Mechanically Jointed Rodless Cylinder Basic Type

Series MY1B ø10, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100



With one L unit and one H unit each Boro sizo Only the A unit is available for ø16. Stroke adjusting unit is not available for ø50, ø63, ø80 and ø100. For detailed information on stroke adjusting unit specifications, refer to page 957.

Unit no. (mm)	10	20	25	32	40
L unit		RB0806	RB1007	RB1	412
H unit	RB0805	RB1007	RB1412	RB2	2015

The shock absorber service life is different from that of the MY1B cylinder depending on operating conditions. Refer to the RB Series Specific Product Precautions for the replacement period.

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

		Fleetrical	light		L	oad volta.	ge		Auto swi	itch mode		Lead	wire le	ength	ו (m)	Dro wirod										
Туре	Special function	entry	ator	Wiring (Output)	г		40	Perpen	dicular	In-li	ne	0.5	1	3	5	connector	Applical	ole load								
		- C,	Indic		DC AC		ø10 to ø20	ø25 to ø100	ø10 to ø20	ø25 to ø100	(Nil)	(M)	(L)	(Z)												
				3-wire (NPN)				M9 [Y6	NV ** 9A]	M9 [Y59	N **)A]	•	•	•	0	0										
/itch				3-wire (PNP)		5V, 12V		M9 [Y7	PV ** PV]	M9 [Y7	P ** P]	•	•	•	0	0	IC circuit									
ate sv	6	Grommet Grommet	- Grommet Ye	_	_					2-wire	0414	12V		M9 [Y6	BV ** 9B]	M9B ** [Y59B]		•	•	•	0	0	—	Relay,		
olid st	Diagnostic indication (2-color indication)			105	3-wire (NPN)	24 V	51/ 121/		M9N [Y7N	IWV ** WV]	M9N [Y7N	IW ** IW]	•	•	•	0	0		PLC							
Sc													3-wire (PNP)	(PNP)) '	M9P [Y7P	** VW WV]	M9F [Y7P	PW ** PW]	•	● [—]	•	0	0	
											2-wire	.0	12V		M9E [Y7B	SWV ** SWV]	M9E [Y7E	BW ** BW]	•	•	•	0	0	_		
vitch				3-wire (NPN equivalent)	Y	5V		A96V	Ι	A96	Z76	•	—		Л	-	IC circuit	_								
l s'	—	Grommet	Grommet Yes	Yes				1001/	A93V	_	A93	_		—		—	_									
ee				2-wire	24V	12V	1000	_	_	— Z73			—			—		Relay, PLC								
ŭ			No				100V or less	A90V	_	A90	Z80		—		—	—	IC circuit	. 20								

* Lead wire length symbols: 0.5 m Nil (Example) M9NW (Example) M9NWM 1 m M

 Solid state auto switches marked with "O" are produced upon receipt of order. ** D-M9
T
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type cannot be mounted on ø50. Select auto switches in brackets.

3 m L (Example) M9NWL 5 m Z

(Example) M9NWZ

MAS

* 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).

956

Mechanically Jointed Rodless Cylinder Basic Type Series MY1B

JIS Symbol

Specif	ications	5										
Bore size	(mm)	10 💋	16	20	25	32	40	50	63	80	100	
Fluid		Air										
Action		Double acting										
Operating p	ressure range	0.2 to 0.8MPa 0.1 to 0.8 MPa										
Proof p	ressure	1.2 MPa										
Ambient and f	luid temperature	5 to 60°C										
Cushior		Rubber bumper Air cushion										
Lubrica	tion	Non-lube										
Stroke leng	gth tolerance	1000 or less $^{+0.8}_{0.8}$ 2700 or less $^{+0.8}_{0.8}$, 2701 to $5000^{+2.8}_{0.8}$										
Pining	Front/Side port	M5 >	M5 x 0.8		Rc	1/8	Rc 1/4	Rc	3/8	Rc	1/2	
Port size	Bottom port		e	0 4	ø5	ø6	ø8	ø10	ø11	ø16	ø18	

Stroke Adjusting Unit Specifications

Bore size (mm)		0	16		20			25			32			40		Ī
Unit symbol	А	н	Α	Α	L	н	Α	L	Н	А	L	н	Α	L	н	Ľ
Configuration Shock absorber model	With adjusting bolt	RB 0805 + with adjusting bolt	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	
Fine stroke adjustment range (mm)	0 to -5 0 to -5.6 0 to -6 0 to -11.5 0 to -12 0 to -16								L							
Stroke adjustment range	tment 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 0805	RB 0806	RB 1007	RB 1412	RB 2015
Max. energy a	bsorption (J)	1.0	2.9	5.9	19.6	58.8
Stroke abso	rption (mm)	5	6	7	12	15
Max. collision	speed (mm/s)	1000	1500	1500	1500	1500
Max. operating free	uency(cycle/min)	80	80	70	45	25
Spring	Extended	1.96	1.96	4.22	6.86	8.34
force (N)	Retracted	3.83	4.22	6.86	15.98	20.50
Operating temper	ature range (°C)			5 to 60		

ige (C)

The shock absorber service life is different from that of the MY1B cylinder depending on operating conditions. Refer to the RB Series Specific Product Precautions for the replacement period.

Made to Made to Order Specifications Order

(For details, refer to pages 1395 to 1565.)

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

660.013

Standard Stroke

Bore size (mm)	Standard stroke (mm)*	Maximum manufacturable stroke (mm)			
10, 16	100, 200, 300, 400, 500, 600, 700	3000			
20, 25, 32, 40 50, 63, 80, 100	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.





SM

Piston Speed

Bore size (m	m)	10	16 to 100		
Without strok	e adjusting unit	100 to 500 mm/s	100 to 1000 mm/s		
Stroke	A unit	100 to 200 mm/s	100 to 1000 mm/s (1)		
adjusting unit	L unit and H unit	100 to 1000 mm/s	100 to 1500 mm/s (2)		

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 960, 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 959.

MY1M MY1C MY1H MY1HT IY10W AY2C IY2H□ MY3A My3b

MY3M

MY1B