder stroke (mm) • Auto switch • Suffix for auto switch • With shock absorber

M	Slide bearing
L	Ball bushing bearing
A	High precision ball bushing bearing

Specifications of Extension Adjusting Mechanism

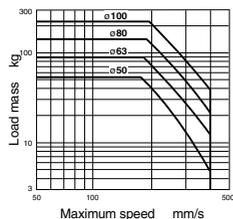
Bore size (mm)	50, 63	80, 100
Shock absorber model	RB2015	RB2725
Maximum energy absorption (J)	58.8	147
Stroke adjustment range (mm)	0 to -25	0 to -30
Piston speed	Refer to the graph below.	

Soft type RJ series type (-XB22) is also available.
For details, refer to -XB22.

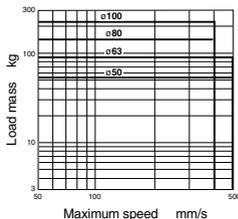
Allowable Kinetic Energy

Load mass and cylinder speed should be observed within the range given in the graph below.

Stroke retracted side (Rubber bumper)



Stroke extended side (Shock absorber)



The shock absorber service life is different from that of the MGP cylinder. Refer to the RB series Specific Product Precautions for the replacement period.

Mounting

Do not allow hands or fingers near the cylinder during its operation.

If finger, etc. were to get caught between shock absorber and body, it might damage on the human body and the peripheral equipment. Take protective measures by mounting a protective cover, etc. as necessary.

Basically, avoid bottom-mounting a cylinder.

Mounting space is limited owing to the guide rod and the end plate, etc. Mount a cylinder by the top mounting or side mounting.

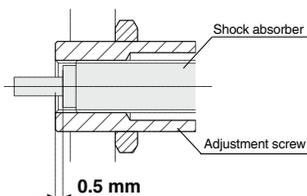
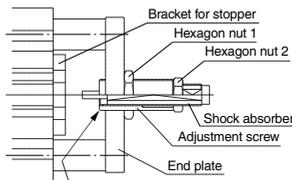
Adjustment

1. How to adjust an adjustment screw (Stroke adjustment)

Loosen only the hexagon nut 1, then turn the adjustment screw to adjust the stroke. After adjusting, lock it with the hexagon nut 1. Fix it at the position ejected from the end plate, so that the end face of an adjustment screw could hit the bracket for stopper directly. (Refer to the figure right above.)

2. How to replace shock absorbers

Loosen hexagon nut 2, and turn a shock absorber counterclockwise for removal. After installing a new shock absorber, fix it at the position that the end face of an adjustment screw sticks out by 0.5 mm from a shock absorber. (Refer to the figure on the right.) After adjusting the position of shock absorber, be sure to secure with hexagon nut 2.



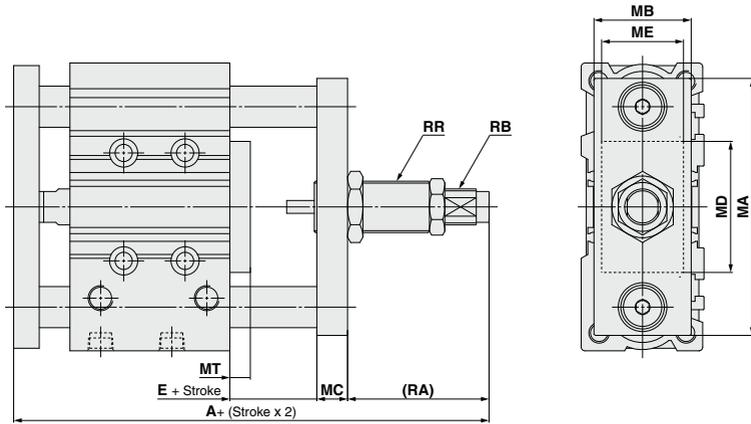
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Dimensions (Dimensions other than below are the same as standard type.)



(mm)

Bore size	A	E	MA	MB	MC	MD	ME	MT	RA	RB	RR
50	155	10	139	60	16	71	38	9	57	RJ2015H	M27 x 1.5
63	160	10	153	60	16	84	50	9	57	RJ2015H	M27 x 1.5
80	212.5	17	190	75	22	114	50	16	77	RJ2725H	M36 x 1.5
100	232	17	228	75	25	140	65	16	74	RJ2725H	M36 x 1.5