

Mechanically Jointed Rodless Cylinder Slide Bearing Guide Type

Series MY1M

ø16, ø20, ø25, ø32, ø40, ø50, ø63

How to Order

Slide bearing guide type MY1M 20 G - 300 L S - M9BW

Slide bearing guide type

Bore size (mm)

16	16 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm

Port thread type

Symbol	Type	Bore size
Nil	M thread	ø16, ø20
Rc	Rc	ø25, ø32,
TN	NPT	ø40, ø50,
TF	G	ø63

Piping

Nil	Standard type
G	Centralized piping type

Stroke (mm)

Refer to "Standard Stroke" on page 981.

Stroke adjusting unit

Nil	Without adjusting unit
A	With adjusting bolt
L	With low load shock absorber + Adjusting bolt
H	With high load shock absorber + Adjusting bolt
AL	With one A unit and one L unit
AH	With one A unit and one H unit each
LH	With one L unit and one H unit each

Number of auto switches

Nil	2 pcs.
S	1 pc.
n	"n" pcs.

Made to Order
Refer to page 981 for details.

Suffix for stroke adjusting unit

Nil	Both ends
S	One end

Note) "S" is applicable for stroke adjusting units A, L and H.

Auto switch

Nil	Without auto switch (Built-in magnet)
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Applicable auto switches vary depending on the bore size. Select an applicable one referring to the table below.

Shock Absorbers for L and H Units

Bore size (mm)	16	20	25	32	40	50	63
L unit	RB0806	RB1007	RB1412	RB2015	RB2725		
H unit	—	RB1007	RB1412	RB2015	RB2725		

Note) MY1M16 is not available with H unit.

Applicable Auto Switch/Refer to pages 1263 to 1371 for further information on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage			Auto switch model				Lead wire length (m)				Pre-wired connector	Applicable load			
					DC	AC	Perpendicular		In-line		0.5 (Nil)	1 (M)	3 (L)	5 (Z)						
							ø16, ø20	ø25 to ø63	ø16, ø20	ø25 to ø63										
Solid state switch	—	Grommet	Yes	3-wire (NPN)	24V	5V, 12V	—	M9NV ** [Y69A]		M9N ** [Y59A]		●	● [—]	●	○	○	IC circuit	Relay, PLC		
				M9PV ** [Y7PV]				M9P ** [Y7P]		●	● [—]	●	○	○						
				M9BV ** [Y69B]				M9B ** [Y59B]		●	● [—]	●	○	○	—					
	3-wire (NPN)			24V				5V, 12V	—	M9NWW ** [Y7NWW]		M9NW ** [Y7NW]		●	● [—]	●	○		○	IC circuit
	3-wire (PNP)									M9PWW ** [Y7PWW]		M9PW ** [Y7PW]		●	● [—]	●	○		○	
	2-wire									M9BWW ** [Y7BWW]		M9BW ** [Y7BW]		●	● [—]	●	○		○	
	Reed switch	—	Grommet	Yes	3-wire (NPN equivalent)	—	5V	—	A96V	—	A96	Z76	●	—	●	—	—	IC circuit	—	
2-wire					24V	12V	100V	A93V	—	A93	—	●	—	●	—	—	—	—	Relay, PLC	
								—	—	—	Z73	●	—	●	●	—	—			
			No			100V or less		A90V	—	A90	Z80	●	—	●	—	—	IC circuit			

* Lead wire length symbols: 0.5 m Nil (Example) M9NW
1 m M (Example) M9NWM
3 m L (Example) M9NWL
5 m Z (Example) M9NWZ

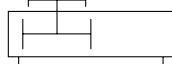
* Solid state auto switches marked with "○" are produced upon receipt of order.
** D-M9□□□ type cannot be mounted on ø25 to ø40.
Select auto switches in brackets.

* There are other applicable auto switches than listed above. For details, refer to page 1053.
* For details about auto switches with pre-wired connector, refer to pages 1328 and 1329.
* Auto switches are shipped together (not assembled).

Mechanically Jointed Rodless Cylinder Slide Bearing Guide Type **Series MY1M**



JIS Symbol



Specifications

Bore size (mm)	16	20	25	32	40	50	63
Fluid	Air						
Action	Double acting						
Operating pressure range	0.15 to 0.8 MPa						
Proof pressure	1.2 MPa						
Ambient and fluid temperature	5 to 60°C						
Cushion	Air cushion						
Lubrication	Non-lube						
Stroke length tolerance	1000 or less $+1.8$ ₀ 1001 to 3000 $+2.8$ ₀		2700 or less $+1.8$ ₀ , 2701 to 5000 $+2.8$ ₀				
Piping portsize	Front/Side port	M5 x 0.8		Rc 1/8		Rc 1/4	Rc 3/8
	Bottom port	ø4		ø5	ø6	ø8	ø10 ø11

Stroke Adjusting Unit Specifications

Bore size (mm)	16			20			25			32			40			50			63		
Unit symbol	A	L	H	A	L	H	A	L	H	A	L	H	A	L	H	A	L	H	A	L	H
Configuration Shock absorber model	With adjusting bolt	RB 0806 + with adjusting bolt		With adjusting bolt	RB 0806 + with adjusting bolt	RB 1007 + with adjusting bolt	With adjusting bolt	RB 1007 + with adjusting bolt	RB 1412 + with adjusting bolt	With adjusting bolt	RB 1412 + with adjusting bolt	RB 2015 + with adjusting bolt	With adjusting bolt	RB 1412 + with adjusting bolt	RB 2015 + with adjusting bolt	With adjusting bolt	RB 2015 + with adjusting bolt	RB 2725 + with adjusting bolt	With adjusting bolt	RB 2015 + with adjusting bolt	RB 2725 + with adjusting bolt
Fine stroke adjustment range (mm)	0 to -5			0 to -6			0 to -11.5			0 to -12			0 to -16			0 to -20			0 to -25		
Stroke adjustment range	When exceeding the stroke fine adjustment range: Utilize a made-to-order specifications “-X416” and “-X417”.																				

* Stroke adjustment range is applicable for one side when mounted on a cylinder.

Shock Absorber Specifications

Model	RB 0806	RB 1007	RB 1412	RB 2015	RB 2725
Max. energy absorption (J)	2.9	5.9	19.6	58.8	147
Stroke absorption (mm)	6	7	12	15	25
Max. collision speed (mm/s)	1500				
Max. operating frequency (cycle/min)	80	70	45	25	10
Spring force (N)	Extended	1.96	4.22	6.86	8.34
	Retracted	4.22	6.86	15.98	20.50
Operating temperature range (°C)	5 to 60				

* The shock absorber service life is different from that of the MY1M cylinder depending on operating conditions. Refer to the RB Series Specific Product Precautions for the replacement period.



Made to Order Specifications (For details, refer to pages 1395 to 1565.)

Symbol	Specifications
—XB11	Long stroke
—XC67	NBR rubber lining in dust seal band
—X168	Helical insert thread specifications
—X416	Holder mounting bracket I
—X417	Holder mounting bracket II

Standard Stroke

Bore size (mm)	Standard stroke (mm) *	Maximum manufacturable stroke (mm)
16	100, 200, 300, 400, 500, 600, 700	3000
20, 25, 32, 40, 50, 63	800, 900, 1000, 1200, 1400, 1600, 1800, 2000	5000

* Strokes are manufacturable in 1 mm increments, up to the maximum stroke. However, when exceeding a 2000 mm stroke, specify "-XB11" at the end of the model number.

Piston Speed

Bore size (mm)	16 to 63
Without stroke adjusting unit	100 to 1000 mm/s
Stroke adjusting unit	A unit
	L unit and H unit

Note 1) Be aware that when the stroke adjusting range is increased by manipulating the adjusting bolt, the air cushion capacity decreases. Also, when exceeding the air cushion stroke ranges on page 984, the piston speed should be 100 to 200 mm per second.

Note 2) The piston speed is 100 to 1000 mm/s for centralized piping.

Note 3) Use at a speed within the absorption capacity range. Refer to page 984.

MY1B

MY1M

MY1C

MY1H

MY1HT

MY1□W

MY2C

MY2H□

MY3A

MY3B

MY3M

D-□

-X□

Individual

-X□

Technical data