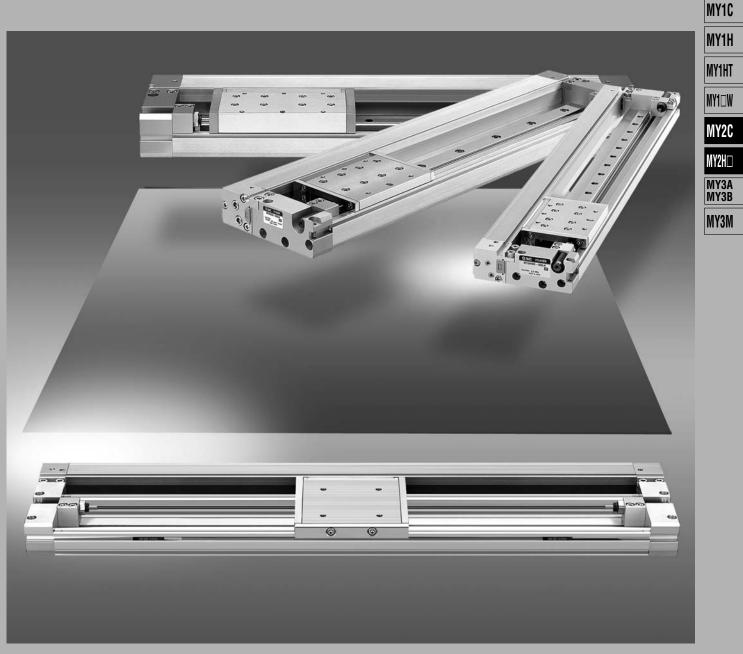
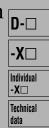
Mechanically Jointed Rodless Cylinder

Series MY2 ø16, ø25, ø40



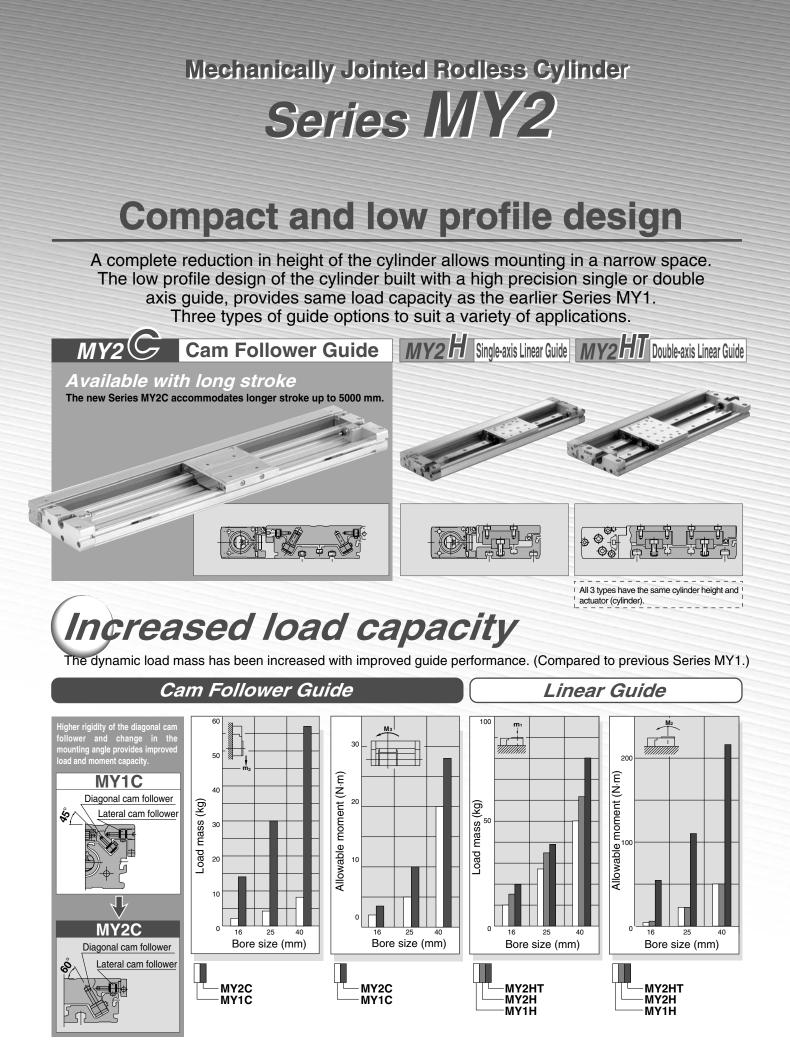
Compact and low profile design D-



MY1B

MY1M

SMC



SMC

Height reduction by 30% (Compared to previous Series MY1.)	Series MY2C	ø16	ø25	ø40	
Low profile achieved by placing the guide unit and cylinder body next to one another. (dimension reduced by 12 mm to 26 mm)	MY2H (Single axis) MY2HT (Double axis) MY1C, MY1H	28 40	37 54	58 84	
ø16 / 28 mm ø25 / 37 mm	ø40 / 58 r	nm			
				M	Y1B
	•				Y1M
				M	Y1C
				M	Y1H
	-	-		MY	71HT
	:			MY	1 0 W
	•			M	Y2C
		-	-	<u> </u>	′2H□
	-			M	Y3A Y3B
					Y3M

Easy replacement of cylinder body

The cylinder can be replaced without removing the workpiece

The cylinder can be detached by simply removing the four mounting bolts, and pulling it off in the direction of the arrows.

Cylinder body

Slider

Cylinder mounting bolt

Improved mounting flexibility

The low profile design allows mounting of heavy-loaded shock absorber (H unit) without interfering with the workpiece.

Shock absorber /

Option

(Series MY2C)

Stroke adjusting unit

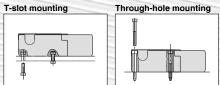
Optional side support is available

A side support prevents guide deflection for the



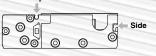
Slide table

Two mounting styles



Auto switch mounting on two sides

Тор

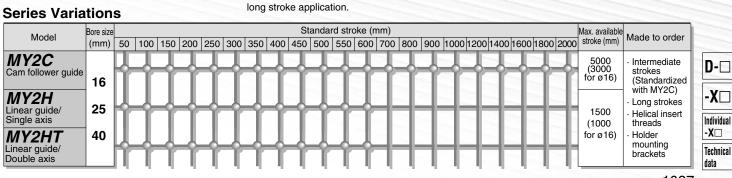


Standard with air cushion and centralized piping



Workpie

Guide uni



1087

Series MY2 Model Selection 1

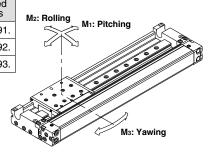
The following are the steps for selection of the series MY2 best suited to your application.

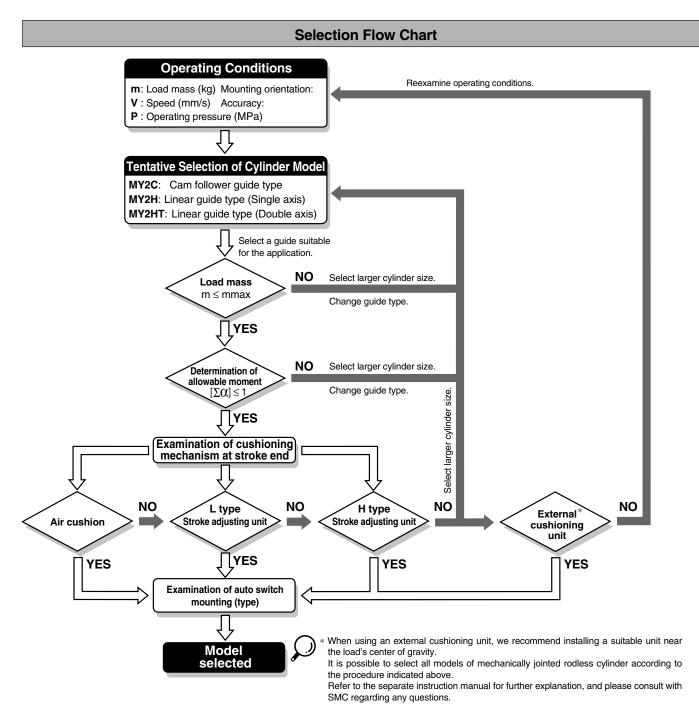
Standards for Tentative Model Selection

Cylinder model	Guide type	Standards for guide selection	Graphs for related allowable values
MY2C	Cam follower guide	Slide table accuracy approx. ± 0.05 mm $^{\text{Note 2)}}$	Refer to page 1091.
MY2H	Linear guide type (Single axis)	Slide table accuracy ± 0.05 mm or less $^{Note\ 2)}$	Refer to page 1092.
MY2HT	Linear guide type (Double axis)	Slide table accuracy ± 0.05 mm or less $^{\text{Note 2})}$	Refer to page 1093.

Note 1) Please use the precision of each guide as a guideline for selection. Please contact SMC if warranty on precision is required.

Note 2) Accuracy indicates displacement of the table (at stroke end) when 50% of the allowable moment shown in the catalog is applied. (Reference value)

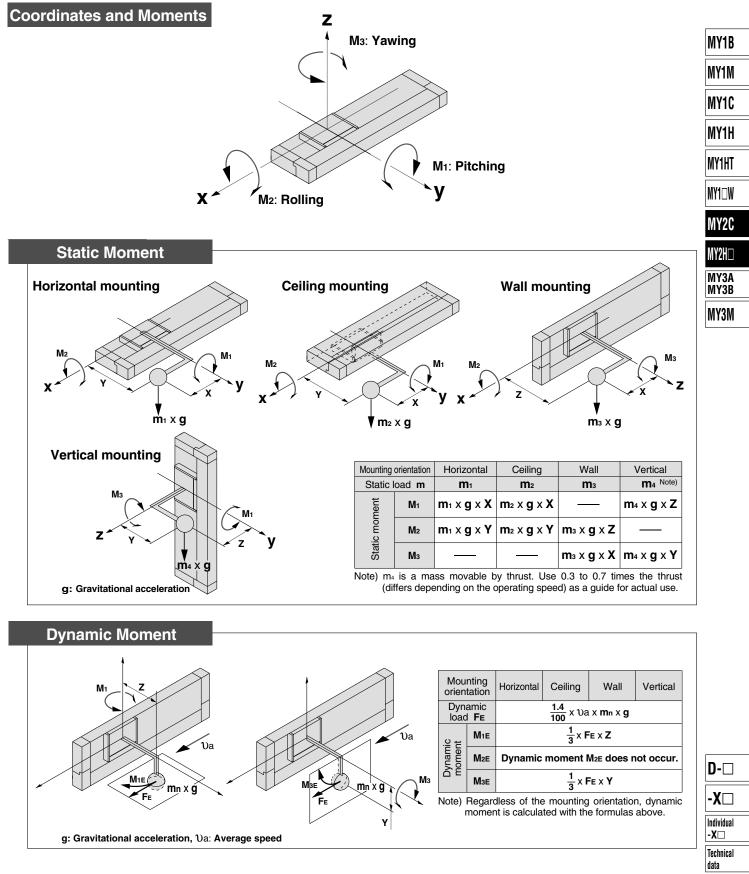






Types of Moment Applied on Rodless Cylinders

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



SMC

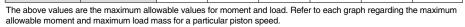
Series MY2

Maximum Allowable Moment/Maximum Load Mass

Model	Bore size	Maximum a	allowable mo	ment (N·m)	Maximum load mass (kg)			
woder	(mm)	M 1	M2	Мз	m 1	m2	m3	
MY2C	16	5	4	3.5	18	16	14	
	25	13	14	10	35	35	30	
	40	45	33	28	68	66	57	
MY2H	16	7	6	7	15	13	13	
	25	28	26	26	32	30	30	
	40	60	50	60	62	62	62	
	16	46	55	46	20	18	18	
MY2HT	25	100	120	100	38	35	35	
	40	200	220	200	80	80	80	

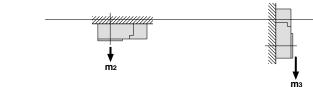
Maximum Allowable Moment

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

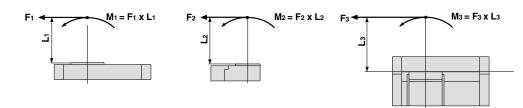


Load mass (kg)





Moment (N·m)



<Calculation of guide load factor>

- 1. Maximum load mass (1), static moment (2), and dynamic moment (3) (at the time of impact with stopper) must be examined for the selection calculations.
- * To evaluate, use $\mathcal{V}a$ (average speed) for (1) and (2), and \mathcal{V} (impact speed $\mathcal{V} = 1.4\mathcal{V}a$) for (3). Calculate m max for (1) from the maximum load mass graph (m1, m2, m3) and Mmax for (2) and (3) from the maximum allowable moment graph (M1, M2, M3).

Sum of guide $\Sigma \alpha -$	Load mass [m]	Static moment [M] (1)	Dynamic moment [ME] (2)
load factors 200-	Maximum load mass [m max]	Allowable static moment [Mmax]	Allowable dynamic moment [MEmax]

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 ($\Sigma \alpha$) is the total of all such moments.

2. Reference formulas [Dynamic moment at impact]

Use the following formulas to calculate dynamic moment when taking stopper impact into consideration. U : Impact speed (mm/s)

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

L1 : Distance to the load's center of gravity (m)

υ

m

► FE ME

- FE : Load equivalent to impact (at impact with stopper) (N) ME: Dynamic moment (N·m) g : Gravitational acceleration (9.8 m/s²)
- Ua: Average speed (mm/s)
- M : Static moment (N·m)

$$\mathcal{U} = 1.4\mathcal{V}a \text{ (mm/s)}$$
 $F_E = \frac{1.4}{100} \mathcal{V}a \cdot g \cdot m \text{ Note 4}$

$$\therefore ME = \frac{1}{3} \cdot FE \cdot L1 = 0.05 \Im a \text{ m } L1 \text{ (N·m) } \text{Note 5}$$

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.

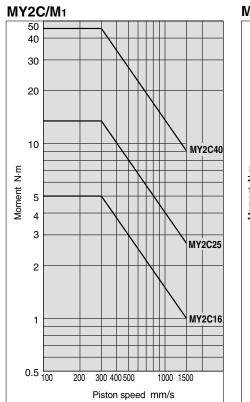
3. Refer to pages 1096 and 1097 for detailed selection procedures.

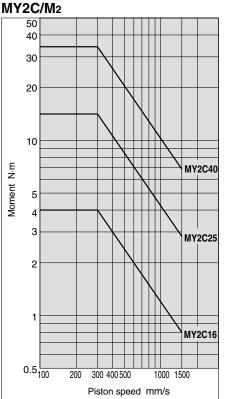
Maximum Load Mass

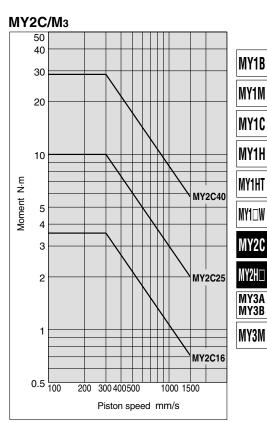
Select the load mass from within the range of limits shown in the graphs. Note that the maximum allowable moment value may sometimes be exceeded even within the operating limits shown in the graphs. Therefore, also check the allowable moment for the selected conditions.



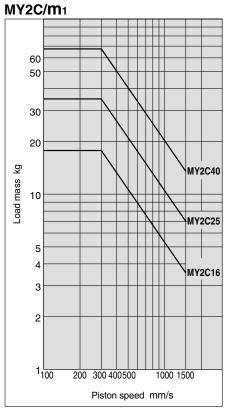
Moment/MY2C

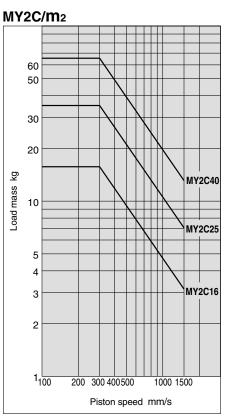




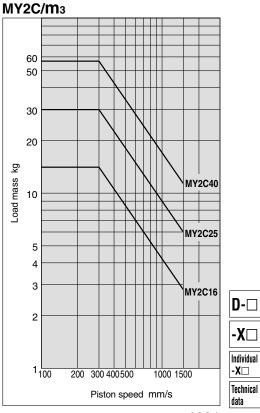


Load Mass/MY2C





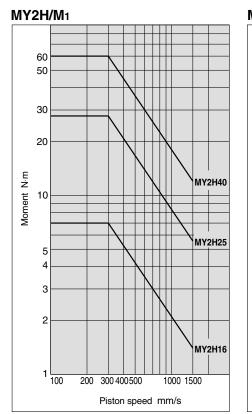
SMC

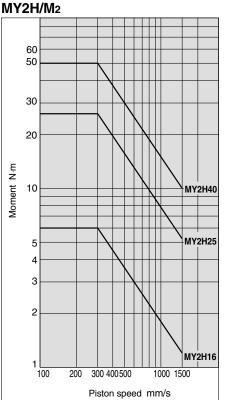


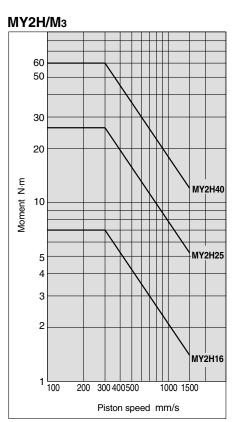
1091

Maximum Allowable Moment/Maximum Load Mass

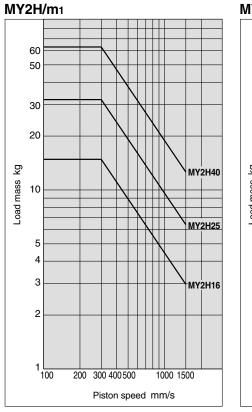
Moment/MY2H (Single axis)

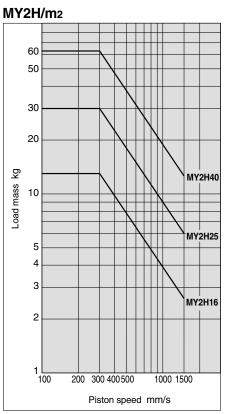




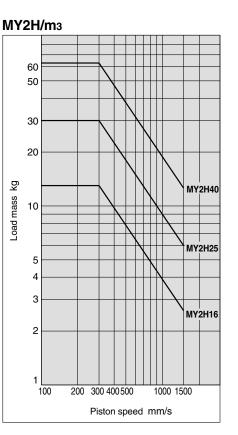


Load Mass/MY2H (Single axis)

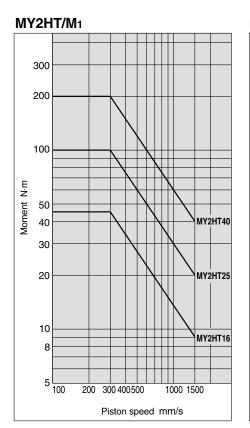


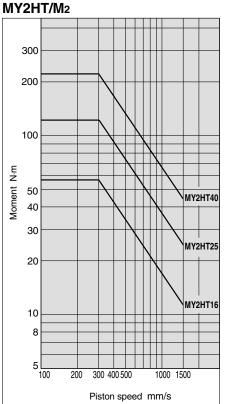


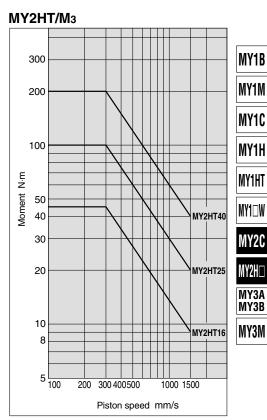
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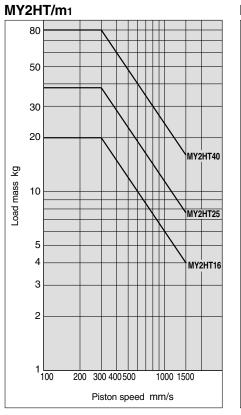
Moment/MY2HT (Double axis)

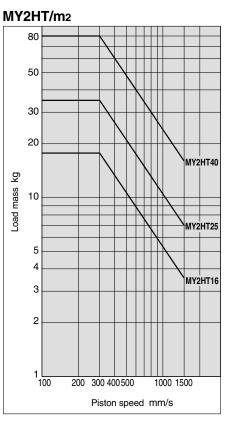




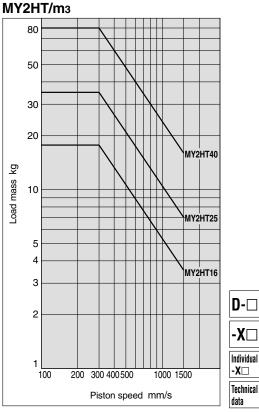


Load Mass/MY2HT (Double axis)





∕∕∂SMC



-X□

-X□

Cushion Capacity

Cushion Selection

<Air cushion>

Air cushions are a standard feature on mechanically jointed rodless cylinders. $\hfill\square$

The air cushion mechanism is installed to avoid excessive impact of the piston at the stroke end during high speed operation. The air cushion does not act to decelerate the piston near the stroke end. \Box

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

<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 necessary because the cylinder stroke is outside of the effective air cushion stroke range due to stroke adjustment.□

L unit

Use this unit when cushioning is necessary 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 and below the L unit limit line. \Box

H unit

Use this unit when the cylinder is operated in a load and speed range above the L unit limit line and below the H unit limit line.

A Caution

Do not use a shock absorber and air cushion together.

(mm)

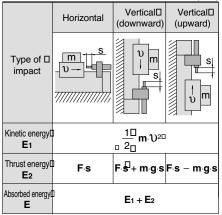
Air Cushion Stroke

Bore size (mm)	Cushion stroke			
16	120			
25	150			
40	24			

Stroke Adjusting Unit Holding Bolt Tightening Torque (N·m)

	- ()
Bore size (mm)□	Tightening torque□
16	0.7□
25	1.8□
40	5.8

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



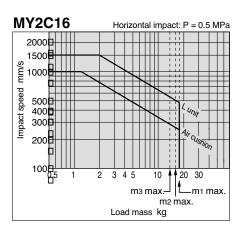
Symbols□

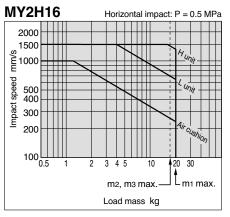
0: Speed of impacting object (m/s) m: Mass of impacting object (kg)□ F: Cylinder thrust (N) g: Gravitational acceleration (9.8 m/s²)□

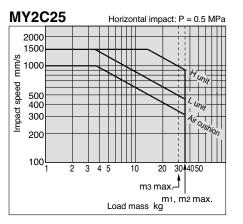
s: Shock absorber stroke (m)

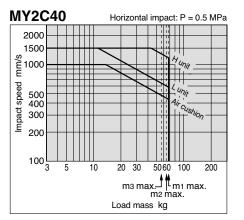
Note) The speed of the impacting object is measured at the time of impact with the shock absorber.

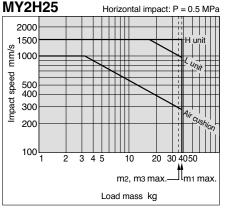
Absorption Capacity of Air Cushion and Stroke Adjusting Units

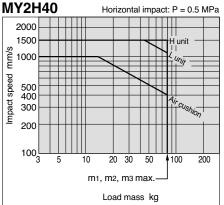


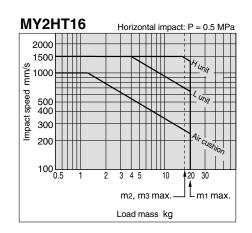


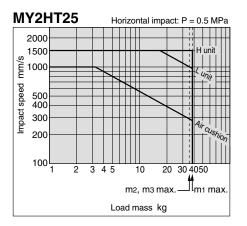


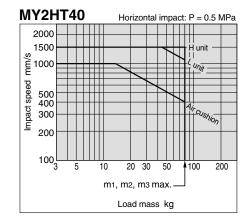




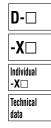






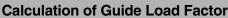


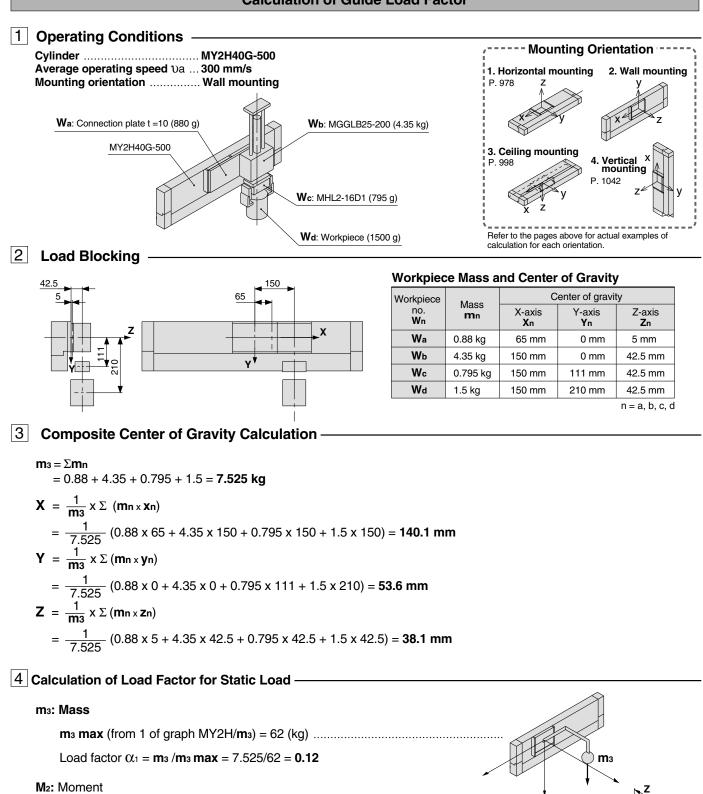
MY1B
MY1M
MY1C
MY1H
MY1HT
MY1¤W
MY2C
MY2H□
MY3A MY3B
MY3M



Series MY2 Model Selection 2

The following are the steps for selection of the series MY2 best suited to your application.



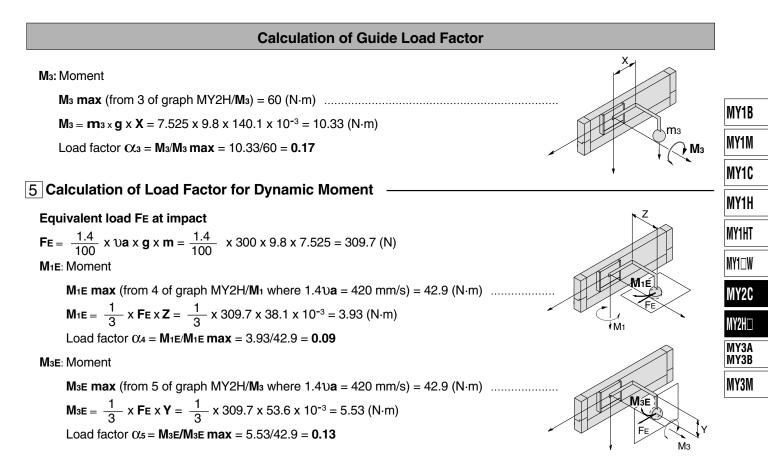


\$SMC

ma

M₂ max (from 2 of graph MY2H/M₂) = 50 (N·m) M₂ = m_{3 ×} g × Z = 7.525 × 9.8 × 38.1 × 10^{-3 =} 2.81 (N·m) Load factor α_2 = M₂/M₂ max = 2.81/50 = 0.06

Mechanically Jointed Rodless Cylinder Series MY2



6 Sum and Examination of Guide Load Factors

 $\Sigma \alpha = \alpha_1 + \alpha_2 + \alpha_3 + \alpha_4 + \alpha_5 = 0.57 \le 1$

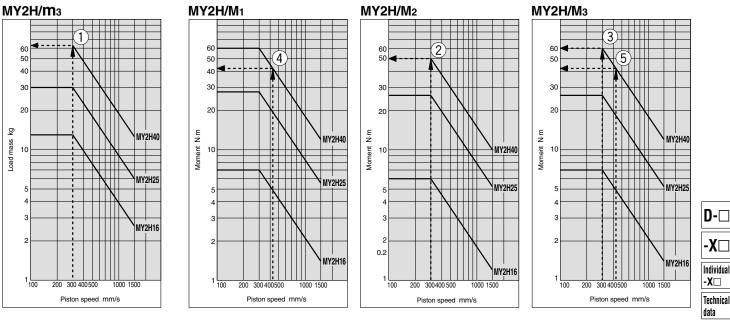
The above calculation is within the allowable value and the selected model can be used.

Select a separate shock absorber.

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

Load Mass

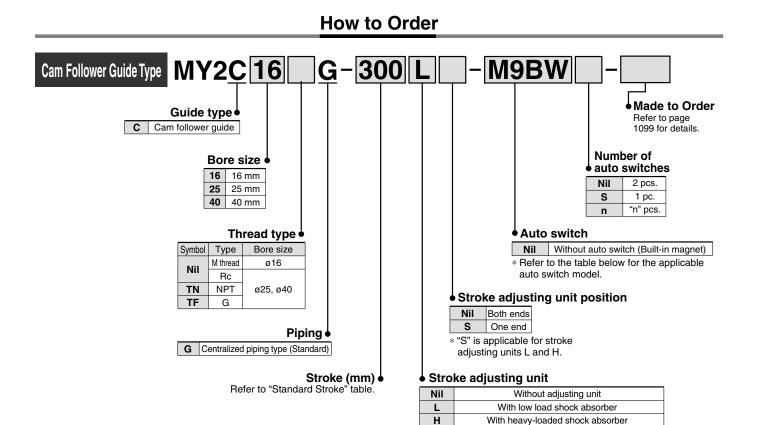
Allowable Moment





1097

Mechanically Jointed Rodless Cylinder Cam Follower Guide Type Series MY2C ^{ø16, ø25, ø40}



Applicable Auto Switch/Refer to pages 1263 to 1371 for the detailed specifications of auto switches.

۵.					L	_oad volta	ge	Auto swite	ch model	Lead	wire	engtl	h (m)	Dro wirod														
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	C	C	AC	Perpendicular entry	In-line entry	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	Pre-wired connector	Applica	ble load												
сŀ				3-wire(NPN)		51/ 101/		M9NV	M9N	٠	•	٠	0	0	IC													
switch	_			3-wire(PNP)		5V,12V		M9PV	M9P	•		•	0	0	circuit													
tes		0	Yes	2-wire	0414	12V]	M9BV	M9B	٠	•	•	0	0	_	Relay,												
state	Diagnostic		Grommet	res	3-wire(NPN)	24V N)						5V 10V	EV 10V	EV 10V		24V 5V,12V] — [M9NWV	M9NW			٠	0	0	IC	PLC
Solid	indication (2-color (indication)		3-wire(PNP)		50,120	′	M9PWV	M9PW			•	0	0	circuit														
ŝ																	2-wire		12V		M9BWV	M9BW	•		•	0	0	—
switch		Growerst	Yes	3-wire (NPN equiv.)	_	5V	_	A96V	A96	•	-	•	—	_	IC circuit	_												
	—	Grommet		Quuiro	2414	12V	100 V	A93V	A93	•	—	٠	—	_	_	Relay,												
Reed		No	∠-wire	2-wire 24V	240 120	100 Vor less	A90V	A90	•	—	٠	—	_	—	PLC													
	d wire length symbol				,		* Solid s	tate auto s	witches ma	rked	"O" a	are p	brodu	uced upon	receipt o	f order												

LH

Bore size (mm) Unit type

L unit

H unit

With one L unit and one H unit each

25 RB1007

RB1412

40

RB1412

RB2015

Shock absorbers for L and H units

16

RB0806

3 m..... L (Example) M9NWL

5 m······ Z (Example) M9NWZ

* Refer to page 1114 for applicable auto switches other than listed above.

* Refer to pages 1328 and 1329 for the details of auto switches with a pre-wired connector.

* Auto switches are shipped together (not assembled).

Mechanically Jointed Rodless Cylinder Cam Follower Guide Type Series MY2C



JIS Symbol



Specifications

Bore size (mm)	16	25	40			
Fluid		Air				
Action		Double acting				
Operating pressure range		0.1 to 0.8 MPa				
Proof pressure	1.2 MPa					
Ambient and fluid temperature	€ 5 to 60°C					
Cushion	Air cushion, Shock absorber					
Lubrication	١	lot required (Non-lube	9)			
Stroke length tolerance	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					
Port size	M5 x 0.8	Rc 1/8	Rc 1/4			

Stroke Adjusting Unit Specifications

Made to	Mad	le to Order Specifications	
Order	(Refe	r to pages 1395 to 1565 for details.)	
JIS Symbol		Specification	

JIS Symbol	Specification
-XB11	Long stroke type
-X168	Helical insert thread
-X416	Holder mounting bracket I
-X417	Holder mounting bracket II

						IMY	
Bore size (mm)	16	2	5	4	0		
Unit symbol	L	L H		L	Н	Μ	
Shock absorber model	RB0806	RB1007 RB1412		RB1412	RB2015		
Stroke fine adjusting range (mm)	0 to -5.6	0 to -	-11.5	0 to	M		
Stroke adjusting range	When exceeding the stroke fine adjusting range: Use the Made to O Specifications "-X416" and "-X417". (Refer to page 1554 for details.)						

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

Shock Absorber Specifications

Mc	odel	RB 0806	RB 1007	RB 1412	RB 2015				
Max. energy ab	osorption (J)	2.9	5.9	19.6	58.8				
Stroke absorpt	ion (mm)	6	7		15				
Max. impact sp	eed (mm/s)	1500	1500	1500	1500				
Max. operating fre	quency (cycle/min)	80	80 70		25				
Spring	Extended	1.96	4.22	6.86	8.34				
force (N) Compressed		4.22	6.86	15.98	20.50				
Operating tempe	erature range (°C)	5 to 60							

* The shock absorber service life is different from that of the MY2C cylinder depending on operating conditions. Refer to the Specific Product Precautions for the replacement period.

Piston Speed

Bore size (mm)		16	25 40					
Without stroke adjusting unit		100 to 1000 mm/s ^{Note 1)}						
Stroke adjusting unit	L unit and H unit	-	100 to 1500 mm/	S				

Note 1) When exceeding the air cushion stroke ranges on page 1094, the piston speed should be 100 to 200 mm/s.

Note 2) Use at a piston speed within the absorption capacity range. Refer to page 1094.

Standard Stroke

Bore size (mm)	Standard stroke (mm) *	Maximum manufacturable stroke (mm)	D- □
16	100, 200, 300, 400, 500, 600, 700, 800, 900	3000	
25, 40	1000, 1200, 1400, 1600, 1800, 2000	5000	-X □
When ex	re manufacturable in 1 mm increments, up to the ma ceeding a 2000 mm stroke, specify "-XB11" at the er		Individual - X 🗆

When exceeding a 2000 mm stroke, specify "-XB11" at the end of the model number. Refer to the Made to Order Specifications on page 1405.

MY1B MY1M MY1C MY1H MY1HT IY10W Y2C Y2H□ IY3A IY3B MY3M



-X□

Technical data

Series MY2C

Theoretical Output

								Unit: N						
Bore	Piston	Operating pressure (MPa)												
size (mm)	(mm ²) 0.1		0.2 0.3 0.4 0.5 0.6		0.6	0.7	0.8							
16	200	40	60	80	100	120	140	160						
25	490	98	147	196	245	294	343	392						
40	1256	251	377	502	628	754	879	1005						

Note) Theoretical output (N) = Pressure (MPa) x Piston area (mm²)

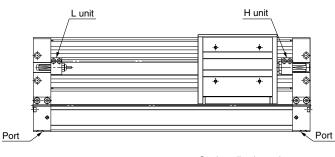
Option

Stroke Adjusting Unit No.

Bo Unit type	(mm)	16	25	40
L unit	Left	MY2H-A16L1	MY2H-A25L1	MY2C-A40L1
Lunit	Right	MY2H-A16L2	MY2H-A25L2	MY2C-A40L2
H unit	Left	—	MY2H-A25H1	MY2C-A40H1
	Right	—	MY2H-A25H2	MY2C-A40H2

Note) Port positions are indicated as right and left from the front.

Left side Form and mounting direction of stroke adjusting unit Right side



Stroke adjusting unit Example of LH attachment

Mass

					Unit: kg				
Bore size (mm)	Basic	Additional mass	Side support bracket mass	Stroke adjusting unit mase (per unit)					
	mass	per 50mm of stroke	(per set)	L unit	H unit				
16	1.05	0.13	0.01	0.03	_				
25	25 2.59 0.29		0.02	0.06	0.09				
40	8.78	0.67	0.04	0.17	0.23				
Calculation m	nethod								

Example: MY2C25G-300L

Basic mass	2.59 kg
Additional mass	0.29/50 st
Mass of L unit	0.06 kg
Cylinder stroke	· 300 st
2.59 + 0.29 x 300 ÷ 50 + 0.06 x	2 = Approx. 4.45 kg

Replacement Parts

Drive Unit (Cylinder) Replacement Part No.

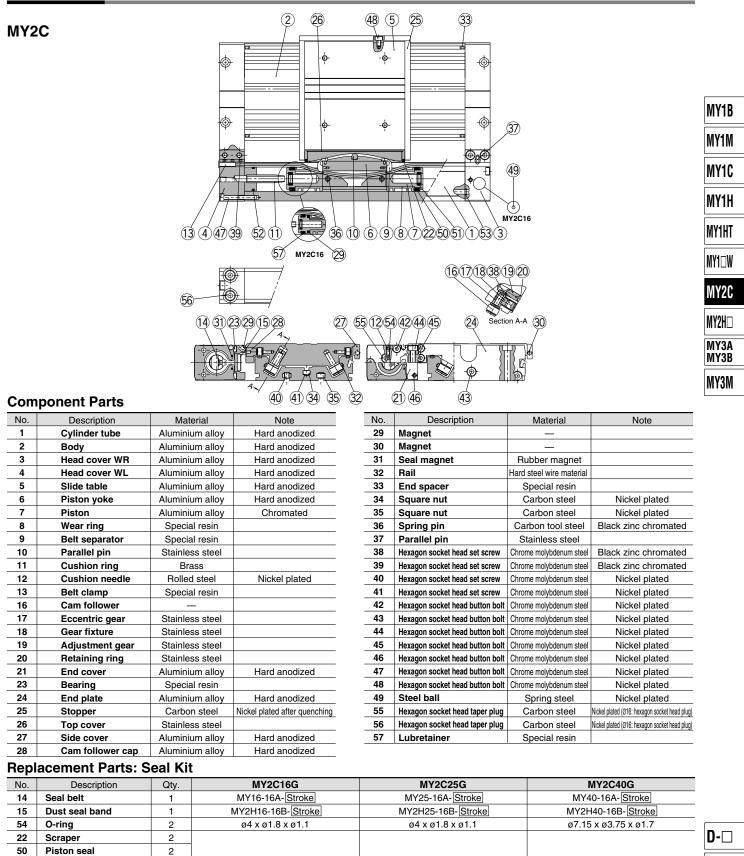
Model Bore size (mm)	MY2C
16	MY2BH16G-Stroke
25	MY2BH25□G- Stroke
40	MY2BH40□G- Stroke

Enter a symbol for port thread type inside $\square.$

Note) Order auto switches separately.

Mechanically Jointed Rodless Cylinder Cam Follower Guide Type Series MY2C

Construction



52 Tube gasket 2 53 O-ring 4

Cushion seal

51

Seal kit includes $@, \ensuremath{\mathfrak{G}}, \ensuremath{\mathfrak{G}}, \ensuremath{\mathfrak{G}}, \ensuremath{\mathfrak{G}}$ and $\ensuremath{\mathfrak{G}}.$ Order the seal kit based on each bore size

2

Seal kit includes a grease pack (10 g).

MY2B25-PS

When (1) and (15) 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. Grease pack part number: GR-S-010 (10 g) , GR-S-020 (20 g)



MY2B16-PS

-X□

Individual

Technical

data

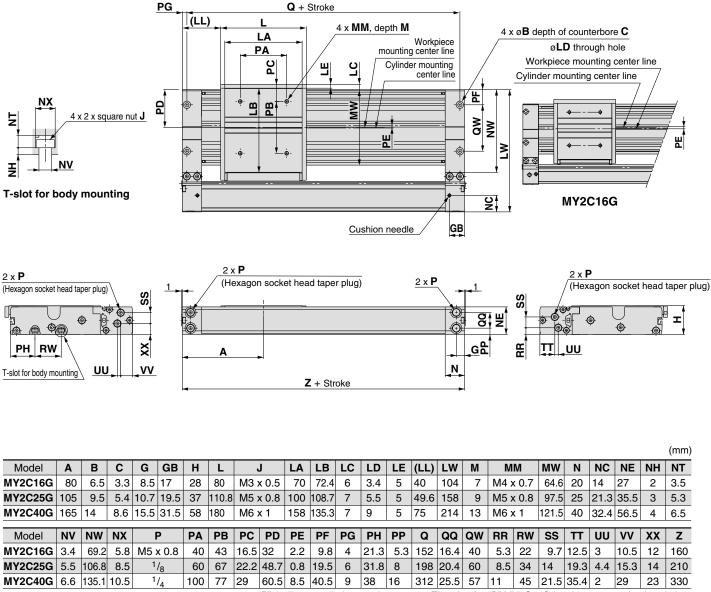
-X□

MY1B40-PS

Series MY2C

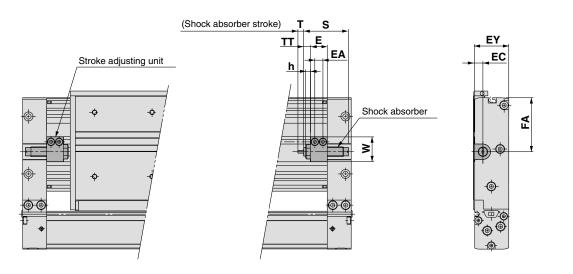
ø16, ø25, ø40

MY2C Bore size G - Stroke



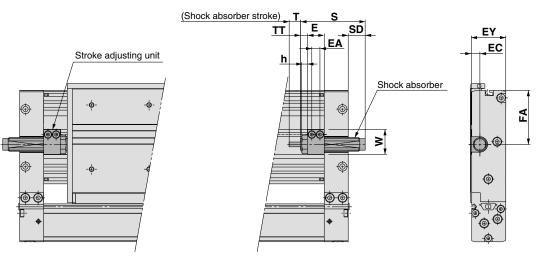
"P" indicates cylinder supply ports. * The plug for "P" MY2C16G is a hexagon socket head plug.

Stroke adjusting unit Low load shock absorber MY2C Bore size G – Stroke L



Applicable cylinder	E	EA	EC	EY	FA	h	S	Т	TT	W	Shock absorber model
MY2C16	14.4	7	6	27	38.5	4	40.8	6	5.6 (Max. 11.2)	16.5	RB0806
MY2C25	17.5	8.5	9	36	56.4	5	46.7	7	7.1 (Max. 18.6)	25.8	RB1007
MY2C40	25	13	13.5	56.5	67.8	6	67.3	12	10 (Max. 26)	38	RB1412

Heavy-loaded shock absorber MY2C Bore size G – Stroke H



Applicable cylinder	Е	EA	EC	EY	FA	h	S	SD	Т	TT	W	Shock absorber model
MY2H25	17.5	8.5	9	36	56.4	6	67.3	17.7	12	7.1 (Max. 18.6)	25.8	RB1412
MY2H40	25	13	13.5	56.5	67.8	6	73.2	—	15	10 (Max. 26)	38	RB2015



D-□

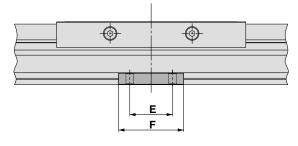
-X Individual -X Technical data

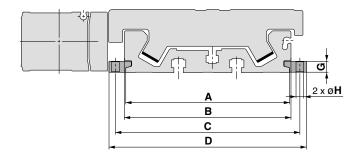


Series MY2C

Side Support

Side support MYC-S□A





Model	Applicable cylinder	Α	В	С	D	E	F	G	øН
MYC-S16A	MY2C16	60.6	64.6	70.6	77.2	15	26	4.9	3.4
MYC-S25A	MY2C25	95.9	97.5	107.9	115.5	25	38	6.4	4.5
MYC-S40A	MY2C40	121.5	121.5	134.5	145.5	45	64	11.7	6.6
A				and a state					

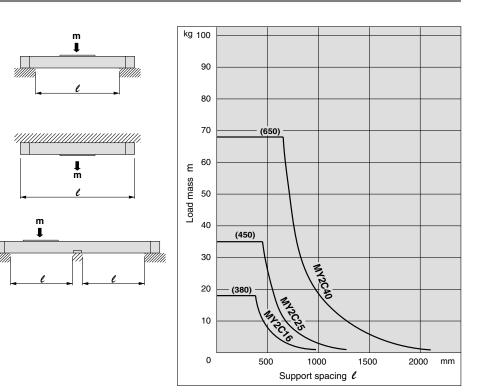
* A set of side supports consists of a left support and a right support.

Guide for Using Side Support

For long stroke operation, the cylinder tube may deflect due to its own mass and/or load mass. In such cases, install a side support at the intermediate stroke position. The spacing (ℓ) of the side support must be no more than the values shown in the graph at right.

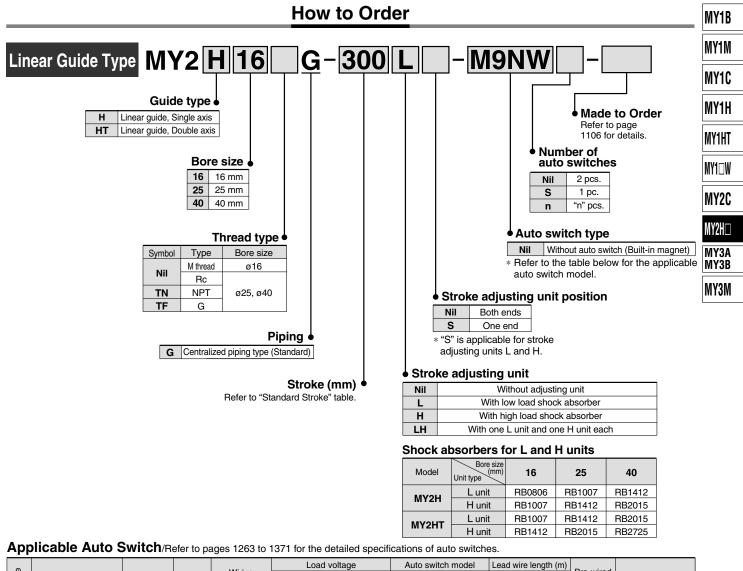
▲ Caution

- If the cylinder mounting surfaces are not measured accurately, using a side support may cause poor operation. Make sure to level the cylinder tube when mounting the cylinder. For long stroke operation involving vibration and impact, the use of side supports is recommended even if the support spacing is within the allowable limits shown in the graph.
- ② Support brackets are not for mounting. They should be used only to provide support.



Mechanically Jointed Rodless Cylinder Linear Guide Type Series MY2H/HT

ø16, ø25, ø40



a				M/ining	L	oad volta	ge	Auto swite	ch model	Lead	wire I	ength	n (m)	Dro wirod		
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	D	C	AC	Perpendicular entry	In-line entry	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	Pre-wired connector	Applica	ble load
ч				3-wire(NPN)		5V,12V	EV 10V		M9N	•	۲		0	0	IC	
switch	—			3-wire(PNP)		50,120		M9PV	M9P		•	•	0	0	circuit	
	Diagnostic Grommet	Crommet	Yes	2-wire	24V	12V		M9BV	M9B		۲		0	0	_	Relay,
stai		Gronninet	res	3-wire(NPN)		5V,12V	10)/	M9NWV	M9NW		•	•	0	0	IC P	PLC
Solid	(2-color)			3-wire(PNP)		50,120		M9PWV	M9PW		٠		0	0	circuit	
S	(indication)			2-wire		12V		M9BWV	M9BW		•	•	0	0	—	
switch		0	Yes	3-wire (NPN equiv.)		5V	_	A96V	A96	•	_	•	_	—	IC circuit	_
pe	_	Grommet		0 wire	24V	12V	100 V	A93V	A93		—			—	—	Relay,
Reed			No	2-wire	24V	120	100 Vor less	A90V	A90				—	—	—	PLC
* Lea	* Lead wire length symbols: 0.5 m··············Nil (Example) M9NWM 1 m···········Nil (Example) M9NWM 3 m····································															

* Refer to page 1114 for applicable auto switches other than listed above.

* Refer to pages 1328 and 1329 for the details of auto switches with a pre-wired connector.

* Auto switches are shipped together (not assembled).

1105

D-🗆

-X□

Individual

-X 🗆 Technical data



Series MY2H/HT



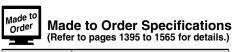
JIS Symbol



Specifications

Bore size (mm)	16	25	40		
Fluid	Air				
Action	Double acting				
Operating pressure range	0.1 to 0.8MPa				
Proof pressure	1.2MPa				
Ambient and fluid temperature	5 to 60°C				
Cushion	Air	cushion, Shock absor	ber		
Lubrication	Not required (Non-lube)				
Stroke length tolerance	+1.8 0				
Port size	M5 x 0.8	Rc 1/8	Rc 1/4		

Stroke Adjusting Unit Specifications



JIS Symbol	Specification			
-XB10	Intermediate stroke (Using exclusive body)			
-XB11	Long stroke type			
-XB20	Stroke adjusting unit with adjusting bolt			
-X168	Helical insert thread			
-X416	Holder mounting bracket I			
-X417	Holder mounting bracket II			

Bore size (mm)		16		25		40	
Unit symbol		L	Н	L	Н	L	Н
Shock absorber	MY2H	RB0806	RB1007	RB1007	RB1412	RB1412	RB2015
model	MY2HT	RB1007	RB1412	RB1412	RB2015	RB2015	RB2725
Stroke fine adjusting	range (mm)	0 to -5.6		0 to -11.5		0 to -16	
Stroke adjusting range		When exceeding the stroke fine adjusting range: Use the Made to Order Specifications "-X416" and "-X417". (Refer to page 1554 for details.)					

* Fine 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 a	bsorption (J)	2.9	5.9	19.6	58.8	147
Stroke absorption (mm)		6	7	12	15	25
Max. impact s	Max. impact speed (mm/s)		1500	1500	1500	1500
Max. operating f	requency (cycle/min)	80	70	45	25	10
Spring	Extended	1.96	4.22	6.86	8.34	8.83
force (N)	Compressed	4.22	6.86	15.98	20.50	20.01
Operating temperature range (°C)				5 to 60		

* The shock absorber service life is different from that of the MY2H/HT cylinder depending on operating conditions. Refer to the Specific Product Precautions for the replacement period.

Piston Speed

Bore size (mm)	16	25	40	
Without stroke adjusting unit	100 to 1000 mm/s ^{Note 1)}			
Stroke adjusting unit	L unit and H unit	1	100 to 1500 mm/	s
Note 1) When exceeding the a				

ir cushion stroke ranges on page 1094, the **piston speed** should be 100 to 200 mm/s.

Note 2) Use at a piston speed within the absorption capacity range. Refer to page 1094.

Standard Stroke

Bore size (mm)	Standard stroke (mm) *	Maximum manufacturable stroke (mm)
16	50, 100, 150, 200, 250, 300,	1000
25, 40	350, 400, 450, 500, 550, 600	1500



Strokes are manufacturable in 1 mm increments, up to the maximum stroke. However, add "-XB10" to the end of the part number for non-standard strokes from 51 to 599. Also when exceeding a 600 mm stroke, specify "-XB11" at the end of the model number. Refer to the Made to Order Specifications on page 1405.



Mechanically Jointed Rodless Cylinder Linear Guide Type Series MY2H/HT

Theoretical Output

								Unit: N
Bore size	Piston area	Operating pressure (MPa)						
(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
25	490	98	147	196	245	294	343	392
40	1256	251	377	502	628	754	879	1005

Note) Theoretical output (N) = Pressure (MPa) x Piston area (mm²)

Mass

					Unit: kg		
	Bore size	Basic	Additional mass	Stroke adjust (per			
Model	(mm)	mass		L unit	H unit		
	16	0.86	0.22	0.03	0.04		
MY2H	25	2.35	0.42	0.06	0.09		
	40	6.79	0.76	0.16	0.22	MY1B	
	16	1.27	0.31	0.04	0.08	MV4M	
MY2HT	25	3.70	0.61	0.10	0.18	MY1M	
	40	10.05	1.13	0.27	0.46	MY1C	
Calculation							
Example: MY2H25G-300L Basic mass 2.35 kg							
Additional mass 0.42/50 st Mass of L unit 0.06 kg Cylinder stroke 300 st							
2.35 + 0.42 x 300 ÷ 50 + 0.06 x 2 = Approx. 4.99 kg Replacement Parts						MY10W	

Drive Unit (Cylinder) Replacement Part No.

Model Bore size (mm)	MY2H	МҮ2НТ	MY2H□		
16	MY2BH16G	- Stroke	MY3A		
25	MY2BH25□G	- Stroke	MY3B		
40 MY2BH40⊡G- Stroke					
Enter a symbol for port thread type inside .					

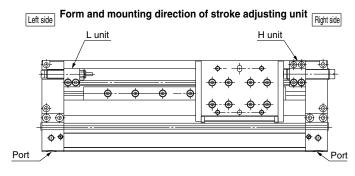
Note) Order auto switches separately.

Option

Stroke Adjusting Unit No.

Model	Bo Unit type	re size (mm)	16	25	40
	Lunit	Left	MY2H-A16L1	MY2H-A25L1	MY2H-A40L1
MY2H	L unit	Right	MY2H-A16L2	MY2H-A25L2	MY2H-A40L2
		Left	MY2H-A16H1	MY2H-A25H1	MY2H-A40H1
		Right	MY2H-A16H2	MY2H-A25H2	MY2H-A40H2
	Lumit	Left	MY2HT-A16L1	MY2HT-A25L1	MY2HT-A40L1
МУ2НТ	L unit	Right	MY2HT-A16L2	MY2HT-A25L2	MY2HT-A40L2
	H unit	Left	MY2HT-A16H1	MY2HT-A25H1	MY2HT-A40H1
	H unit	Right	MY2HT-A16H2	MY2HT-A25H2	MY2HT-A40H2

Note) Port positions are indicated as right and left from the front.



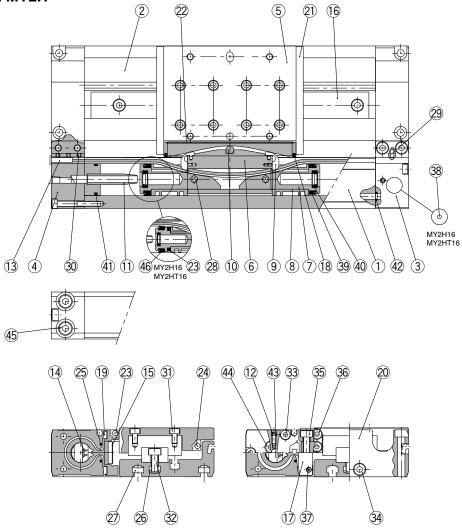
Stroke adjusting unit Example of LH attachment

MY2C

Series MY2H/HT

Construction

Single axis type: MY2H

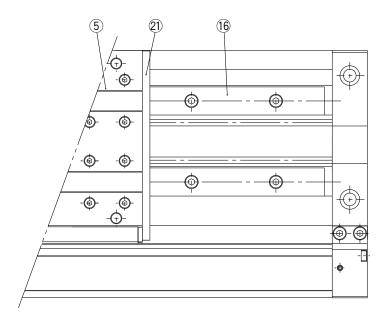


Component Parts

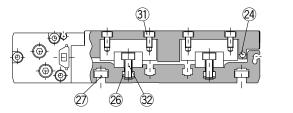
0011								
No.	Description	Material	Note					
1	Cylinder tube	Aluminum alloy	Hard anodized					
2	Body	Aluminum alloy	Anodized					
3	Head cover WR	Aluminum alloy	Hard anodized					
4	Head cover WL	Aluminum alloy	Hard anodized					
5	Slide table	Aluminum alloy	Hard anodized					
6	Piston yoke	Aluminum alloy	Hard anodized					
7	Piston	Aluminum alloy	Chromated					
8	Wear ring	Special resin						
9	Belt separator	Special resin						
10	Parallel pin	Stainless steel						
11	Cushion ring	Brass						
12	Cushion needle	Rolled steel	Nickel plated					
13	Belt clamp	Special resin						
16	Guide	—						
17	End cover	Aluminum alloy	Hard anodized					
19	Bearing	Special resin						
20	End plate	Aluminum alloy	Hard anodized					
21	Stopper	Carbon steel	Nickel plated after quenching					
22	Top cover	Stainless steel						

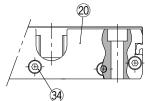
No.	Description	Material	Note
23	Magnet	_	
24	Magnet	_	
25	Seal magnet	Rubber magnet	
26	Square nut	Carbon steel	Nickel plated
27	Square nut	Carbon steel	Nickel plated
28	Spring pin	Carbon tool steel	Black zinc chromated
29	Parallel pin	Stainless steel	
30	Hexagon socket head set screw	Chrome molybdenum steel	Black zinc chromated
31	Hexagon socket head button bolt	Chrome molybdenum steel	Nickel plated
32	Hexagon socket head button bolt	Chrome molybdenum steel	Nickel plated
33	Hexagon socket head button bolt	Chrome molybdenum steel	Nickel plated
34	Hexagon socket head button bolt	Chrome molybdenum steel	Nickel plated
35	Hexagon socket head button bolt	Chrome molybdenum steel	Nickel plated
36	Hexagon socket head button bolt	Chrome molybdenum steel	Nickel plated
37	Hexagon socket head button bolt	Chrome molybdenum steel	Nickel plated
38	Steel ball	Spring steel	Nickel plated
44	Hexagon socket head taper plug	Carbon steel	Nickel plated (ø16: Hexagon socket head plug)
45	Hexagon socket head taper plug	Carbon steel	Nickel plated (ø16: Hexagon socket head plug)
46	Lubretainer	Special resin	

Double axis type: MY2HT



MY1B
MY1M
MY1C
MY1H
MY1HT
MY10W
MY2C
MY2H□
MY3A My3b
MY3M



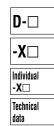


Replacement Parts: Seal Kit

No.	Description	Qty.	MY2H16G/MY2HT16G	MY2H25G/MY2HT25G	MY2H40G/MY2HT40G
14	Seal belt	1	MY16-16A-Stroke	MY25-16A-Stroke	MY40-16A-Stroke
15	Dust seal band	1	MY2H16-16B-Stroke	MY2H25-16B-Stroke	MY2H40-16B-Stroke
43	O-ring	2	ø4 x ø1.8 x ø1.1	ø4 x ø1.8 x ø1.1	ø7.15 x ø3.75 x ø1.7
18	Scraper	2			
39	Piston seal	2			
40	Cushion seal	2	MY2B16-PS	MY2B25-PS	MY1B40-PS
41	Tube gasket	2			
42	O-ring	4			

* Seal kit includes 18, 39, 40, 41 and 42. Order the seal kit based on each bore size.

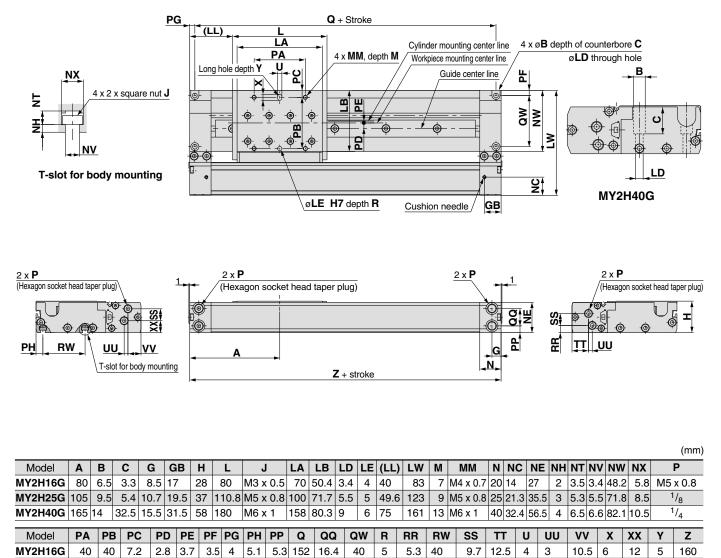
Seal kit includes a grease pack (10 g).
When ⁽¹⁾/₄ and ⁽¹⁾/₅ are shipped as single units, a grease pack (20 g) is included.
Order with the following part number when only the grease pack is needed.
Grease pack part number:GR-S-010 (10 g), GR-S-020 (20 g)



Series MY2H/HT

Single Axis Type: Ø**16**, Ø**25**, Ø**40**

MY2H Bore size G – Stroke



5.5 6 7.5 60 5 50 5 15.3 5 210 2.7 8 198 20.4 8.5 14 19.3 4.4 7.5 14 8.5 5 17 9 9.5 16 25.5 35.4 312 57 8 11 53.5 21.5 6 2 29 9 23 8 330

"P" indicates cylinder supply ports. * The plug for "P" MY2H16G is a hexagon socket head plug.

MY2H25G

MY2H40G

60 8.2

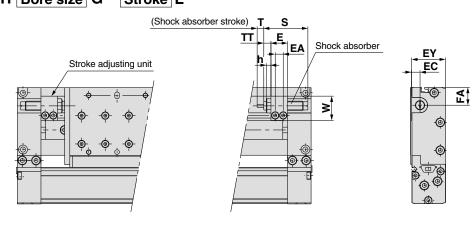
70 5.5

60

100

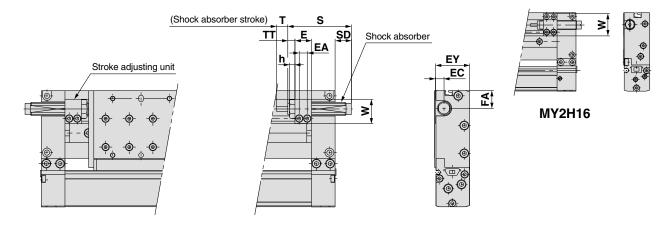
6.6

Stroke adjusting unit Low load shock absorber MY2H Bore size G – Stroke L

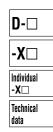


Applicable cylinder	Е	EA	EC	EY	FA	h	S	Т	TT	W	Shock absorber model
MY2H16	14.4	7	6	27	12.5	4	40.8	6	5.6 (Max. 11.2)	16.5	RB0806
MY2H25	17.5	8.5	9	36	19.3	5	46.7	7	7.1 (Max. 18.6)	25.8	RB1007
MY2H40	25	13	13	57	17	6	67.3	12	10 (Max. 26)	38	RB1412

Heavy-loaded shock absorber MY2H Bore size G – Stroke H



Applicable cylinder	Е	EA	EC	EY	FA	h	S	SD	Т	TT	W	Shock absorber model
MY2H16	14.4	7	6	27	12.5	_	46.7	6.7	7	5.6 (Max. 11.2)	23.5	RB1007
MY2H25	17.5	8.5	9	36	19.3	6	67.3	17.7	12	7.1 (Max. 18.6)	25.8	RB1412
MY2H40	25	13	13	57	17	6	73.2	—	15	10 (Max. 26)	38	RB2015



MY1B

MY1M

MY1C

MY1H

MY1HT

MY1⊡W

MY2C

MY2H🗆

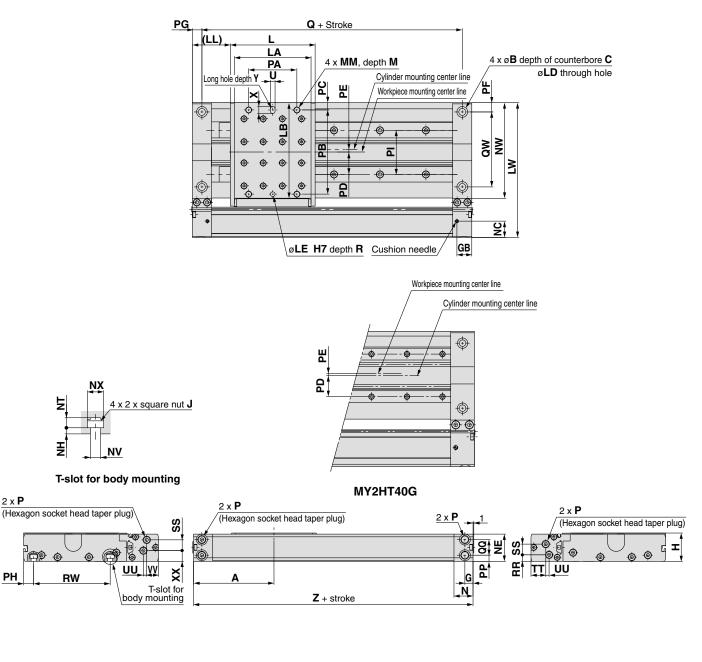
MY3A My3b

MY3M

Series MY2H/HT

Double Axis Type: Ø16, Ø25, Ø40

MY2HT Bore size G - Stroke

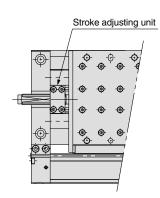


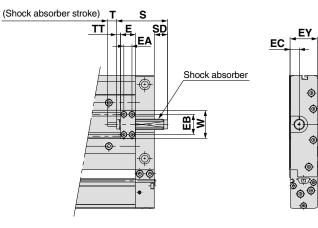
Model	Α	В	С	G	GB	Н	L	,	J	LA	LB	LD	LE	(LL)	LW	М	M	N	Ν	NC	NE	NH	NT
MY2HT16G	80	9.5	5.4	8.5	17	28	80	M4 x	0.7	70	87.4	5.5	5	40	120	9	M5 >	× 0.8	20	14	27	3	4.7
MY2HT25G	105	14	8.6	10.7	19.5	37	110.8	M6 x	1	100	124.7	9	6	49.6	176	12	M8 >	x 1.25	25	21.3	35.5	4	6.5
MY2HT40G	165	17.5	10.8	15.5	31.5	58	180	M8 x	1.25	158	148.3	11	8	75	229	16	M10 >	< 1.5	40	32.4	56.5	5	9
	NIN /	N 13.47	N13/					-				-		-	-	•		0.11	-		- D14/		
Model	NV	NW	NX	F	,	PA	PB	PC	PD	PE	PF	PG	PH	PI	PP	Q	QQ	QW	R	RR	RW	SS	TT
MY2HT16G	4.5	85.2	7.3	M5 >	8.0 א	44	80	4	23	1	10	10	10.2	41	5.3	140	16.4	66	5	5.3	69	9.7	12.5
MY2HT25G	6.6	124.8	10.5	1,	/ ₈	63	110	9.4	29.2	3.4	12	12.5	13	57.6	8	185	20.4	98	8	8.5	100	14	19.3
MY2HT40G	9	150.1	14	1,	4	113	132	8.5	35.5	0.5	20	20	18.5	72	16	290	25.5	110	12	11	116	21.5	35.4
Model	Ш	1111	VV	X	XX	v	7																

Model	U	UU	VV	Х	XX	Y	Z
MY2HT16G	5	3	10.5	7	12	5	160
MY2HT25G	6	4.4	15.3	9	14	8	210
MY2HT40G	8	2	29	12	23	12	330

"P" indicates cylinder supply ports. * The plug for "P" MY2HT16G is a hexagon socket head plug.

Stroke adjusting unit Low load shock absorber MY2HT Bore size G – Stroke L





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Applicable cylinder	Е	EA	EB	EC	EY	FA	S	SD	Т	TT	W	Shock absorber model	
MY2HT16	14.4	7	21	8	27	46.5	46.7	6.7	7	5.6 (Max. 11.2)	28.6	RB1007	
MY2HT25	19.7	10.7	26.6	11.2	36	64.8	67.3	17.7	12	4.9 (Max. 16.4)	37.2	RB1412	
MY2HT40	29.1	15.1	37	17.2	57	74.5	73.2	-	15	5.9 (Max. 21.9)	51.6	RB2015	

Heavy-loaded shock absorber

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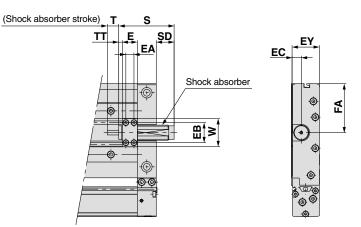
MY2HT Bore size G - Stroke H

Stroke adjusting unit

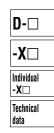
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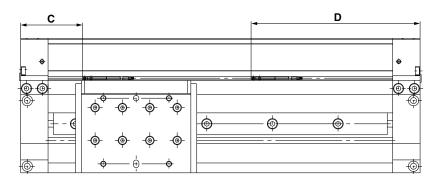


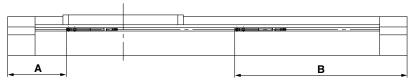
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MY2HT40	29.1	15.1	37	17.2	57	74.5	99	24	25	5.9 (Max. 21.9)	51.6	RB2725



Proper Auto Switch Mounting Position (Detection at stroke end)

Note) The operating range is a standard including hysteresis, and is not guaranteed. There may be large variations depending on the surrounding environment (variations on the order of $\pm 30\%$).





D-A9□, D-A9□V					D-M9□, D-M9□V, I	D-M9⊡W,	D-M9⊟WV	1
Series model	Α	В	Operating range		Series model	Α	В	Operating range
MY2C16	44	116			MY2C16	48	112	
MY2H16	46	114			MY2H16	50	110	
MY2HT16	70	90	11		MY2HT16	74	86	8.5
MY2C/H/HT25	54	156			MY2C/H/HT25	58	152	
MY2C/H/HT40	85	245			MY2C/H/HT40	89	241	
		•						•
Series model	С	D	Operating range		Series model	С	D	Operating range
MY2C/H/HT16	27.6	132.4	6.5		MY2C/H/HT16	31.6	128.4	4
MY2C/H/HT25	69	141		1	MY2C/H/HT25	73	137	
MY2C/H/HT40	90.2	239.8	11		MY2C/H/HT40	94.2	235.8	8.5
* A alivest the average average						1	1	1

* Adjust the auto switch after confirming the operating conditions in the actual setting.

I Besides the models listed in How to Order, the following auto switches are applicable. I * For solid state auto switches, auto switches with a pre-wired connector are also available. Refer to pages 1328 and 1329 for details. * Normally closed (NC = b contact) solid state auto switches (D-F9G/F9H types) are also available. Refer to page 1290 for details. I L



Be sure to read before handling. Refer to front matters 54 and 55 for Safety Instructions and pages 3 to 11 for Actuator and Auto Switch Precautions.

Selection

MWarning

1. Be sure to confirm the specifications.

Products included in this catalog are designed to be used exclusively for the industrial compressed air systems. Do not use them outside the range of pressure and temperature listed in the specifications since it may damage the products or cause malfunctions (Refer to specifications.).

When using fluid other than compressed air, contact with SMC.

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 (Series MY2C) on page 1104.

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 PAB-connected 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

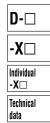
When the cylinder is used extremely infrequently, operation may be interrupted in order for anchoring and a change lubrication to be performed or service life may be reduced.

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.





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Mounting

ACaution

1. 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.

2. 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. \Box

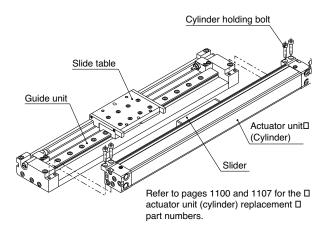
Mount the external guide mounting brackets and floating brackets in a place where the required degree of freedom for the floating Y and Z axes can be secured. \Box

The thrust transmission area of the floating bracket must be fixed so that it does not partially contact the body. \Box

∗ Refer to the Coordinates and Moment in Model Selection on page 1089 for the details of floating Y and Z axes.□

3. Attaching and detaching the actuator unit (cylinder)

When detaching the actuator unit, remove the four cylinder holding bolts and take the actuator unit off the guide unit. When attaching the actuator unit, insert the slider into the slide table on the guide unit, and tighten the four holding bolts equally. Since loosened holding bolts may cause damage or malfunction, be sure to secure them tightly.



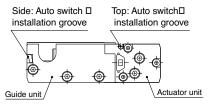
4. Auto Switch Mounting

The series MY2 can be equipped with auto switches on the top of the actuator unit (cylinder) and on the side of the guide unit, but use caution in the following cases. \Box

<Mounting an auto switch on the top of the actuator unit (cylinder)>

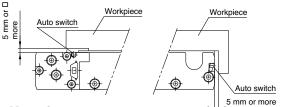
For auto switches with perpendicular electrical entry, the lead wire may interfere with the workpiece depending on the workpiece mounting type and shape. \Box

Be sure to allow a clearance in order to keep the lead wire from interfering with the workpiece.



5. Workpiece Mounting

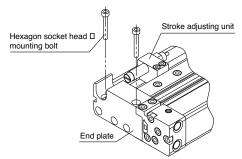
When mounting a magnetic workpiece, the auto switch may stop working due to a loss of magnetic force in the cylinder depending on the mounting position. Allow a clearance of 5 mm or more between the auto switch and workpiece.



6. Body Mounting

SMC

When mounting MY2H40G with stroke adjusting unit from the top, move the stroke adjusting unit and secure the body with the end plate mounting holes. After mounting, return the stroke adjusting unit to the stroke end and secure it again.



7. 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-mass 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. After doing so, if air leakage still occurs, please consult with SMC.



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Mounting

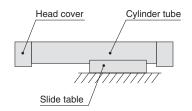
ACaution

11. 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.

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

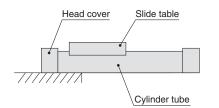
It may cause damage or malfunctions since an excessive load is applied to the bearing.



Mounting with a slide table (slider)

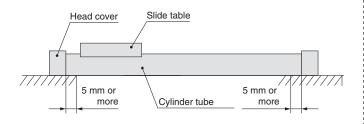
13.Consult with SMC when mounting in a cantilevered way.

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



Mounting in a cantilevered way

14. 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.



15 .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.

Handling

MY1B

MY1M

MY1C

MY1H

MY1HT

IMY1⊡W

MY2C

MY2H_

MY3A

MY3B

MY3M

▲ Caution

- **1. 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.
- 2. Avoid operation that causes negative pressure inside the cylinder.

Take precautions under operating conditions in which negative pressure is increased inside the cylinder by external forces or inertial forces. Air leakage may occur due to separation of the seal belt.

- **3. 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.
- 4. Do not operate with the stroke adjusting unit fixed in an intermediate position.

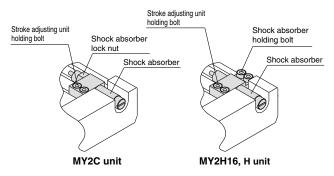
When the stroke adjusting unit is fixed in an intermediate position, slippage can occur depending on the amount of energy released at the time of an impact. In such cases, the use of the adjusting bolt mounting brackets, available per made-to-order specifications -X416 and -X417, is recommended. For other lengths, please consult with SMC.

<Securing the unit body>

The unit body is secured by equally tightening the two stroke adjusting unit holding bolts. (See drawings below.)

<Stroke adjustment of shock absorber> For MY2C and MY2H

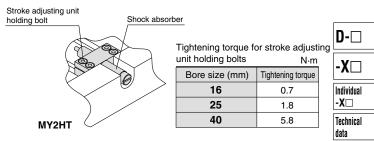
Loosen the shock absorber lock nut (shock absorber holding bolts for MY2H16, H unit), and adjust the stroke by rotating the shock absorber. After the adjustment, tighten the lock nut (holding bolts) to secure the shock absorber.



For MY2HT

₿SMC

Loosen the two unit holding bolts on the shock absorber side, rotate the shock absorber and adjust the stroke. After the adjustment, secure the shock absorber by tightening the unit holding bolts equally.





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Operating Environment

M Warning

1. Do not use in environments where the cylinder will come in contact with coolants, cutting oil, water drops, adhesive foreign particles, dust, etc., and do not operate the cylinder with compressed air that contains drainage and foreign matter.

Foreign matter or liquids on the cylinder interior or exterior can wash away the lubricating grease, which can lead to deterioration and damage of the dust seal band and seal materials, causing a danger of malfunction.

When operating in locations with exposure to water, oil drops, or dust, provide protection such as a cover to prevent direct contact with the cylinder, or mount the dust seal band surface downwards, and operate it with clean compressed air.

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

ACaution

1. Allowable operating cycle under the specifications set in this catalog is shown below.

1.2 million times RB08□□ 2 million times RB10□□ 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.

Centralized Piping Port Variations

A Caution

Head cover piping connection can be freely selected to best suit different piping conditions.

