Mechanically Jointed Rodless Cylinder with Protective Cover

MY1 W Series

ø16, ø20, ø25, ø32, ø40, ø50, ø63

Protective cover offers excellent dust and water resistance



Series	Guide type	Cover	16	Bore size (mm) 16 20 25 32 40 50 63						Option	
MY1MW	Slide bearing guide Cam follower guide	With protective cover									
MY1MWK		With protective cover With side seal	0		0		0			 Centralized piping Stroke adjusting unit 	D
MY1CW		With protective cover								Side support	-x
MY1CWK		With protective cover With side seal	0	0	0	0	0				Tech

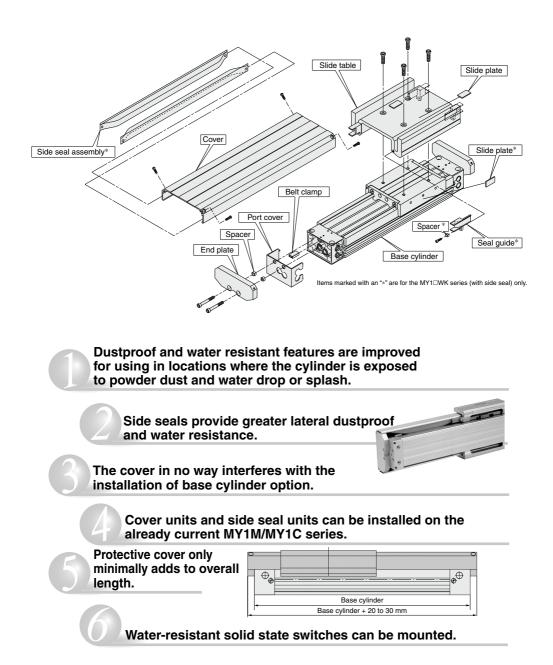
SMC

- 🗆

MY1B MY1H MY1B MY1M MY1C MY1H

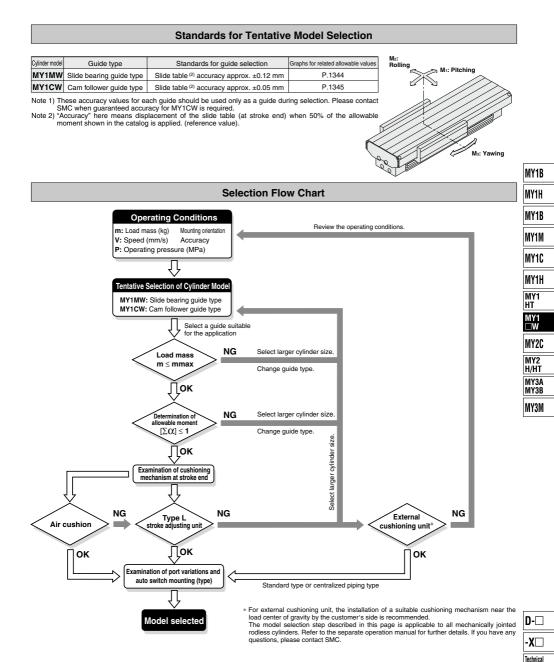
MY1 HT

MY1 MY2C MY2C H/HT MY3A MY3B





This section illustrates the standard model selection procedure to help you choose the most suitable cylinders from the MY1MW/MY1CW series for your application needs.

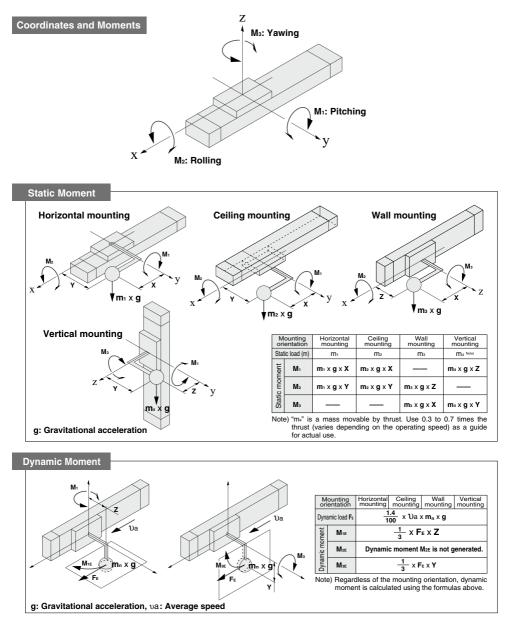


1341

Data

Types of Moment Applied to Rodless Cylinders

Multiple moments may be generated depending on the mounting orientation, load, and position of the center of gravity.



Maximum Allowable Moment/Maximum Load Mass

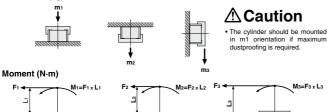
Marial	Bore size	Maximum a	allowable mo	ment (N·m)	Maximum load mass (kg)				
Model	(mm)	M1 M2 M3		Мз	m 1	m2	ms		
	16	6.0	3.0	1.0	18	7	2.1		
	20	10	5.2	1.7	26	10.4	3		
	25	15	9.0	2.4	38	15	4.5		
MY1MW	32	30	15	5.0	57	23	6.6		
	40	59	24	8.0	84	33	10		
	50	115	38	15	120	48	14		
	63	140	60	19	180	72	21		
	16	6.0	3.0	2.0	18	7	2.1		
	20	10	5.0	3.0	25	10	3		
	25	15	8.5	5.0	35	14	4.2		
MY1CW	32	30	14	10	49	21	6		
	40	60	23	20	68	30	8.2		
	50	115	35	35	93	42	11.5		
	63	150	50	50	130	60	16		

Maximum Allowable Moment

Select the moment from within the range of operating limits shown in the graphs. Note that the maximum allowable load value may sometimes be exceeded even within the operating limits shown in the graphs. Therefore, also check the allowable load for the selected conditions.

The above values are the maximum allowable values for moment and load. Refer to each graph regarding the maximum allowable moment and maximum allowable load for a particular piston speed.

Load mass (kg)



<Calculation of guide load factor>

1. Three factors must be considered when computing calculations for selection: (1) Maximum load mass, (2) Static moment, (3) Dynamic moment (at the time of impact with stopper).

To evaluate, use Da (average speed) for (1) and (2), and D (collision speed D = 1.4 Da) for (3). Calculate mmax for (1) from the maximum allowable load graph (mn, me, and ms), and Mmax for (2) and (3) from the maximum allowable moment graph (Mi, Me, and Ma).

Maximum Load Mass

Select the load from within the range of limits shown in the graphs. Note that the maximum allowable moment value may sometimes be exceeded even within the operating limits shown in the graphs. Therefore, also check the allowable moment for the selected conditions.

and (3) from the maximum a	llowable moment graph (M1, M2, a	and M3).	moment for the selected conditio
Sum of guide load factors $\Sigma \alpha$ =	Load mass [m] Maximum allowable load [mmax]	Static moment [M] Note 1) Allowable static moment [Mmax]	· Dynamic moment [Mɛ] Note 2) Allowable dynamic moment [Mɛmax] ≤ 1

Note 1) Moment caused by the load, etc., with cylinder in resting condition.

Note 2) Moment caused by the impact load equivalent at the stroke end (at the time of impact with stopper).

Note 3) Depending on the shape of the workpiece, multiple moments may occur. When this happens, the sum of the load factors (Σα) is the total of all such moments.

2. Reference formula [Dynamic moment at impact]

Use the following formulae to calculate dynamic moment when taking stopper impact into consideration.

q:

- m: Load mass (kg)
- F: Load (N)

U: Collision speed (mm/s)
 L1: Distance to the load's center of gravity (m)

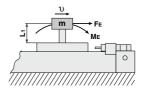
Gravitational acceleration (9.8 m/s²)

- FE: Load equivalent to impact (at impact with stopper) (N) ME: Dynamic moment (N·m)
- Ua: Average speed (mm/s)
- M: Static moment (N-m)

$$\begin{array}{lll} \upsilon = 1.4 \upsilon a \; (mm/s) & F_{E} = \; \frac{1.4}{100} \upsilon a \cdot g \cdot m^{Note\; 4)} \\ \vdots \; M_{E} = \; \frac{1}{2} \; F_{E} \cdot L_{1} \; = \; 0.05 \upsilon a \; m \; L_{1} \; (N \cdot m) \end{array}$$

Note 4) $\frac{1.4}{100}$ Ua is a dimensionless coefficient for calculating impact force.

- Note 5) Average load coefficient (= $\frac{1}{3}$): This coefficient is for averaging the maximum load moment at the time of stopper impact according to service life calculations.
- 3. For detailed selection procedures, refer to pages 1348 and 1349.





MY1B My1h

MY1B

MY1M

MY1C

MY1H

MY1 ht

MY1

ΠW

MY2C

MY2

H/HT

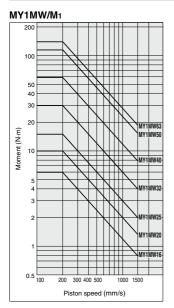
MY3A

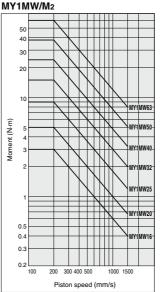
MY3B

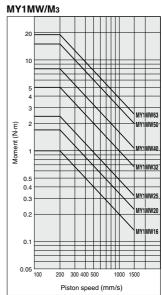
MY3M

Maximum Allowable Moment/Maximum Load Mass

Maximum Allowable Moment: MY1MW

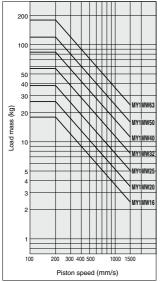


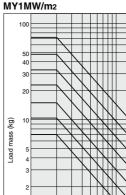




Maximum Load Mass: MY1MW







0.5

0.4

0.3 100



MY1MW/m3

MY.1MW63

MY1MW50

MY1MW40

MV1MW32

MY1MW25

MY1MW20

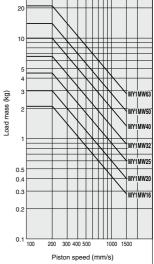
MY1MW16

1000 1500

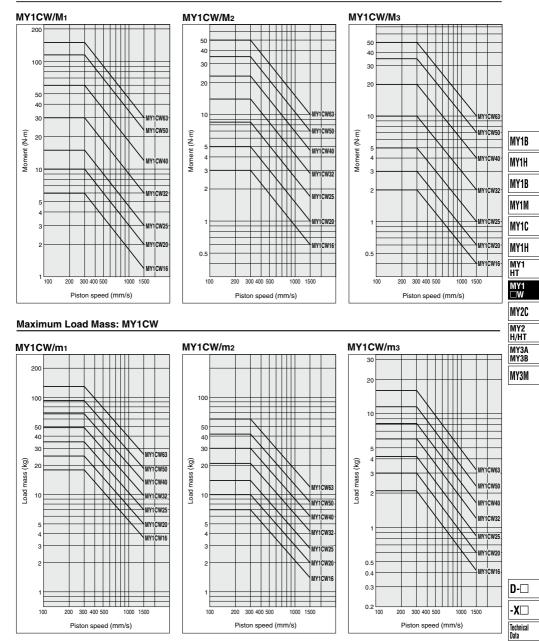
200 300 400 500

Piston speed (mm/s)

SMC



Maximum Allowable Moment: MY1CW





Cushion Capacity

Cushion Selection

<Air cushion>

Air cushions are a standard feature on mechanically jointed rodless cylinders.

The air cushion mechanism is incorporated to prevent excessive impact of the piston at the stroke end during high speed operation. The purpose of air cushion, thus, is not to decelerate the piston near the stroke end.

The ranges of load and speed that air cushions can absorb are within the air cushion limit lines shown in the graphs.

<Stroke adjusting unit with shock absorber>

Use this unit when operating with a load or speed exceeding the air cushion limit line, or when cushioning is required outside of the effective air cushion stroke range due to stroke adjustment.

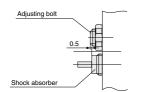
L unit

Use this unit when the cylinder stroke is outside of the effective air cushion range even if the load and speed are within the air cushion limit line, or when the cylinder is operated in a load and speed range above the air cushion limit line or below the L unit limit line.

A Caution

1. Refer to the figure below when using the adjusting bolt to perform stroke adjustment.

When the effective stroke of the shock absorber decreases as a result of stroke adjustment, the absorption capacity decreases dramatically. Secure the adjusting bolt at the position where it protrudes approximately 0.5 mm from the shock absorber.



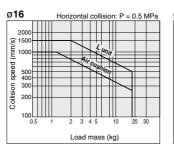
2. Do not use a shock absorber together with air cushion.

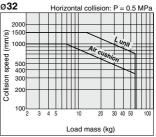
(mm)

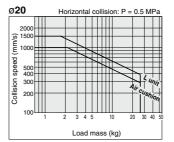
Air Cushion Stroke

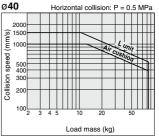
Bore size (mm)	Cushion stroke
16	12
20	15
25	15
32	19
40	24
50	30
63	37

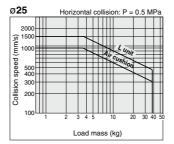


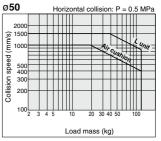


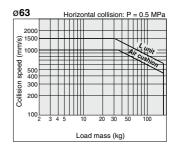












Model Selection MY1 W Series

Tightening Torque for Stroke Adjusting Unit Holding Bolts

	(N·m)	
Bore size (mm)	Unit	Tightening torque
16	A	0.7
10	L	0.7
20	А	1.8
20	L	1.0
25	А	3.5
25	L	3.5
32	A	5.8
52	L	5.6
40	A	13.8
40	L	13.0
50	A	13.8
50	L	13.0
63	A	27.5
03	L	27.5

Tightening Torque for Stroke Adjusting Unit Lock Plate Holding Bolts

Onit LOOK I late	noraning bo	(11-11)			
Bore size (mm)	Unit	Tightening torque			
25	L	1.2			
32	L	3.3			
40	L	3.3			

Calculation of Absorbed Energy for Stroke Adjusting Unit with Shock Absorber (N-m)

	Horizontal collision	Vertical (Downward)	Vertical (Upward)
Type of impact			
Kinetic energy E1		$\frac{1}{2}$ m· U^2	
Thrust energy E ₂	F∙s	F∙s + m·g·s	F∙s – m∙g∙s
Absorbed energy E		E1 + E2	

Symbol

U: Speed of impact object (m/s) m: Mass of impact object (kg)

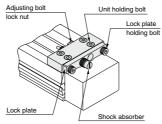
- F: Cylinder thrust (N)
- g: Gravitational acceleration (9.8 m/s²)
- : Shock absorber stroke (m)
- Note) The speed of the impact object is measured at the moment of impact with the shock absorber

APrecautions

A Caution

Use caution not to get your hands caught in the unit.

· When using a product with stroke adjusting unit, the space between the slide table (slider) and the stroke adjusting unit becomes narrow at the stroke end, causing a danger of hands getting caught. When operating with the protective cover removed (in the case of installation, etc.), be careful not to get your hands caught in the unit.



<Fastening of unit>

The unit can be secured by evenly tightening the four unit holding bolts.

A Caution

Do not operate with the stroke adjusting unit fixed in an intermediate position.

When the stroke adjusting unit is fixed in an intermediate position, slippage can occur depending on the amount of energy released at the time of an impact. In such cases, as a stroke adjustment unit with the spacer for intermediate securing is available, it is recommended to use it.

For other lengths, please consult with SMC (Refer to the "Tightening Torque for Stroke Adjusting Unit Holding Bolts" values in the chart at the upper left corner of this page.)

<Stroke adjustment with adjusting bolt>

Loosen the adjusting bolt lock nut, and adjust the stroke from the lock plate side using a hexagon wrench. Retighten the lock nut.

<Stroke adjustment with shock absorber>

Loosen the two lock plate holding bolts, turn the shock absorber and adjust the stroke. Then, uniformly tighten the lock plate holding bolts to secure the shock absorber

Avoid excessive tightening of the holding bolts (except for ø16, ø20, ø50, and ø63). (Refer to "Tightening Torque for Stroke Adjusting Unit Lock Plate Holding Bolts" above left)

Note)

Although the lock plate may slightly bend due to tightening of the lock plate holding bolt, this does not a affect the shock absorber and locking function.





MY1B

MY1H

MY1B

MY1M

MY1C

MY1H

MY1 нт MY1 ΠW MY2C

MY2

H/HT

MY3A

MY3B

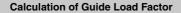
MY3M

1347 A

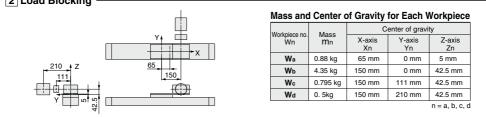


MY1 W Series Model Selection 2

This section illustrates the standard model selection procedure using the actual operating conditions as one of the examples.



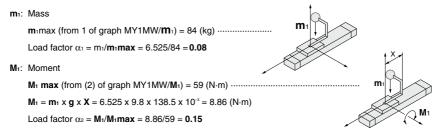
1 Operating Conditions --- Mounting Orientation -Cylinder ······MY1MW40-500 1. Horizontal 2. Wall Average operating speed Ua200 mm/s Wd: Workpiece (500 g) mounting mounting Mounting orientationHorizontal mounting P.1230 Wc: MHL2-16D1(795 g) Wa: Connection plate t = 10 (880 g) MY1MW40-500 3. Ceiling Vertical mounting mountina P.1280 P.1322 Wb: MGGLB25-200 (4.35 kg) For actual examples of calculation for each orientation, refer to the pages above. 2 Load Blocking



3 Composite Center of Gravity Calculation

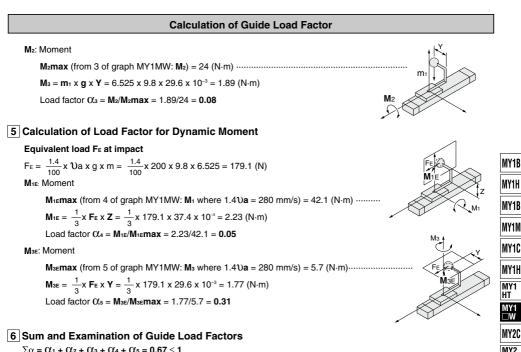
 $m_{1} = \Sigma mn$ = 0.88 + 4.35 + 0.795 + 0.5 = 6.525 kg $X = \frac{1}{m_{1}} x \Sigma (mn x x_{n})$ $= \frac{1}{6.525} (0.88 x 65 + 4.35 x 150 + 0.795 x 150 + 0.5 x 150) = 138.5 mm$ $Y = \frac{1}{m_{1}} x \Sigma (mn x y_{n})$ $= \frac{1}{6.525} (0.88 x 0 + 4.35 x 0 + 0.795 x 111 + 0.5 x 210) = 29.6 mm$ $Z = \frac{1}{m_{1}} x \Sigma (mn x z_{n})$ $= \frac{1}{6.525} (0.88 x 5 + 4.35 x 42.5 + 0.795 x 42.5 + 0.5 x 42.5) = 37.4 mm$

4 Calculation of Load Factor for Static Load



∕⊘SMC

Model Selection MY1 W Series



 $\Sigma \alpha = \alpha_1 + \alpha_2 + \alpha_3 + \alpha_4 + \alpha_5 = 0.67 \le 1$

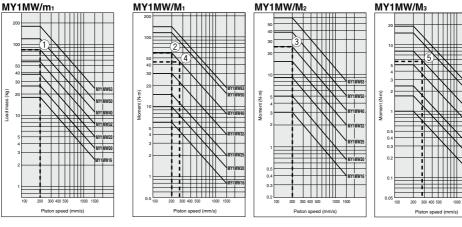
The above calculation is within the allowable value, and therefore the selected model can be used.

Select a shock absorber separately

In an actual calculation, when the total sum of guide load factors $\Sigma \alpha$ in the formula above is more than 1, consider either decreasing the speed, increasing the bore size, or changing the product series. This calculation can be easily made using the "SMC Pneumatics CAD System".

Load Mass

Allowable Moment



D-·XΓ Technica Data

H/HT

МҮЗА

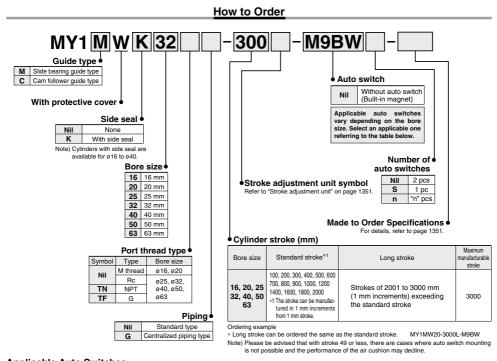
MY3B

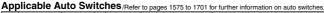
MY3M

1349

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

MY1 W Series





	0	FILL AND A	۲o.	140	L	.oad vo	Itage		Auto	switch m	odel		Lead	wire I	engtł	ו (m)	Pre-wired						
Туре	Special function	Electrical entry	ight	Wiring (Output)		C	AC	P	erpendicul	ar	In-	line	0.5	1	3	5	connector	Applica	ble load				
	Iditiction	entry	<u> </u>	<u> </u>	(Output)	L		AC	ø16, ø20	ø25 to ø40	ø50, ø63	ø16, ø20	ø25 to ø63	(Nil)	(M)	(L)	(Z)						
÷				3-wire (NPN)		5 V, 12 V		_	M9NV	-	M	9N	•		۲	\odot	0	IC circuit					
switch				3-wire (PNP)		5 V, 12 V		_	M9PV	_	M	9P			۲	0	0	IC CIrcuit					
				2-wire		12 V		_	M9BV	-	M	9B			•	0	0	—					
auto	Diagnostic			3-wire (NPN)		5 V, 12 V		—	M9NWV	—	M9	NW	٠		۲	\odot	0	IC circuit	Balay				
	indication (2-color	Grommet	Yes	3-wire (PNP)	24 V 3 V, 12	24 V 0 V, 12	24 V 💙	24 V	J V, 12 V		_	M9PWV	-	M9	PW	•		•	\circ	0	IC CITCUIL	PLC	
state	indicator)			2-wire		12 V						_	M9BWV	-	M9	BW	•		•	0	0	—	1 20
	Water			3-wire (NPN)							5 V 12 V	5 V 12 V	5 V. 12 V	5 V 12 V	5 V 12 V	/ 12 1/	—	M9NAV*1	-	M9N	IA*1	0	0
Solid	resistant (2-color			3-wire (PNP)		5 V, 12 V		_	M9PAV*1	_	M9F	PA*1	0	0	۲	0	0	IC CIrcuit					
Ō	indicator)			2-wire		12 V		—	M9BAV*1	-	M9E	BA *1	0	0	•	0	0	—					
iç a			Yes	3-wire (NPN equivalent)	—	5 V	_	_	_	-	A96	Z76	۲	-	۲	-	-	IC circuit	_				
Reed auto switch		Grommet	105	2-wire	24 V	12 V	100 V	_	_	-	A93	Z73*2	۲	•	۲	۲	-	_	Relay,				
at a			No	2-wire	24 V	12 V	100 V or less	—	_	-	A90	Z80	•	-	٠	-	-	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

* 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.

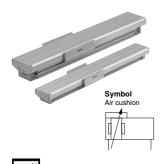
* Refer to page 1360 for details on other applicable auto switches than listed above.

* 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



Specifications

Boro si	ze (mm)	16	20	25	32	40	50	63		
Fluid	26 (1111)	10202332403003 Air								
Action		Double acting								
Operating	MY1MW	0.2 to 0.8 M	Pa		0.1	5 to 0.8 N	1Pa			
pressure rang	e MY1CW	0.15 to 0.8 N	1Pa		0.1	I to 0.8 M	Pa			
Proof press	sure	1.2 MPa								
Ambient and fl	uid temperature	5 to 60°C								
Cushion		Air cushion								
Lubrication	I			Non-	lube					
Stroke leng	th tolerance	1000 or less *1.8 1001 to 3000 *2.8	2700 or less ^{+1.8} , 2701 to 3000 ^{+2.8}							
	Front/Side port	M5 x 0.8		Rc	1/8	Rc 1/4	Rc	3/8		
port size	Bottom port	ø4		Ø	6	ø8	Ø	10		



-XC67 NBR rubber lining in dust seal band

Piston S	Speed
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			MY1B				
Bore size (mn	1)	16 to 63					
Without stroke adjustment u	init	100 to 1000 mm/s	MY1H				
Other last and last state and smalle	A unit	100 to 1000 mm/s ⁽¹⁾					
Stroke adjustment unit	L unit	100 to 1500 mm/s ⁽²⁾	MY1B				
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

																MY1H
Bore size (mm)		1	6	2	20	2	25	3	2	4	0	5	0	6	3	
Unit symbol		Α	L	Α	L	Α	L	A	L	Α	L	Α	L	Α	L	MY1
		1151	RB	1154	RB	1150	RB	1454	RB	1150	RB	1151	RB	1453	RB	HT
Configuration Shock absorber m	odel	With adjustment bolt	0806 + with adjustment bolt	With adjustment bolt	0806 + adjustment bolt	With adjustment bolt	1007 + with adjustment bolt	With adjustment bolt	1412 + with adjustment bolt	With adjustment bolt	1412 + with adjustment bolt	With adjustment bolt	2015 + with adjustment bolt	With adjustment bolt	2015 with adjustment bolt	MY1 □W
Stroke adjustment	Without spacer	0 to	-5.6	0 to) –6	0 to -	-11.5	0 to	-12	0 to	-16	0 to	-20	0 to	-25	MY2C
range by intermediate	With short spacer	-5.6 to) –11.2	-6 to	o –12	-11.5	to –23	-12 t	o –24	-16 t	o –32	-20 t	o –40	-25 t	o –50	
fixing spacer (mm)	With long spacer	-11.2 t	o –16.8	-12 t	o –18	-23 to	-34.5	-24 t	o –36	-32 t	o –48	-40 t	o –60	-50 t	o –75	MY2
* Stroke adjustment rar	nge is applicable fo	or one side	e when mo	ounted on	a cylinder											H/HT

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

Stroke Adjustment Unit Symbol

	_			Riç	ght side s	troke adj	ustment u	unit	
			Without	A: With	adjustm	ent bolt	L: With lov + Adjustm	v load shocl ent bolt	k absorber
			unit		With short spacer	With long spacer		With short spacer	With long spacer
	Wit	Nil	SA	SA6	SA7	SL	SL6	SL7	
ni ke	A: With adjustment bolt		AS	Α	AA6	AA7	AL	AL6	AL7
stroke nt unit		With short spacer	A6S	A6A	A6	A6A7	A6L	A6L6	A6L7
			A7S	A7A	A7A6	A7	A7L	A7L6	A7L7
Left side adjustme	L: With low lo	ad shock absorber +	LS	LA	LA6	LA7	L	LL6	LL7
Lefi	Adjustment bolt	With short spacer	L6S	L6A	L6A6	L6A7	L6L	L6	L6L7
	DOIL	With long spacer	L7S	L7A	L7A6	L7A7	L7L	L7L6	L7

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

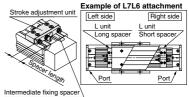
Shock Absorbers for L Unit

Туре	Stroke adjustment			Bore siz	ze (mr	n)		
туре	unit	16	20	25	32	40	50	63
Standard (Shock absorber/RB series)	L	RBC	806	RB1007	RB1	412	RB2	015
Shock absorber/soft type RJ series mounted (-XB22)	L	RJ08	306H	RJ1007H	RJ14	12H	-	-

* The shock absorber service life is different from that of the MY1DW cylinder depending on operating conditions. Refer to the RB Series Specific Product Precautions for the replacement period.

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

Stroke adjustment unit mounting diagram



Shock Absorber Specifications

Mo	del	RB 0806	RB 1007	RB 1412	RB 2015
Max. energy a	bsorption (J)	2.9	5.9	19.6	58.8
Stroke abso	rption (mm)	6	7	12	15
Max. collision	speed (mm/s)		15	00	
Max. operating free	quency (cycle/min)	80	70	45	25
Spring	Extended	1.96	4.22	6.86	8.34
force (N)	Retracted	4.22	6.86	15.98	20.50
Operating tempe	rature range (°C)		5 to	60	

* The shock absorber service life is different from that of the MY1DW cylinder depending on operating conditions. Refer to the RB Series Specific Product Precautions for the replacement period.

D--X 🗆 Technical Data

MY1M

MY1C

MY3A

MY3B MY3M

1351 ©

Theoretical Output

								(N)
Bore size	Piston area		0	perating	g pressi	ure (MF	'a)	
(mm)	(mm ²)	0.2	0.3	0.4	0.5	0.6	0.7	0.8
16	200	40	60	80	100	120	140	160
20	314	314 62		125	157	188	219	251
25	490	98	147	196	245	294	343	392
32	804	161	241	322	402	483	563	643
40	1256	251	377	502	628	754	879	1005
50	1962	392	588	784	981	1177	1373	1569
63	3115	623	934	1246	1557	1869	2180	2492

Weight

									(kg)
Bore		MY1MW	1		MY1CW	I	Side support bracket weight (per set)		oke ient unit per unit)
(mm)	Basic weight	Additional weight per each 50 mm of stroke	Weight of moving parts	Basic weight	Additional weight per each 50 mm of stroke	Weight of moving parts	Type A and B		L unit weight
16	1.25			1.25	0.16	0.57	0.01	0.03	0.04
20	1.90			1.85	0.18	0.78	0.02	0.04	0.05
25	2.56	0.28	1.00	2.50	0.28	1.02	0.02	0.07	0.11
32	4.75	0.43	1.71	4.62	0.42	1.76	0.04	0.14	0.23
40	7.79	0.61	2.56	7.51	0.57	2.64	0.08	0.25	0.34
50	13.53	0.83	5.19	13.61	0.82	5.27	0.08	0.36	0.51
63	21.84	1.18	8.23	21.94	1.17	8.50	0.17	0.68	0.83

Calculation: (Example) MY1MW25-300A

Basic weight 2.56 kg

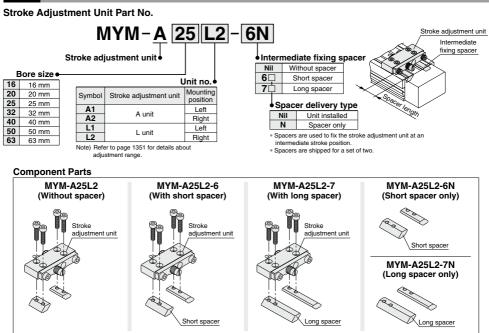
Cylinder stroke ------ 300 stroke

Additional weight 0.28/50 stroke

 $2.56 + 0.28 \times 300/50 + 0.07 \times 2 \cong 4.38 \text{ kg}$

Weight of A unit 0.07 kg

Option



Side Support Part No.

Bore size (mm)	16	20	25	32	40	50	63
Side support A	MY-S16A	MY-S20A	MY-S25A	MY-S32A	MY-S	MY-S63A	
Side support B	MY-S16B	MY-S20B	MY-S25B	MY-S32B	MY-S	S40B	MY-S63B

For details about dimensions, etc., refer to page 1358.

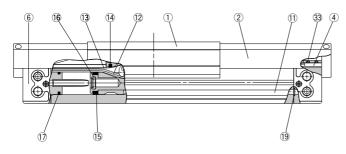
A set of side supports consists of a left support and a right support.

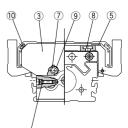


Mechanically Jointed Rodless Cylinder With Protective Cover MY1 W Series

Construction

MY1DW





MY1B MY1H

MY1B MY1M

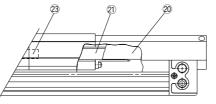
MY1C

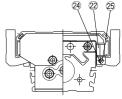
MY1H

MY1 Ht

(18

MY1DWK with side seal





nnonent Deute

Com	ipone	nt Parts										MY1
No.		Description	Material	Note	ø 16	ø 20	ø 25	ø 32	ø 40	ø 50	ø63	ΰw
1		Slide table	Aluminum alloy	Hard anodized								
2]	Cover	Aluminum alloy	Hard anodized								MY2C
3		End plate	Aluminum alloy	Hard anodized								-
4		Belt clamp	Special resin									MY2
5	Cover	Slide plate	Special resin		MYMW-16-	MYMW-20-	MYMW-25-	MYMW-32-	MYMW-40-	MYMW-50-	MYMW-63-	H/HT
6	unit	Port cover	Special resin	(ø25 to ø40)	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	Stroke	MY3A
7		Spacer	Stainless steel	(ø25 to ø40)								MY3B
8		Hexagon socket button head screw	Chromium molybdenum steel	Chromated								
9		Hexagon socket head cap screw	Chromium molybdenum steel	Chromated								MY3M
10		Hexagon socket button head screw	Chromium molybdenum steel	Chromated								
11	Rodles	s cylinder	—	MY1M/MY1C	_	—	_	—	—	—	_	
21		Seal guide A	Special resin									
22	Side	Seal guide B	Special resin									
23	seal	Slide plate	Special resin		MYMK-16-A	MYMK-16-A	MYMK-25-A	MYMK-25-A	MYMK-25-A	_	_	
24	unit	Spacer	Stainless steel									
25		Hexagon socket head cap screw	Chromium molybdenum steel	Chromated								

Replacement Parts: Seal Kit

						1			
No.	Description	Qty.	ø16	ø 20	ø 25	ø 32	ø 40	ø 50	ø 63
12	Seal belt	1	MY16-16C-Stroke	MY20-16C-Stroke	MY25-16C-Stroke	MY32-16C-Stroke	MY40-16C-Stroke	MY50-16C-Stroke	MY63-16A-Stroke
13	Dust seal band Note)	1	MY16-16B-Stroke	MY20-16B-Stroke	MY25-16B-Stroke	MY32-16B-Stroke	MY40-16B-Stroke	MY50-16B-Stroke	MY63-16B-Stroke
10	0 ring	_	KA00309	KA00311	KA00311	KA00320	KA00402	KA00777	KA00777
18	O-ring	2	(ø4 x ø1.8 x ø1.1)	(ø5.1 x ø3 x ø1.05)	(ø5.1 x ø3 x ø1.05)	(ø7.15 x ø3.75 x ø1.7)	(ø8.3 x ø4.5 x ø1.9)	—	—
20	Side seal assembly	2	MYMK-16-Stroke	MYMK-20-Stroke	MYMK-25-Stroke	MYMK-32-Stroke	MYMK-40-Stroke	—	—
14	Scraper	2							
15	Piston seal	2							
16	Cushion seal	2	MY1M16-PS	MY1M20-PS	MY1M25-PS	MY1M32-PS	MY1M40-PS	MY1M50-PS	MY1M63-PS
17	Tube gasket	2							
19	O-ring	4							

Note) Two kinds of dust seal bands are available. Verify the type to use, since the part number varies depending on the treatment of the hexagon socket head set screw 3 (Refer to the Construction of MY1M on pages 1268 and 1269.). A Black zinc chromated \rightarrow MY \square -16B-Stroke B Chromated \rightarrow MY \square -16BW-Stroke

SMC

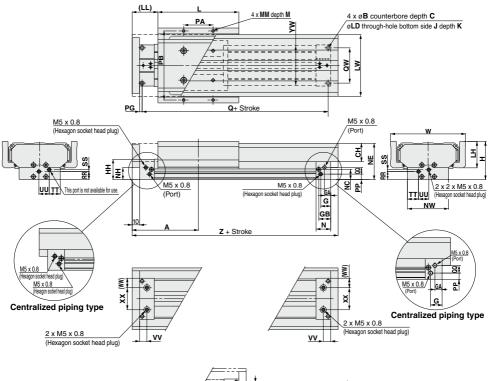
* Seal kit includes (4, (5, (6, (7) and (9). Order the seal kit based on each bore size. Seal kit includes a grease pack (10 g).

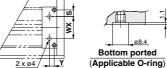
When (2) and (3) are shipped as single units, a grease pack (10 g per 1000 strokes) is included.

Order with the following part number when only the grease pack is needed. GR-S-010 (10 g), GR-S-020 (20 g)



Dimensions: ø16, ø20





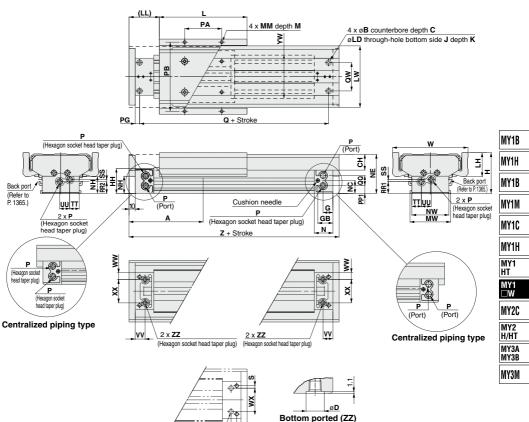
Bore size (mm)	Α	В	С	СН	G	GA	GB	Н	HH	J	K	L	LD	LH	LL	LW	Μ	MM	Ν	NC	NE	NH
16	90	6	3.5	25	13.5	8.5	16.2	52	27.7	M5 x 0.	3 10	110	3.6	38	35	84	6	M4 x 0.7	20	14	49.5	16.5
20	110	7.5	4.5	26	12.5	12.5	20	58	33.7	M6 x 1	12	130	4.8	39	45	88	7.5	M5 x 0.8	25	17	55.5	21.7
Bore size (mm)	NW	PA	PB	PG	PP	Q	QQ	QW	RR	SS	TT	טט ו	VV	w v	۷W ۱	w	Z	XX				
16	56	40	94	3.5	7.5	153	9	48	11	2.5	15	14 1	10 1	102	13	54	180	30				
10	00	40	1 34	0.0	1.0	100		40		2.5	13	14 1		102	10	J-4	100	30				

Hole Size for Centralized Piping on the Bottom (Mounting side should be machined to these dimensions.)

(Mounting side	shoul	d be n	nachin	ed to these dime	nsi
Bore size (mm)	S	WX	Y	Applicable O-ring	
16	9	30	6.5	C6	
20	6.5	32	8	C6	

Mechanically Jointed Rodless Cylinder With Protective Cover MY1 W Series

Dimensions: ø25, ø32, ø40



(Applicable O-ring)

Bore size (mm)	Α	В	С	СН	G	GB	н	HH	J	ľ	(LL	D	LH	LL	LW	M	M	М	MW	Ν	NC	NE	NH
25	120	9	5.5	25.7	17	24.5	66	40.5	M6 x	1 9	l.5 1	42 5	5.6	38.7	49	100	10	M5 :	x 0.8	66	30	21	64	28
32	150	11	6.5	31.5	19	30	82	50	M8 x 1.	25 16	i 1	72 6	6.8	44.2	64	122	13	M6	x 1	80	37	26	80	37
40	180	14	8.5	34.8	23	36.5	98	63.5	M10 x ⁻	1.5 15	2	02 8	8.6	47.2	79	138	13	M6	x 1	96	45	32	96	48
Bore size (mm)	NW	Р	PA	PB	PG	PP1	PP2	Q	QQ	QW	RR1	RR2	S	SТ	тΙ	IU \	/V	W	ww	YW	Z	ZZ	XX	
25	60	Rc1/8	60	112	7	12.7	12.7	206	16	46	18.9	17.9	5.	1 15	5.5 1	6	16	122	11	70	240	Rc1/16	38	
32	74	Rc1/8	80	134	8	15.5	18.5	264	16	60	22	24	4	21	1	6	19	144	13	88	300	Rc1/16	6 48	
40	94	Rc1/4	100	150	9	17.5	20	322	26	72	25.5	29	9	26	3 2	21 2	23	160	20	104	360	Rc1/8	54	_

Y

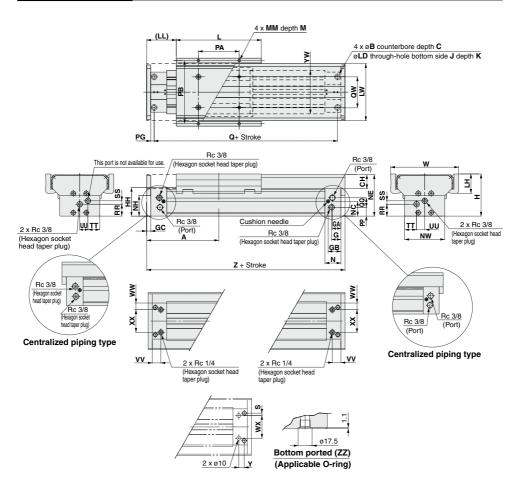
2 x ø**d**

Hole Size for Centralized Piping on the Bottom

(iviounting side	(viounting side should be machined to these dimensions.)										
Bore size (mm)	D	d	WX	Y	S	Applicable O-ring					
25	11.4	6	38	9	4	C9					
32	11.4	6	48	11	6	C9					
40	13.4	8	54	14	9	C11.2					

D-🗆
-X□
Technical Data

Dimensions: ø50, ø63



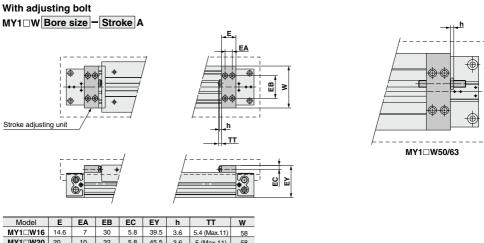
Bore size (mm)	Α	В	С	СН	G	GA	GB	GC	н	HH	J	K	. L	. L	DI	.H	LL	LW	/ M	MM	Ν	NC	NE
50	212	17	10.5	41.5	27	25	37.5	12	124	83.5	M14 x 2	2 28	3 25	i0 ·	1	57	87	168	3 15	M8 x 1.25	47	44	122
63	245	19	12.5	47	29.5	27.5	39.5	15	149	105	M16 x 2	2 32	2 29	0 .	4	65	100	200) 16	M10 x 1.5	50	60	147
Bore size (mm)	NH	NW	PA	PB	PG	PP	Q	QQ	QW	RR	SS	TT	UU	vv	W	W	N N	/W	Z	XX			
50	60	118	120	186	10	26	380	28	90	35	10	35	24	28	200	2	2 1	28	424	74			
63	70	142	140	220	12	42	436	30	110	49	13	43	28	30	236	2	5 1	152	490	92			

Hole Size for Centralized Piping on the Bottom (Mounting side should be machined to these dimensions.)

Bore size (mm)	S	WX	Y	Applicable O-ring
50	8	74	18	C15
63	9	92	18	C15

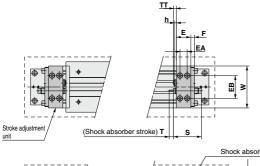
Mechanically Jointed Rodless Cylinder With Protective Cover MY1 W Series

Stroke Adjusting Unit

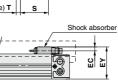


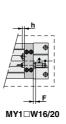
MY1□W16	14.6	7	30	5.8	39.5	3.6	5.4 (Max.11)	58
MY1 UW20	20	10	32	5.8	45.5	3.6	5 (Max.11)	58
MY1□W25	24	12	38	6.5	53.5	3.5	5 (Max.16.5)	70
MY1DW32	29	14	50	8.5	67	4.5	8 (Max.20)	88
MY1□W40	35	17	57	10	83	4.5	9 (Max.25)	104
MY1DW50	40	20	66	14	106	5.5	13 (Max.33)	128
MY1DW63	52	26	77	14	129	5.5	13 (Max.38)	152

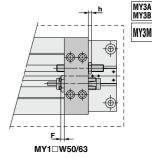
With low load shock absorber + Adjusting bolt MY1 UW Bore size - Stroke L











												(mm)
Model	E	EA	EB	EC	EY	F	h	S	Т	TT	w	Shock absorber model
MY1□W16	14.6	7	30	5.8	39.5	4	3.6	40.8	6	5.4 (Max.11)	58	RB0806
MY1 W20	20	10	32	5.8	45.5	4	3.6	40.8	6	5 (Max.11)	58	RB0806
MY1 W25	24	12	38	6.5	53.5	6	3.5	46.7	7	5 (Max.16.5)	70	RB1007
MY1□W32	29	14	50	8.5	67	6	4.5	67.3	12	8 (Max.20)	88	RB1412
MY1□W40	35	17	57	10	83	6	4.5	67.3	12	9 (Max.25)	104	RB1412
MY1DW50	40	20	66	14	106	6	5.5	73.2	15	13 (Max.33)	128	RB2015
MY1DW63	52	26	77	14	129	6	5.5	73.2	15	13 (Max.38)	152	RB2015



MY1B MY1H

MY1B MY1M

MY1C MY1H MY1 Ht MY1 □W

MY2C

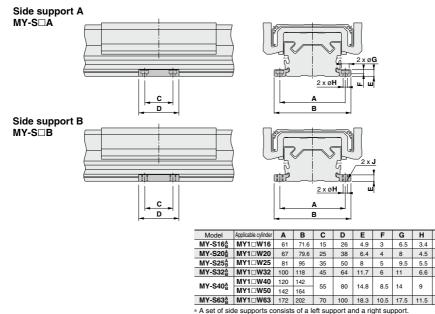
MY2 H/HT

MY3M



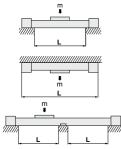


Side Support



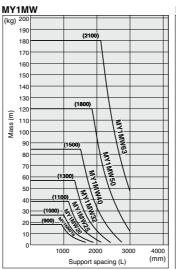
Guide for Side Support Application

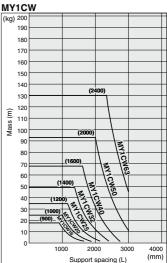
For long stroke operation, the cylinder tube may be deflected depending on its own weight and the load. In such a case, use a side support in the middle section. The spacing (L) of the support must be no more than the values shown in the graph on the right.



ACaution

- If the cylinder mounting surfaces are not measured accurately, using a side support may cause poor operation. Therefore, be sure to level the cylinder tube when mounting. Also, for long stroke operation involving vibration and impact, use of a side support is recommended even if the spacing value is within the allowable limits shown in the graph.
- 2. Support brackets are not for mounting; use them solely for providing support.





J

M4 x 0.7

M5 x 0.8

M6 x 1

M10 x 1.5

M12 x 1.75

M8 x 1.25

SMC

MY1 UW Series Auto Switch Mounting 1

Proper Auto Switch Mounting Position (Detection at stroke end)

MY1MW (Slide bearing guide type) ø16, ø20



ø25, ø32, ø40, ø50, ø63



(mm)

Proper Auto Switch Mounting Position

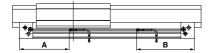
Bore size (mm)			D-M9_V D-M9_WV D-M9_AV		D-A	.9	D-Y69[D-Y7□]/Y7PV WV	D-Z7□/Z80 D-Y59□/Y7P D-Y7□W D-Y7BA		
			Α	в	A	В	Α	В	Α	В	
16	74	86	_	_	70	90	_	-	-	-	
20	94	106	_	_	90	110	_	_	_	-	
25	144.5	75.5	144.5	75.5	-	-	139.5	80.5	139.5	80.5	
32	189.5	90.5	189.5	90.5	-	_	184.5	95.5	184.5	95.5	
40	234.5	105.5	234.5	105.5	-	_	229.5	110.5	229.5	110.5	
50	283.5	116.5	-	-	-	-	-	-	278.5	121.5	
63	328.5	131.5	_	_	_	_	_	_	323.5	136.5	

Note 1) Perpendicular electrical entry type and D-Y7BA cannot be mounted on ø16, 20, 50 and 63. Consider using the in-line electrical entry type. Note 2) Adjust the auto switch after confirming the operating conditions in the actual setting.

MY1CW (Cam follower guide type) ø16, ø20

ø25, ø32, ø40, ø50, ø63

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Proper Auto Switch Mounting Position

Bore size (mm)	D-M9		D-M9 W		D-M9⊟V D-M9⊒WV D-M9⊒AV		D-A	.9	D-Y69[D-Y7□]/Y7PV WV	D-Z7□/Z80 D-Y59□/Y7P D-Y7□W D-Y7BA		
	Α	В	Α	В	Α	В	Α	в	Α	В			
16	74	86	-	-	70	90	-	-	-	_			
20	94	106	-	-	90	110	—	-	-	-			
25	102	118	102	118	-	-	97	123	97	123			
32	132	148	132	148	_	—	127	153	127	153			
40	162.5	177.5	162.5	177.5	-	_	157.5	182.5	157.5	182.5			
50	283.5	116.5	—	—	—	—	—	—	278.5	121.5			
63	328.5	131.5	—	—	-	—	—	-	323.5	136.5			

Note 1) Perpendicular electrical entry type and D-Y7BA cannot be mounted on ø16, 20, 50 and 63. Consider using the in-line electrical entry type. Note 2) Adjust the auto switch after confirming the operating conditions in the actual setting.



MY1M MY1C MY1H MY1 HT MY1 MY1 MY2C MY2C

MY1B My1h My1b

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(mm)

MY1 W Series **Auto Switch Mounting 2**

(mm)

Operating range

Note) Since the operating range is provided as a guideline including hysteresis, it cannot be guaranteed. (Assuming approximately ±30% dispersion.) It may vary substantially depending on an ambient environment.

MY1MW (Slide bearing guide type)

Auto switch model			E	Bore siz	е		
Auto switch model	16	20	25	32	40	50	63
D-A9	11	7.5	-	_	-	-	-
D-M9_/M9_V D-M9_W/M9_WV D-M9_A/M9_AV	7.5	7.5	8.5	8.5	9.5	7	6
D-Z7[]/Z80	_	_	12	12	12	11.5	11.5
D-Y59]/Y69] D-Y7P/Y7PV D-Y7]W/Y7]WV D-Y7BA			5	5	5	5.5	5.5

Perpendicular electrical entry type and D-Y7BAL cannot be mounted on ø16, 20, 50 and 63. Consider using the in-line electrical entry type.

Switch Mounting Bracket: Part No.

Auto switch model	Bore size (mm)							
Auto switch model	ø16, ø20	ø25 to ø63						
D-M9_/M9_V D-M9_W/M9_WV D-M9_A/M9_AV	_	BMG2-012						

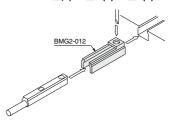
MY1CW (Cam follower quide type)

			J · · ·	· · · · · ·	· /		(
A	Bore size									
Auto switch model	16	20	25	32	40	50	63			
D-A9	11	7.5	-	-	-	-	_			
D-M9_/M9_V D-M9_W/M9_WV D-M9_A/M9_AV	7.5	7.5	7	8	8.5	7	6			
D-Z7[]/Z80	-	-	12	12	12	11.5	11.5			
D-Y59 _ /Y69 _ D-Y7P/Y7PV D-Y7 _ W/Y7 _ WV D-Y7BA	_	_	5	5	5	5.5	5.5			

(mm)

Perpendicular electrical entry type and D-Y7BAL cannot be mounted on ø16, 20, 50 and 63. Consider using the in-line electrical entry type.

ø25 to ø63: M9 (V)/M9 W(V)/M9 A(V)



	d in How to Order, the follow tions, refer to pages 157		able. Refer to pages 1263 an	d 1371 for details	
Туре	Model	Electrical entry (Fetching direction)	Features	Applicable bore size	
	D-Y69A, Y69B, Y7PV	Grommet (Perpendicular)	—	ø25 to ø40	
Solid state auto switch	D-Y7NWV, Y7PWV, Y7BWV	Grommet (Perpendicular)	Diagnostic indication (2-color indicator)	Ø25 to Ø40	
Solid State auto Switch	D-Y59A, Y59B, Y7P	Crommet (In Jine)	—	ø25 to ø63	
	D-Y7NW, Y7PW, Y7BW	Grommet (In-line)	Diagnostic indication (2-color indicator)	Ø25 to Ø63	

* Normally closed (NC = b contact) solid state auto switches (D-F9G/F9H/Y7G/Y7H types) are also available. Refer to pages 1593 and 1595 for details.

Mounting of Auto Switch & Installation of Lead Wire Cover (Ø50, Ø63)

▲ Caution

Be sure to install a lead wire cover on the auto switches for size \wp 50 and \wp 63 cylinders.

Install a lead wire cover following the procedures provided below to prevent the lead wire from interfering with the slider.

Lead wire cover is packaged together with size ø50 and ø63 cylinders equipped with auto switches.

For ordering the lead wire cover separately, use the following part number: $MYM63GAR6386\text{-}1640\ (Length: 2\ m)$

1. Auto switch mounting position

Up to 4 auto switches can be mounted on one side of the cylinder (total of 8 switches on both sides).

When multiple auto switches are used, be sure to use the lead wire groove and pull the lead wires out from the edge of the cylinder. (Bold lines in Fig. (1) indicate lead wires.)

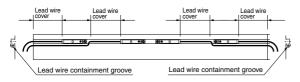


Fig. (1) Auto switch mounting position

2. How to mount auto switch/install lead wire cover

- Insert and slide in the auto switch from the side of the cylinder and secure it with the screw provided. (Refer to Fig. (2).)
- Cut the lead wire cover to the desired length using a cutter or tube cutter. (Refer to Fig. (1).)
- First place the lead wires into the lead wire cover. Then, install a lead wire cover onto a cylinder body. (Refer to Fig. (3).)
- Make sure that the lead wires do not interfere with the slide table at any stroke range.

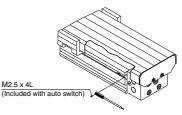


Fig. (2) Auto switch mounting

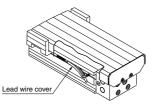


Fig. (3) Installation of lead wire cover

@SMC

MY1B
MY1H
MY1B
MY1M
MY1C
MY1H
MY1 HT
MY1 □W
MY2C
MY2 H/HT
MY3A MY3B
MY3M





Be sure to read this before handling the products. Refer to back page 50 for Safety Instructions and pages 3 to 12 for Actuator and Auto Switch Precautions.

Selection

ACaution

- 1. When using a cylinder with long strokes, implement an intermediate support.
 - When using a cylinder with long strokes, implement an intermediate support to prevent the tube from sagging and being deflected by vibration or an external load.
 Refer to the Guide for Side Support Application on page

1358.

- 2. For intermediate stops, use a dual-side pressure control circuit.
 - Since the mechanically jointed rodless cylinders have a unique seal structure, slight external leakage may occur. Controlling intermediate stops with a 3 position valve cannot hold the stopping position of the slide table (slider). The speed at the restarting state also may not be controllable. Use the dual-side pressure control circuit with a PABconnected 3 position valve for intermediate stops.

3. Constant speed

 Since the mechanically jointed rodless cylinders have a unique seal structure, a slight speed change may occur. For applications that require constant speed, select an applicable equipment for the level of demand.

4. Load factor of 0.5 or less

 When the load factor is high against the cylinder output, it may adversely affect the cylinder (condensation, etc.) and cause malfunctions. Select a cylinder to make the load factor less than 0.5. (Mainly when using an external guide)

5. Cautions on less frequent operation

- When the cylinder is used extremely infrequently, operation may be interrupted in order for anchoring and a change lubrication to be performed or service life may be reduced.
- 6. Consider uncalculated loads such as piping, cableveyor, etc., when selecting a load moment
 - Calculation does not include the external acting force of piping, cableveyor, etc. Select load factors taking into account the external acting force of piping, cableveyor, etc.

7. Accuracy

 The mechanical jointed rodless cylinder does not guarantee traveling parallelism. When accuracy in traveling parallelism and a middle position of stroke is required, please consult with SMC.

Mounting

A Caution

1. To obtain the best results from the cover, horizontal mounting is recommended.

 With horizontal mounting (shown below), the entry of dirt and dust from the bottom of the cover is much less compared to other mounting orientations, making it much more efficient.

Horizontal mounting	⊕.	 	•⊕	
Concerns to the second second	C BARRADO AND		10000	

Mounting

▲ Caution

When the cylinder is mounted from the top side or when strokes are to be adjusted by installing a stroke adjusting unit, the protective cover must be removed for these purposes.

· For detailed assembly step, refer to page 1364.

3. Do not apply a strong impact or moment on the slide table (slider).

 Since the slide table (slider) is supported by precision bearings, do not subject it to strong impact or excessive moment when mounting workpieces.

 When connecting to a load which has an external guide mechanism, use a discrepancy absorption mechanism.

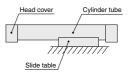
 A mechanically jointed rodless cylinder can be used with a direct load within the allowable range for each guide type, however, align carefully when connecting to a load with an external guide mechanism.

5. Do not mount cylinders as they are twisted.

 When mounting, be sure for a cylinder tube not to be twisted. The flatness of the mounting surface is not appropriate, the cylinder tube is twisted, which may cause air leakage due to the detachment of a seal belt, damage a dust seal band, and cause malfunctions.

6. Do not mount a slide table on the fixed equipment surface.

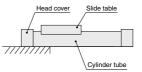
• It may cause damage or malfunctions since an excessive load is applied to the bearing.



Mounting with a slide table (slider)

7. Consult SMC when mounting in a cantilevered way.

• Since the cylinder body deflects, it may cause malfunctions. Please consult with SMC when using it this way.



Mounting in a cantilevered way



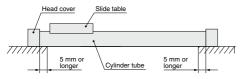
Be sure to read this before handling the products.

Refer to back page 50 for Safety Instructions and pages 3 to 12 for Actuator and Auto Switch Precautions.

Mounting

▲Caution

8. Fixed parts of the cylinder on both ends must have at least 5 mm of contact between where the bottom of the cylinder tube and the equipment surface.



9. Do not generate negative pressure in the cylinder tube.

 Take precautions under operating conditions in which negative pressure is generated inside the cylinder by external forces or inertial forces. Air leakage may occur due to separation of the seal belt. Do not generate negative pressure in the cylinder by forcibly moving it with an external force during the trial operation or dropping it with self-weight under the non-pressure state, etc. When the negative pressure is generated, slowly move the cylinder by hand and move the stroke back and forth. (When using with a stroke adjustment unit, please either remove the unit or adjust the stroke to the full stroke.) After doing so, if air leakage still occurs, please consult with SMC.

10. Accuracy

 The mechanical jointed rodless cylinder does not guarantee traveling parallelism. When accuracy in traveling parallelism and a middle position of stroke is required, consult with SMC.

11. Cautions on less frequent operation

- When the cylinder is used extremely infrequently, operation may be interrupted in order for anchoring and a change lubrication to be performed or service life may be reduced.
- 12. Do not unnecessarily alter the guide adjustment setting.
 - The adjustment of the guide is preset and does not require readjustment under normal operating conditions. Therefore, do not unnecessarily alter the guide adjustment setting. However, series other than the MY1□W series can be readjusted and their bearings can be replaced. To perform these operations, refer to the bearing replacement procedure given in the operation manual.

13. Do not get your hands caught during cylinder operation.

 For the cylinder with a stroke adjusting unit, the space between the slide table and stroke adjusting unit is very small, and your hands may get caught. When operating without a protective cover, be careful not to get your hands caught.

Operating Environment

A Caution

1. Because of floating particles such as paper dust and coolant mist that may enter the inside of the cover.

 Since there is a gap between the bottom of the cover and cylinder tube, take precautions when operating cylinders in environments where there is exposure to excessive amount of floating particles, water/oil splash, or chip spattering. If they enter inside the cover, malfunction may occur.

- 2. Carry out cleaning and grease application suitable for the operating environment.
 - Carry out cleaning regularly when using in an operating environment in which the product is likely to get dirty. After cleaning, be sure to apply grease to the top side of the cylinder tube and the rotating part of the dust seal band. Apply grease to these parts regularly even if not after cleaning. Please consult with SMC for the cleaning of the slide table (slider) interior and grease application.

Service Life and Replacement Period of Shock Absorber

A Caution

@SMC

- 1. Allowable operating cycle under the specifications set in this catalog is shown below.
 - 1.2 million times RB08
 - 2 million times RB10 $\Box\Box$ to RB2725
 - Note) Specified service life (suitable replacement period) is the value at room temperature (20 to 25°C). The period may vary depending on the temperature and other conditions. In some cases the absorber may need to be replaced before the allowable operating cycle above.

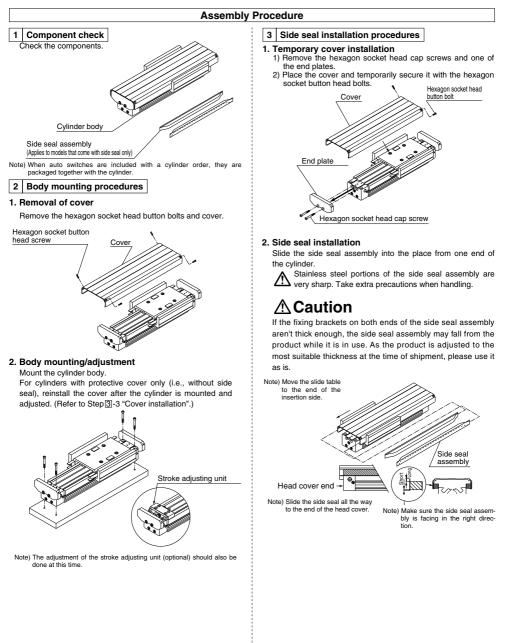
MY1B MY1H MY1B MY1M MY1C MY1H MY1 нт MY1 $\square W$ MY2C MY2 H/HT MY3A MY3B MY3M





Be sure to read this before handling the products.

Refer to back page 50 for Safety Instructions and pages 3 to 12 for Actuator and Auto Switch Precautions.



@SMC



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