Mechanically Jointed Rodless Cylinder Cam Follower Guide Type **MY2C** Series

ø16, ø25, ø40

How to Order



Ordering example

MY2C25-3000L-M9BW * Long stroke can be ordered the same as the standard stroke.

Note) Please be advised that with stroke 49 or less, there are cases where auto switch mounting is

not possible and the performance of the air cushion may decline.

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

		Electrical	light	Wiring	l	_oad volta	ge	Auto switc	h model	Lead	wire I	length	n (m)	Dro wirod						
Туре	Special function	entry	Indicator	(Output)	DC AC		Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	connector	Applica	ble load					
				3-wire (NPN)	vire (NPN)			M9NV	M9N	•	٠	٠	0	0	IC					
				3-wire (PNP)		5 V, 12 V		M9PV	M9P	•	٠	٠	0	0	circuit					
ے ہ				2-wire		12 V		M9BV	M9B	•	٠	٠	0	0	_					
ritc'				3-wire (NPN)		5 V 10 V		5 V 10 V		EV 10 V		M9NWV	M9NW	•	•		0	0	IC	Dalass
s p	Diagnostic indication	Grommet	Yes	3-wire (PNP)	24 V	24 V	_	M9PWV	M9PW	•	٠	٠	0	0	circuit	Relay,				
들	(2-color indicator)		2-wire 12 V	-	M9BWV	M9BW	•	٠		0	0	_	PLC							
s ar	Mater and states			3-wire (NPN)		5 V 10 V	-	M9NAV*1	M9NA*1	0	0	٠	0	0	IC					
	(2 color indicator)			3-wire (PNP)		5 V, 12 V		M9PAV*1	M9PA*1	0	0	٠	0	0	circuit					
				2-wire		12 V	-	M9BAV*1	M9BA*1	0	0	٠	0	0	_					
ed witch	Crommet Y		Yes	3-wire (NPN equivalent)	_	5 V	_	A96V	A96	•	-	•	_	_	IC circuit	_				
be to s		Gronnet			04.1/ 10.1/	100 V	A93V*2	A93	•	٠	٠	•	_	—	Relay,					
aut			No	2-wire	24 V	V 12 V 10 V	100 V or less	A90V	A90		—	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.

Consult with SMC regarding water resistant types with the above model numbers

*2 1 m type lead wire is only applicable to D-A93.

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

* Solid state auto switches marked with "O" are produced upon receipt of order.

(Example) M9NWM 1 m M 3 m L (Example) M9NWL

5 m Z (Example) M9NWZ

* There are other applicable auto switches than listed above. For details, refer to page 1398.

For details about auto switches with pre-wired connector, refer to pages 1648 and 1649.
Auto switches are shipped together (not assembled). (Refer to page 1398 for the details of auto switch mounting.)



Mechanically Jointed Rodless Cylinder Cam Follower Guide Type MY2C Series



Made to Order Specifications

Click here for details

Symbol

Specifications

Bore size (mm)	16	16 25					
Fluid		Air					
Action	Double acting						
Operating pressure range	0.15 to 0.8 MPa	0.1 to 0	.8 MPa				
Proof pressure		1.2 MPa					
Ambient and fluid temperature		5 to 60°C					
Cushion	Air	cushion, Shock absor	ber				
Lubrication	Ν	lot required (Non-lube	e)				
Stroke length tolerance	1000 or less ^{+1.8} 1001 to 3000 ^{+2.8} 0	2700 or less $^{+1.8}_{0}$,	2701 to 5000 ^{+2.8} ₀				
Port size	M5 x 0.8	Rc 1/8	Rc 1/4				

Piston Speed

Bore size (mm)	16	40	MY1H	
Without stroke adjustme	ent unit		(S ⁽¹⁾		
Stroke adjustment unit	L unit and H unit	-	's	MV1R	
Note 1) When exceeding the air	cushion stroke ranges	on page 1376, the	piston speed shou	ld be 100 to 200	
mm/s.	-		-		

Note 2) Use at a piston speed within the absorption capacity range. Refer to page 1376.

Stroke Adjustment Unit Specifications

Specifications

-XB22 Shock absorber soft type RJ series type

Bore size (m	m)	16	2	5	40		
Unit symbol		L	L H		L	н	
Shock absorber model		RB0806	RB1007	RB1412	RB1412	RB2015	
Stroke adjustment range	Without spacer	0 to -5.6	0 to -	-11.5	0 to -16		
by intermediate fixing With short spacer		-5.6 to -11.2	-11.5	to –23	-16 to -32		
spacer (mm)	With long spacer	-11.2 to -16.8	-23 to	-34.5	-32 to -48		

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

Stroke Adjustment Unit Symbol

	_			Right side stroke adjustment unit								
			Without	L: With absorbe	low load s er	shock	H: With high load shock absorber					
			unit		With short spacer	With long spacer		With short spacer	With long spacer			
	Wit	thout unit	Nil	SL	SL6	SL7	SH	SH6	SH7			
nit bke	E L: With low load shock		LS	L	LL6	LL7	LH	LH6	LH7			
stro nt L	absorber	With short spacer	L6S	L6L	L6	L6L7	L6H	L6H6	L6H7			
de		With long spacer	L7S	L7L	L7L6	L7	L7H	L7H6	L7H7			
t si ust	H: With high load shock absorber With short spacer		HS	HL	HL6	HL7	н	HH6	HH7			
Lefadj			H6S	H6L	H6L6	H6L7	H6H	H6	H6H7			
		With long spacer	H7S	H7L	H7L6	H7L7	H7H	H7H6	H7			

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

Shock Absorbers for L and H Units

Tuno	Stroke	В	ore size (mr	n)
туре	unit	16	25	40
Standard	L	RB0806	RB1007	RB1412
(Shock absorber/RB series)	н	_	RB1412	RB2015
Shock absorber/soft type	L	RJ0806H	RJ1007H	RJ1412H
RJ series mounted (-XB22)	н	_	RJ1412H	_

* The shock absorber service life is different from that of the MY2C 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

Intermediate adjustment Left side fixing space unit L unit Short spacer length Port Place the protruding section on the stroke adjusting unit side.

Stroke Example of L6L7 attachment



Shock Absorber Specifications

Мос	lel	RB 0806	RB 1007	RB 1412	RB 2015		
Max. energy al	osorption (J)	2.9	5.9	19.6	58.8		
Stroke absor	ption (mm)	6	7	12	15		
Max. collision s	speed (mm/s)	1500	1500	1500	1500		
Max. operating frequ	uency (cycle/min)	80	70	45	25		
Spring	Extended	1.96	4.22	6.86	8.34		
force (N)	Retracted	4.22	4.22 6.86 15.98				
Operating tempera	ature 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 RB Series Specific Product Precautions for the replacement period.



MY1B

MY1M

MY1C

MY1H MY1 HT MY1

MY2C MY2

H/HT MY3A

MY3B

MY3M

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MY2C Series

Theoretical Output

								(N)				
Bore	Piston	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)

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 \Box .

Note) Order auto switches separately.

Option



						(kg)
Bore size	Basic	Additional weight	Weight of	Side support	Stroke adju weight (stment unit per unit)
(mm)	weight	50 mm of stroke	moving parts	weight (per set)	L unit weight	H unit weight
16	1.05	0.13	0.34	0.01	0.03	_
25	2.59	0.29	0.97	0.02	0.06	0.09
40	8.78	0.67	3.09	0.04	0.17	0.23

Calculation: (Example) MY2C25G-300L

- Basic weight 2.59 kg
- Cylinder stroke 300 stroke
- Additional weight 0.29/50 stroke
- $2.59 + 0.29 \times 300/50 + 0.06 \times 2 \cong 4.45 \text{ kg}$
- Weight of L unit 0.06 kg







* Nuts are equipped on the cylinder body

Mechanically Jointed Rodless Cylinder Cam Follower Guide Type MY2C Series

Construction



* Seal kit includes 2, 4, 5, 5 and 2. Order the seal kit based on each bore size.

2

4

Tube gasket

O-ring

51

52

* Seal kit includes a grease pack (10 g).

When (④ and (⑤ 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)

SMC

-X□

Technical Data

ø16, ø25, ø40

Refer to page 1402 regarding port variations.

MY2C Bore size G – Stroke



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

Mechanically Jointed Rodless Cylinder Cam Follower Guide Type **MY2C Series**

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



Applicable cylinder	Е	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

High load 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

MY1B
MY1H
MY1B
MY1M
MY1C
MY1H
MY1 Ht
MY1 □W
MY2C
MY2 H/HT
MY3A My3b
MY3M

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D-

-X🗆

Technical Data



MY2C Series

Side Support

Side support MYC-S□A





Model	Applicable cylinder	Α	В	С	D	Е	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 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 weight 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.

A 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.



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





Mechanically Jointed Rodless Cylinder Linear Guide Type MY2H/HT Series

ø16, ø25, ø40

How to Order



DOIE SIZE	Standard Stroke	Internetiate stroke	Long stroke	stroke
16	50, 100, 150 200, 250, 300	Intermediate strokes of 51 to 599 mm (1 mm	Strokes of 601 to 1000 mm (1 mm increments) exceeding the standard stroke	1000
25, 40	350, 400, 450 500, 550, 600	increments) other than standard strokes	Strokes of 601 to 1500 mm (1 mm increments) exceeding the standard stroke	1500
.				

Ordering example

Intermediate stroke can be ordered the same as the standard stroke. MY2H16-60-M9BW

* Long stroke can be ordered the same as the standard stroke. MY2H25-800L-M9BW

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

		Flootricol		M/inin a	l	_oad voltag	je	Auto switc	h model	Lead	wire I	ength	n (m)	Dre wired						
Туре	Special function	Electrical	entry	ator	(Output)			10	Porpondioular	In line	0.5	1	3	5	connector	Applicat	ole load			
		onay	Indic	(Output)	1		AC	reiperiulculai		(Nil)	(M)	(L)	(Z)							
				3-wire (NPN)		EV 10.V		M9NV	M9N	٠		٠	0	0	IC					
				3-wire (PNP)		5 V, 12 V	5 V, 12 V	M9PV	M9P	٠	٠	٠	0	0	circuit					
٥÷				2-wire		12 V	1	M9BV	M9B	٠	•	٠	0	0	—					
vite	Diagnostic indication (2-color indicator)	Grommet]]			3-wire (NPN)		EV 10.V		M9NWV	M9NW	٠	•	٠	0	0	IC	IC
olid si uto sv			Yes	3-wire (PNP)	wire (PNP) 24 V 2-wire	24 V	_	M9PWV	M9PW	٠		•	0	0	circuit	Relay,				
				2-wire		12 V		M9BWV	M9BW	٠		٠	0	0	—	- FLC				
ສັນ									3-wire (NPN)	5 V 12 V	M9NAV*1	M9NA*1	0	0	٠	0	0	IC		
	(2 color indicator)									3-wire (PNP)		5 V, 12 V		M9PAV*1	M9PA*1	0	0	٠	0	0
				2-wire		12 V		M9BAV*1	M9BA*1	0	0	٠	0	0	—					
с,				3-wire		E V		A061/	100						IC					
wit		Crommet	Yes	(NPN equivalent)	_	— 5V	_	ASOV	A90	•	_	•	-	-	circuit	_				
lo s		Grommet		2 wire		101/ 1	100 V	A93V*2	A93	٠		٠		_	—	Relay,				
aut			No	2-wire	24 V	12 V	100 V or less	A90V	A90	•	—	\bullet	_	—	IC circuit	PLC				

*1 Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.

Consult with SMC regarding water resistant types with the above model numbers.

*2 1 m type lead wire is only applicable to D-A93

* 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

- (Example) M9NWL 3 m L
- $5\ m\ \cdots$ Z (Example) M9NWZ

There are other applicable auto switches than listed above. For details, refer to page 1398.

* For details about auto switches with pre-wired connector, refer to pages 1648 and 1649.
* Auto switches are shipped together (not assembled). (Refer to page 1398 for the details of auto switch mounting.)



Mechanically Jointed Rodless Cylinder Linear Guide Type MY2H/HT Series



Made to Order	Made to Order: Individual Specifications (For details, refer to page 1399)
Symbol	Specifications
-X168	Helical insert thread

Made to Order Specifications

Click here for details

Symbol	Specifications
-XB20	Stroke adjusting unit with adjusting bolt
-XB22	Shock absorber soft type RJ series type
-XC56	With knock pin holes

Specifications

Bore size (mm)	16 25 40						
Fluid		Air					
Action	Double acting						
Operating pressure range	0.15 to 0.8 MPa 0.1 to 0.8 MPa						
Proof pressure	1.2 MPa						
Ambient and fluid temperature		5 to 60°C					
Cushion	Air	cushion, Shock absor	rber				
Lubrication	Not required (Non-lube)						
Stroke length tolerance	+1.8						
Port size	M5 x 0.8	Rc 1/8	Rc 1/4				

Piston Speed

Symbol	Specifications							1				
-YB20	Stroke adjusting unit with adjusting bolt		Bore size (n	nm)	16	25	40	MY				
	Other and a start	Without stroke adjustment unit			-	S Note 1)						
-XB22	Shock absorber soft type HJ series type		Stroke adjustment unit	Lunit and Hunit	-	100 to 1500 mm/s						
-XC56	With knock pin holes				4070 11.							
	Note 1) When exceeding the air cushion stroke ranges on page 1376, 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 1376.											
Stroke	Adjustment Unit Specif	ficati	ons					. MV				

Bore size (mm)			1	6	2	5	40		
Unit symbol			L	Н	L	Н	L		
Shock absorber model MY2H MY2HT		MY2H	RB0806	RB0806 RB1007		RB1412	RB1412	RB2015	
		MY2HT	RB1007 RB1412		RB1412 RB2015		RB2015	RB2725	
Stroke adjustment	Without	spacer	0 to -5.6		0 to -	-11.5	0 to -16		
range by intermediate fixing spacer (mm)	With sho	ort spacer	–5.6 to	–11.2	-11.5	to –23	-16 to -32		
	With Ion	g spacer	-11.2 te	o –16.8	–23 to	-34.5	-32 to -48		

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

Stroke Adjustment Unit Symbol

	_			Right side stroke adjustment unit									
			Without	L: With absorbe	low load s r	shock	H: With high load shock absorber						
			unit		With short spacer	With long spacer		With short spacer	With long spacer				
	Wit	thout unit	Nil	SL	SL6	SL7	SH	SH6	SH7				
ske	L: With lo	w load shock	LS	L	LL6	LL7	LH	LH6	LH7				
stro nt L	absorber	With short spacer	L6S	L6L	L6	L6L7	L6H	L6H6	L6H7				
de		With long spacer	L7S	L7L	L7L6	L7	L7H	L7H6	L7H7				
t si ust	H: With hi	H: With high load shock HS absorber With short spacer H6S		HL	HL6	HL7	Н	HH6	HH7				
Lef adj	absorber			H6L	H6L6	H6L7	H6H	H6	H6H7				
		With long spacer	H7S	H7L	H7L6	H7L7	H7H	H7H6	H7				



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

Shock Absorbers for L and H Units

Madal	Time	Stroke	Bore size (mm)						
woder	туре	unit	16	25	40				
	Standard	L	RB0806	RB1007	RB1412				
MVOL	(Shock absorber/RB series)	Н	RB1007	RB1412	RB2015				
	Shock absorber/soft type	L	RJ0806H	RJ1007H RJ141	RJ1412H				
	RJ series mounted (-XB22)	Н	RJ1007H	RJ1412H	_				
	Standard	L	RB1007	RB1412	RB2015				
MVOUT	(Shock absorber/RB series)	н	RB1412	RB2015	RB2725				
	Shock absorber/soft type	L	RJ1007H	RJ1412H	_				
	RJ series mounted (-XB22)	Н	RJ1412H	_	_				

* The shock absorber service life is different from that of the MY2H/HT 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.

Shock Absorber Specifications

Moc	lel	RB 0806	RB 1007	RB 1412	RB 2015	RB 2725					
Max. energy al	osorption (J)	2.9	5.9	19.6	58.8	147					
Stroke absor	ption (mm)	6	7	12	15	25					
Max. collision s	speed (mm/s)	1500	1500	1500	1500	1500					
Max. operating frequ	uency (cycle/min)	80	70	45	25	10					
Spring	Extended	1.96	4.22	6.86	8.34	8.83					
force (N)	Retracted	4.22	6.86	15.98	20.50	20.01					
Operating tempera	ature 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 RB Series Specific Product Precautions for the replacement period.

D-

-X□

Technical



Theoretical Output

_									(N)								
ſ	Bore	Piston		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)

Replacement Parts

Drive Unit (Cylinder) Replacement Part No.

Model Bore size (mm)	МҮ2Н	MY2HT
16	MY2BH16G	- Stroke
25	MY2BH25□G	- Stroke
40	MY2BH40⊟G	- Stroke

Enter a symbol for port thread type inside \Box .

Note) Order auto switches separately.

Option



Calculation: (Example) MY2H25G-300L

Basic weight 2.35 kg

Cylinder stroke 300 stroke

Additional weight 0.42/50 stroke

 $2.35 + 0.42 \times 300/50 + 0.06 \times 2 \cong 4.99 \text{ kg}$

Weight of L unit 0.06 kg



* Nuts are equipped on the cylinder body.



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





Construction





Component Parts

Description	Material	Note
Cylinder tube	Aluminum alloy	Hard anodized
Body	Aluminum alloy	Anodized
Head cover WR	Aluminum alloy	Hard anodized
Head cover WL	Aluminum alloy	Hard anodized
Slide table	Aluminum alloy	Hard anodized
Piston yoke	Aluminum alloy	Hard anodized
Piston	Aluminum alloy	Chromated
Wear ring	Special resin	
Belt separator	Special resin	
Parallel pin	Stainless steel	
Cushion ring	Aluminum alloy	Anodized
Cushion needle	Rolled steel	Nickel plated
Belt clamp	Special resin	
Guide	—	
End cover	Aluminum alloy	Hard anodized
Bearing	Special resin	
End plate	Aluminum alloy	Hard anodized
Stopper	Carbon steel	Nickel plated after quenching
Top cover	Stainless steel	
	Description Cylinder tube Body Head cover WR Head cover WL Slide table Piston yoke Piston Wear ring Belt separator Parallel pin Cushion ring Cushion needle Belt clamp Guide End cover Bearing End plate Stopper Top cover	DescriptionMaterialCylinder tubeAluminum alloyBodyAluminum alloyHead cover WRAluminum alloyHead cover WLAluminum alloySide tableAluminum alloySide tableAluminum alloyPiston yokeAluminum alloyPiston yokeAluminum alloyPistonAluminum alloyWear ringSpecial resinBelt separatorSpecial resinParallel pinStainless steelCushion ringAluminum alloyGuide—End coverAluminum alloyBearingSpecial resinEnd plateAluminum alloyStopperCarbon steelTop coverStainless steel

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

Mechanically Jointed Rodless Cylinder Linear Guide Type MY2H/HT Series

Double axis type: MY2HT





⊕ 34)

Replacement Parts: Seal Kit

No.	Description	Qty.	MY2H16G/MY2HT16G	MY2H25G/MY2HT25G	MY2H40G/MY2HT40G			
14	Seal belt	1	MY16-16C-Stroke	MY25-16C-Stroke	MY40-16C-Stroke			
15	Dust seal band	1	MY2H16-16B-Stroke	MY2H25-16B-Stroke	MY2H40-16B-Stroke			
40	O rima	0	KA00309	KA00309	KA00320			
43	0-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	MY2B40-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.

size. * Seal kit includes a grease pack (10 g). When (④ and (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)

MY1B

MY1H

MY1B

MY1M

MY1C

MY1H

MY1 Ht

MY1 □W

MY2C

MY2 H/H1

MY3A My3b

MY3M



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

Refer to page 1402 regarding port variations.

MY2H Bore size G - Stroke



wodei	PA	РВ	PC	PD	PE	PF	PG	РН	PP	Q	QQ	QW	ĸ	KK	RW	55	11	U	UU	vv	X	XX	Y	Z
MY2H16G	40	40	7.2	2.8	3.7	3.5	4	5.1	5.3	152	16.4	40	5	5.3	40	9.7	12.5	4	3	10.5	6	12	5	160
MY2H25G	60	60	8.2	6.6	2.7	5.5	6	7.5	8	198	20.4	60	5	8.5	50	14	19.3	5	4.4	15.3	7.5	14	5	210
MY2H40G	100	70	5.5	8.5	5	17	9	9.5	16	312	25.5	57	8	11	53.5	21.5	35.4	6	2	29	9	23	8	330
															_									

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

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



Applicable cylinder	E	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

High load 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

MY1H

MY1B

MY1M

MY1C

MY1H

MY1 Ht

MY1 □W

MY2C

MY2 H/HT

MY3A My3B

MY3M



Double Axis Type: $\emptyset 16, \emptyset 25, \emptyset 40$

Refer to page 1402 regarding port variations.

MY2HT Bore size G – Stroke



Model	Α	В	С	G	GB	Н	L	,	J	LA	LB	LD	LE	(LL)	LW	М	М	М	Ν	NC	NE	NH	NT
MY2HT16G	80	9.5	5.4	8.5	17	28	80	M4 x	M4 x 0.7		87.4	5.5	5	40	120	9	M5 :	x 0.8	20	14	27	3	4.7
MY2HT25G	105	14	8.6	10.7	19.5	37	110.8	M6 x	M6 x 1		124.7	9	6	49.6	176	12	M8 :	M8 x 1.25		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 :	x 1.5	40	32.4	56.5	5	9
Model	NV	NW	NX	F	Ρ	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 x	x 0.8	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
					3030		_																

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 adjustment unit Low load shock absorber MY2HT Bore size G - Stroke L





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

High load shock absorber

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MY2HT Bore size G - Stroke H

Stroke adjustment unit

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Applicable cylinder	E	EA	EB	EC	EY	FA	S	SD	Т	TT	W	Shock absorber model
MY2HT16	14.4	7	21	8	27	46.5	67.3	27.3	12	5.6 (Max. 11.2)	28.6	RB1412
MY2HT25	19.7	10.7	26.6	11.2	36	64.8	73.2	23.6	15	4.9 (Max. 16.4)	37.2	RB2015
MY2HT40	29.1	15.1	37	17.2	57	74.5	99	24	25	5.9 (Max. 21.9)	51.6	RB2725



MY1B

MY1H

MY1B

MY1M

MY1C

MY1H

MY1 Ht

MY1 □W

MY2C

MY2 H/H1

MY3A My3b

MY3M

1397 Best Pneumatics 2-1 Ver.6

MY2 Series Auto Switch Mounting

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

Series model	Α	В	Operating range
MY2C16	44	116	
MY2H16	46	114	
MY2HT16	70	90	11
MY2C/H/HT25	54	156	
MY2C/H/HT40	85	245	
Series model	С	D	Operating range
MY2C/H/HT16	27.6	132.4	6.5
MY2C/H/HT25	69	141	
MY2C/H/HT40	90.2	239.8	

D-M9⁻, D-M9⁻V, D-M9⁻W, D-M9⁻WV, D-M9⁻A, D-M9⁻AV

Series model	Α	В	Operating range
MY2C16	48	112	
MY2H16	50	110	
MY2HT16	74	86	8.5
MY2C/H/HT25	58	152	
MY2C/H/HT40	89	241	
Series model	С	D	Operating range
MY2C/H/HT16	31.6	128.4	4
MY2C/H/HT25	73	137	0.5
MY2C/H/HT40	94.2	235.8	8.5

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

Besides the models listed in How to Order, the following auto switches are applicable. * For solid state auto switches, auto switches with a pre-wired connector are also available. Refer to pages 1648 and 1649 for details. * Normally closed (NC = b contact) solid state auto switches (D-M9□E(V)) are also available. Refer to page 1592-1 for details.

MY2 Series Made to Order: Individual Specifications

Please contact SMC for detailed dimensions, specifications and lead times.



1 Helical Insert Thread Specifications



Helical insert thread is used for the slide table mounting thread, the thread size is the same as the standard model.



Example) MY2H40G-300L-A93-X168

MY1B
MY1H
MY1B
MY1M
MY1C
MY1H
MY1 Ht
MY1 □W
MY2C
MY2 H/HT
MY3A My3b
MY3M

