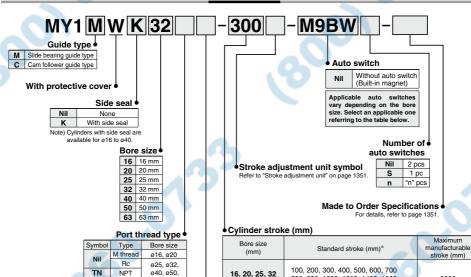
### **Mechanically Jointed Rodless Cylinder with Protective Cover** Slide Bearing Guide Type, Cam Follower Guide Type

# ∃**W Series**

Ø16, Ø20, Ø25, Ø32, Ø40, Ø50, Ø63

#### How to Order



Piping •

Nil Standard type Centralized piping type

ø63

The stroke can be manufactured up to the maximum stroke from 1 mm stroke in 1 mm increments. However, when the stroke is 49 mm or less, the air cushion capability lowers and multiple auto switches cannot be mounted. Pay special attention to this point.

Also when exceeding a 2000 mm stroke, specify "-XB11" at the end of the model number. For details, refer to the "Made to Order Specifications".

800, 900, 1000, 1200, 1400, 1600

1800, 2000

3000

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

		Fig. 1. Sec. 1	JO.	140	I	_oad vo	tage		Auto	switch m	odel	Lead	wire l	engt	n (m)	Pre-wired							
Туре	e Special Electrical entry		ndicator	Wiring (Output)		DC AC		Perpendicular		In-line	0.5	1	3	5	connector	Applica	ble load						
	idilotion	Citaly	Ě	(Output)		50	AC	ø16, ø20	ø25 to ø40	ø50, ø63	ø16, ø20   ø25 to ø63	(Nil)	(M)	(L)	(Z)	Connector							
Ę				3-wire (NPN)		5 V, 12 V		_	M9NV	7 - 0	M9N	•	•	•	0	0	IC circuit						
switch				3-wire (PNP)		3 V, 12 V		_	M9PV	<u></u>	M9P	•	•	•		O IC cir	IC CITCUIT	.1					
				2-wire		12 V		_	M9BV		M9B	•	•	•	0	0	_						
anto	Diagnostic	Grommet		3-wire (NPN)		E 1/ 10 1	5 V, 12 V		_	M9NWV	_	M9NW	•	•	•	0	0	IC circuit	D-1				
	indication (2-color Gromme		Grommet	Grommet	Grommet	Yes	3-wire (PNP)	24 V	5 V, 12 V	_	_	M9PWV		M9PW	•	•	•	0	0	IC circuit	Relay, PLC		
state	indicator)			2-wire		12 V			_	M9BWV	_	M9BW	•	•	•	0	0	_	' - 0				
	Water			3-wire (NPN)		5 V, 12 V		<del>-</del>	M9NAV*1	_	M9NA*1		0	•	0	0	IC circuit						
흥	resistant (2-color			3-wire (PNP)		5 V, 12 V	1		M9PAV*1	_	M9PA*1	0	0	•	0	0	TIC CITCUIT						
ဟ	indicator)			2-wire		12 V			M9BAV*1	_	M9BA*1	0	0	•	0	0	_						
- 5 달								Yes	3-wire (NPN equivalent)	_	5 V			_	_	A96 Z76	•	-	•	-	_	IC circuit	_
Reed auto switch		Grommet	165	2 uriro	24 V	12 V	100 V	<b>D</b> —	_	_	A93 Z73*2	•	•	•	•	_	_	Relay,					
쁄			No	2-wire   24 V	24 V	12 V	100 V or less	_	_	_	A90 Z80	•	_	•	_	_	IC circuit	PLC					

40, 50, 63

- \*1 Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.
- \* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NW \* Solid state auto switches marked with "O" are produced upon receipt of order.
  - 1 m ..... M (Example) M9NWM 3 m----···L (Example) M9NWL 5 m ······Z (Example) M9NWZ
- \* Separate switch spacers (BMG2-012) are required to retrofit auto switches (M9 type) on cylinders ø25 to ø63.
- \*2 1 m type lead wire is only applicable to D-A93.
- \* Refer to page 1360 for details on other applicable auto switches than listed above.
- \* For details about auto switches with pre-wired connector, refer to pages 1648 and 1649.
- \* Auto switches are shipped together (not assembled). (Refer to pages 1359 to 1361 for the details of auto switch mounting.)

## Mechanically Jointed Rodless Cylinder With Protective Cover MY1 W Series



#### Made to Order Specifications Click here for details

Symbol	Specifications
-XB11	Long stroke
-XB22	Shock absorber soft type RJ series type
-XC67	NBR rubber lining in dust seal band

#### **Specifications**

Bore s	size (mm)	16	20	25	32	40	50	63				
Fluid		Air										
Action		Double acting										
Operating p	ressure range	MY1MW: 0.15 to 0.8 MPa; MY1CW: 0.1 to 0.8 MPa										
Proof pres	sure	1.2 MPa										
Ambient and	fluid temperature	5 to 60°C										
Cushion		Air cushion										
Lubricatio	n	Non-lube										
Stroke len	gth tolerance	1000 or less *1.8 1001 to 3000 *2.8	2700 or less*1.8, 2701 to 3000*2.8									
Piping Front/Side port		M5 x 0.8		Rc 1	1/8	Rc 1/4	Ro	3/8				
port size	<b>Bottom port</b>	ø4 //		Ø	6	ø8 ø10		10				

#### **Piston Speed**

Bore size (mm)		16 to 63					
Without stroke adjustment ur	nit	100 to 1000 mm/s					
Stroke adjustment unit	A unit	100 to 1000 mm/s (1)					
Stroke adjustment unit	L unit	100 to 1500 mm/s (2)					

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 1346, 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 1346.

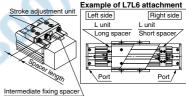
#### Stroke Adjustment Unit Specifications

Bore size (mm)	1	6 🧳	2	0	2	5	3	2	4	0	5	0	6	3	
Unit symbol		Α	L	Α	L	Α	L	Α	L	Α	L	Α	L	A	L
Configuration Shock absorber model		With adjustment bolt	RB 0806 + with adjustment bolt	With adjustment bolt	RB 0806 + with adjustment bolt	With adjustment bolt	RB 1007 + with adjustment bolt	With adjustment bolt	RB 1412 + with adjustment bolt	With adjustment bolt	RB 1412 + with adjustment bolt	With adjustment bolt	RB 2015 with adjustment bolt	With adjustment bolt	RB 2015 + with adjustment bolt
Stroke adjustment range by intermediate fixing spacer (mm)  Without spacer With short spacer With long spacer		0 to	-5.6	0 to	o −6	0 to -	-11.5	0 to	-12	0 to	-16	0 to	-20	0 to	-25
		-5.6 to	-11.2	-6 to −12		-11.5 to -23		-12 to -24		-16 to -32		-20 to -40		-25 to	o –50
		-11.2 t	o –16.8	-12 to -18		-23 to -34.5		-24 to -36		-32 to -48		-40 to -60		−50 to −75	

<sup>\*</sup> Stroke adjustment range is applicable for one side when mounted on a cylinder.

#### Stroke Adjustment Unit Symbol

ſ					Right side stroke adjustment unit									
				Without	A: With	adjustm	ent bolt	L: With lov + Adjustm	k absorber					
١				unit		With short spacer	With long spacer		With short spacer	With long spacer				
ĺ		Wit	thout unit	Nil	SA	SA6	SA7	SL	SL6	SL7				
ı	를	A: With adjustment bolt		AS	Α	AA6	AA7	AL	AL6	AL7				
ı	stroke int unit		With short spacer	A6S	A6A	A6	A6A7	A6L	A6L6	A6L7				
ı	side : stme		With long spacer	A7S	A7A	A7A6	A7	A7L	A7L6	A7L7				
			oad shock absorber +	LS	LA	LA6	LA7	L	LL6	LL7				
ı	흌	Adjustment	With short spacer	L6S	L6A	L6A6	L6A7	L6L	L6	L6L7				
Į		DOIL	With long spacer	L7S	L7A	L7A6	L7A7	L7L	L7L6	L7				



Stroke adjustment unit mounting diagram

#### Shock Absorbers for L Unit

Type	Stroke adjustment			Bore siz	ze (mn	n)		
Туре	unit	16	20	25	32	40	50	63
Standard (Shock absorber/RB series)	L	RBC	806	RB1007	RB1412		RB2015	
Shock absorber/soft type RJ series mounted (-XB22)	ź	RJ08	306H	RJ1007H	RJ14	412H	-	-

<sup>\*</sup> The shock absorber service life is different from that of the MY1□W cylinder depending on operating conditions. Refer to the RB Series Specific Product Precautions for the replacement period.

**Shock Absorber Specifications** 

Mod	lel	RB 0806	RB 1007	RB 1412	RB 2015				
Max. energy ab	sorption (J)	2.9	5.9	19.6	58.8				
Stroke absor	ption (mm)	6 7 12 1							
Max. collision s	peed (mm/s)	1500							
Max. operating frequ	ency (cycle/min)	80	70	45	25				
Spring	Extended	1.96	4.22	6.86	8.34				
force (N)	4.22 6.86 15.98 20.5								
Operating tempera	ture range (°C)	5 to 60							

<sup>\*</sup> The shock absorber service life is different from that of the MY1□W cylinder depending on operating conditions. Refer to the RB Series Specific Product Precautions for the replacement period.



1351 A

D-□

MY1B MY1H

MY1B

MY1M

MY1C MY1H MY1

MY2C MY2

H/HT

MY3A MY3B

MY3M

-X□



<sup>\*</sup> Spacers are used to fix the stroke adjustment unit at an intermediate stroke position

<sup>\*</sup> Mounted shock absorber soft type RJ series (-XB22) is made to order specifications. For details, refer to page 1752.