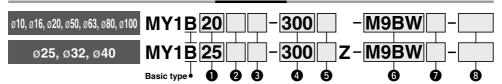
Mechanically Jointed Rodless Cylinder Basic Type

MY1B Series

Ø10, Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63, Ø80, Ø100

How to Order



Bore size

10	10 mm
16	16 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm

2 Port thread type

Symbol	Type	Bore size					
Nil	M thread	ø10, ø16, ø20					
1411	Rc	ø25, ø32, ø40,					
TN	NPT	ø50, ø63, ø80,					
TF	G	ø100					

R Piping

Nil	Standard type						
G	Centralized piping type						

Note) For ø10, only G is available.

4 Cylinder stroke (mm)

Bore size	Standard stroke*1	Long stroke (-XB11)	Maximum manufacturable		
			stroke		
10, 16	100, 200, 300, 400 500, 600, 700, 800 900, 1000, 1200, 1400	Strokes of 2001 to 3000 mm (1 mm increments) exceeding the standard stroke	3000		
20, 25, 32 40, 50, 63 80, 100	1600, 1800, 2000 *1 The stroke can be manufactured in 1 mm increments from 1 mm stroke.	Strokes of 2001 to 5000 mm (1 mm increments) exceeding the standard stroke	5000		

* Add "-XB11" to the end of the part number for long strokes. MY1B20-3000L-M9BW-XB11

Note) Please be advised that with stroke 49 or less, there are cases where auto switch mounting is not possible and the performance of the air cushion may decline.

Stroke adjustment unit symbol Refer to "Stroke adjustment unit" on page 1239.

6 Auto switch

Nil Without auto switch (Built-in magnet) For ø10 cylinders without an auto switch, the cylinder configuration is for the reed auto switch.

Contact SMC when the solid state auto switch is retrofitted. Applicable auto switches vary depending on the bore size. Select an applicable one referring to the table below



Made to Order: Individual Specifications (For details, refer to page 1334.)

Symbol	Specifications
-X168	Helical insert thread specifications

Made to Order Specifications

CHCK III	Click liefe for details										
Symbol	Symbol Specifications										
-XB11	Long stroke type										
-XB22	Shock absorber soft type RJ series type										
-XC67*	NBR rubber lining in dust seal band										

* Only ø16, ø20, ø50, and ø63 are available for the -XC67

Number of auto switches

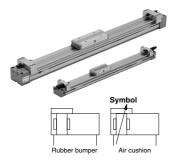
2 pcs.
1 pc.
"n" pcs.

Applicable Auto Switches/Refer to pages 1575 to 1701 for further information on auto switches

	T		븅		Lo	ad volta	ge		Auto swit	ch model		Lea	d wire ler	ngth (r	m)						
Тур	Special		atoright	Wiring		200	100	Perper	dicular	In-line		0.5	1	3	5	Pre-wired	Appli				
	function		hdic	(Output)	DC		AC	ø10 to ø40	ø50 to ø100	ø10 to ø40	ø50 to ø100	(Nil) (M) (L)	(L)	(Z)	connector	108	load				
ç				3-wire (NPN)		5 V. 12 V		M9NV[Y	/69A]**	M9N[Y	59A]**	•	●[—]	•	0	0	IC				
switch	_			3-wire (PNP)		12 V	M9PV[Y	/7PV]**	M9P[Y	′7P]**	•	●[—]	•	0	0	circuit					
				2-wire				M9BV[Y	/69B]**	M9B[Y	59B]**	•	●[—]	•	0	0	_				
육	Diagnostic indication (2-color indicator)	ation dicator) ter tant]		3-wire (NPN)		5 V. 12 V		M9NWV[Y	M9NWV[Y7NWV]** M9NW[Y7NW]**		7NW]**	•	●[—]	•	0	0	IC	Relay,		
ā			Yes	3-wire (PNP)	24 V	5 V, 12 V	-	M9PWV[Y	7PWV]**	M9PW[Y	'7PW]**	•	●[—]	•	0	0		PLC			
state								2-wire		12 V		M9BWV[Y	7BWV]**	M9BW[Y	7BW]**	•	●[—]	•	0	0	_
d St	Water			3-wire (NPN)		5 V. 12 V	,]	M9NA	V [—]‡₹	M9NA		0	0	•	0	0	IC				
∺	resistant				3-wire (PNP)		5 V, 12 V		M9PA		М9РА		0	0	•	0	0	circuit			
ű	(2-color indicator)			2-wire		12 V		M9BA	V [—]***	M9BA[Y	7BA]***	0	0	•	0	0	_				
Reed		C	rommet Yes	3-wire (NPN equivalent)	_	5 V	_	A96V	_	A96	Z 76	•	_	•	_	_	IC circuit	-			
æ	<u> </u>	Grommet		2-wire	24 V	12 V	100 V	A93V*3	_	A93	Z73	•	•	•	•	_	_	Relay,			
	8		No	Z-WIFE	24 V	12 0	100 V or less	A90V	_	A90	Z80	•	_	•	_	_	IC circuit	PLC			

- *1 Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance Consult with SMC regarding water resistant types with the above model numbers.
- *2 For details on switch mounting brackets and part numbers, refer to "Switch Mounting Bracket: Part No." on page 1333-1.
- *3 1 m type lead wire is only applicable to D-A93.
- * Lead wire length symbols: 0.5 m ······· Nil (Example) M9NW
 - (Example) M9NWL
 - 3 m L 5 m Z (Example) M9NWZ
- * Solid state auto switches marked with "O" are produced upon receipt of order.
- 1 m ······· M (Example) M9NWM ** D-M9 \underset type cannot be mounted on ø50. Select auto switches in brackets.
- * There are other applicable auto switches than listed above. For details, refer to page 1333-1.
- * Auto switches are shipped together (not assembled)

Mechanically Jointed Rodless Cylinder MY1B Series



Specifications

Bore s	size (mm)	10	16	20	25	32	40	50	63	80	100
Fluid						Air					
Action Operating pressure rang Proof pressure Ambient and fluid temperatu Cushion Lubrication			Double acting								
Operating	pressure range	0.2 to 0.8 MPa	to 0.8 MPa 0.15 to 0.8 MPa 0.1 to 0.8 MPa								
Proof pr	ressure										
Ambient and	fluid temperature					5 to 60	°C				
Cushion	1	Rubber bumper	ber bumper Air cushion								
Lubricat	tion					Non-lu	be				
Stroke len	gth tolerance	1000 or les 1001 to 30	ss +1.8 00 +2.8		2	700 or I	ess ^{+1.8} ,	2701 to	5000 ±	2.8	
Piping	Front/Side port	M5	8.0 x		1,	/8	1/4	3.	/8	1,	2
	Bottom port		ø	4	Ø	6	ø8	ø	10	ø.	18

Piston Speed

Bore	size (mm)	10	16	20 to 40	50 to 100		
Without stroke ac	ljustment unit	100 to 500 mm/s					
Stroke	A unit	100 to 200 mm/s	100 to 100	_			
adjustment unit	L unit and H unit	100 to 1000 mm/s	_	100 to 1500 mm/s (1)	_		

Note 1) Be aware that when the stroke adjustment range is increased by manipulating the adjustment bolt, the air cushion capacity decreases.

Also, when exceeding the air cushion stroke ranges on page 1241, 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 1241.

Stroke Adjustment Unit Specifications

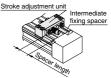
	<u>,</u>		- ' -	- 10												
Bore si	ze (mm)	1	0	16 20				25			32			40		
Unit symbo	ol	Α	Н	Α	Α	L	Н	Α	L	Н	Α	L	Н	Α	L	Н
	orber model		RB 0805 + with adjustment bolt	With adjustment bolt	With adjustment bolt	RB 0806 + with adjustment bolt	RB 1007 + with adjustment bolt	With adjustment bolt	With	RB 1412 + with adjustment bolt	With adjustment bolt	RB 1412 + with adjustment bolt	RB 2015 + with adjustment bolt	With adjustment bolt	RB 1412 + with adjustment bolt	RB 2015 + with adjustment bolt
Stroke adjustment range by	Without spacer	0 to	− 5	0 to -5.6		0 to -6		C	0 to -11.5		0 to -12		0 to -16			
intermediate	With short spacer	_	_	-5.6 to -11.2		−6 to −12			-11.5 to -23			-12 to -24			-16 to -32	
fixing spacer (mm)	With long spacer —		_	-11.2 to -16.8	-12 to -18			-23 to -34.5			-24 to -36			-32 to -48		

Note) Intermediate fixing spacer is not available for ø10.

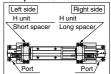
Stroke Adjustment Unit Symbol

					Right si	de stroke	e adjustn	nent unit				
			Without	A: With	adjustm	ent bolt	L: With lov + Adjustm	v load shock ent bolt	k absorber	H: With high load shock absorber + Adjustment bolt		
			unit		With short spacer	With long spacer		With short spacer	With long spacer		With short spacer	With long spacer
Ħ	Wit	hout unit	Nil	SA	SA6	SA7	SL	SL6	SL7	SH	SH6	SH7
adjustment unit	A: With a	djustment bolt	AS	Α	AA6	AA7	AL	AL6	AL7	AH	AH6	AH7
ner		With short spacer	A6S	A6A	A6	A6A7	A6L	A6L6	A6L7	A6H	A6H6	A6H7
nstı		With long spacer	A7S	A7A	A7A6	A7	A7L	A7L6	A7L7	A7H	A7H6	A7H7
adji		oad shock absorber +	LS	LA	LA6	LA7	L	LL6	LL7	LH	LH6	LH7
ş	Adjustment	With short spacer	L6S	L6A	L6A6	L6A7	L6L	L6	L6L7	L6H	L6H6	L6H7
stroke	bolt	With long spacer	L7S	L7A	L7A6	L7A7	L7L	L7L6	L7	L7H	L7H6	L7H7
g		load shock absorber +	HS	HA	HA6	HA7	HL	HL6	HL7	Н	HH6	HH7
ftsi	Adjustment	With short spacer	H6S	H6A	H6A6	H6A7	H6L	H6L6	H6L7	Н6Н	H6	Н6Н7
Left	bolt	With long spacer	H7S	H7A	H7A6	H7A7	H7L	H7L6	H7L7	H7H	H7H6	H7

Stroke adjustment unit mounting diagram



Example of H6H7 attachment



Refer to pages 1331 to 1333-1 for the specifications with auto switch.

Note 4) Due to the construction of this product, it may have more fluctuation in operating speed compared to a rod type air cylinder. For applications that require constant speed, select the equipment corresponding to the required level.

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

^{*} Spacers are used to fix the stroke adjustment unit at an intermediate stroke position.

For details on spacers and stroke adjustment units, refer to "Accessory Bracket (Option)" on page 1251-1.