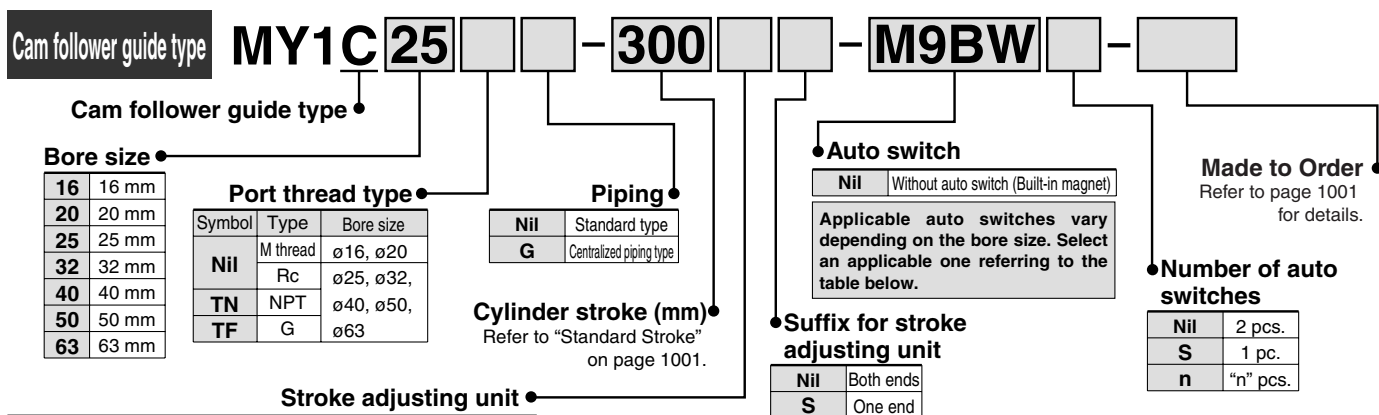


Mechanically Jointed Rodless Cylinder Cam Follower Guide Type

Series MY1C

ø16, ø20, ø25, ø32, ø40, ø50, ø63

How to Order



Nil	Without adjusting unit
A	With adjusting bolt
L	With low load shock absorber + Adjusting bolt
H	With high load shock absorber + Adjusting bolt
AL	With one A unit and one L unit
AH	With one A unit and one H unit each
LH	With one L unit and one H unit each

Note) MY1C16 is not available with H unit.

Shock Absorbers for L and H Units

Unit no.	Bore size (mm)	16	20	25	32	40	50	63
L unit		RB0806		RB1007		RB1412		RB2015
H unit		—	RB1007	RB1412		RB2015		RB2725

Applicable Auto Switch/Refer to pages 1263 to 1371 for further information on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model				Lead wire length (m)				Pre-wired connector	Applicable load		
					DC	AC	Perpendicular		In-line		0.5 (Nil)	1 (M)	3 (L)	5 (Z)				
							ø16, ø20	ø25 to ø63	ø16, ø20	ø25 to ø63								
Solid state switch	—	Grommet	Yes	3-wire (NPN)	24V	5V, 12V	—	M9NV ** [Y69A]		M9N ** [Y59A]		●	● [—]	●	○	○	IC circuit	Relay, PLC
	3-wire (PNP)			M9PV ** [Y7PV]				M9P ** [Y7P]		●	● [—]	●	○	○				
	2-wire			M9BV ** [Y69B]				M9B ** [Y59B]		●	● [—]	●	○	○	—			
	3-wire (NPN)			5V, 12V				M9NWNV ** [Y7NWNV]		M9NWN ** [Y7NWN]		●	● [—]	●	○	○	IC circuit	
	3-wire (PNP)							M9PNWNV ** [Y7PNWNV]		M9PNW ** [Y7PNW]		●	● [—]	●	○	○		
	2-wire							M9BNWNV ** [Y7BNWNV]		M9BNW ** [Y7BNW]		●	● [—]	●	○	○		
	Reed switch	—	Grommet	Yes	3-wire (NPN equivalent)	—	5V	—	A96V	—	A96	Z76	●	—	●	—	—	IC circuit
2-wire					24V	12V	100V	A93V	—	A93	—	●	—	●	—	—	—	
				100V or less				A90V	—	A90	Z80	●	—	●	—	—	—	IC circuit

* Lead wire length symbols: 0.5 m Nil (Example) M9NW
1 m M (Example) M9NWM
3 m L (Example) M9NWL
5 m Z (Example) M9NWX

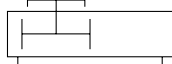
* Solid state auto switches marked with "○" are produced upon receipt of order.
** D-M9□□□ type cannot be mounted on ø40.
Select auto switches in brackets.

* There are other applicable auto switches than listed above. For details, refer to page 1053.
* For details about auto switches with pre-wired connector, refer to pages 1328 and 1329.
* Auto switches are shipped together (not assembled).

Mechanically Jointed Rodless Cylinder Cam Follower Guide Type **Series MY1C**



JIS Symbol



Specifications

Bore size (mm)	16	20	25	32	40	50	63
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						
Lubrication	Non-lube						
Stroke length tolerance	1000 or less $^{+1.8}_0$ 1001 to 3000 $^{+2.8}_0$		2700 or less $^{+1.8}_0$, 2701 to 5000 $^{+2.8}_0$				
Piping port size	Front/Side port	M5 x 0.8		Rc 1/8		Rc 1/4	Rc 3/8
	Bottom port	ø4		ø5	ø6	ø8	ø10 ø11

Stroke Adjusting Unit Specifications

Bore size (mm)	16		20			25			32			40			50			63		
Unit symbol	A	L	A	L	H	A	L	H	A	L	H	A	L	H	A	L	H	A	L	H
Configuration Shock absorber model	With adjusting bolt	RB 0806 + with adjusting bolt	With adjusting bolt	RB 0806 + with adjusting bolt	RB 1007 + with adjusting bolt	With adjusting bolt	RB 1007 + with adjusting bolt	RB 1412 + with adjusting bolt	With adjusting bolt	RB 1412 + with adjusting bolt	RB 2015 + with adjusting bolt	With adjusting bolt	RB 1412 + with adjusting bolt	RB 2015 + with adjusting bolt	With adjusting bolt	RB 2015 + with adjusting bolt	RB 2725 + with adjusting bolt	With adjusting bolt	RB 2015 + with adjusting bolt	RB 2725 + with adjusting bolt
Fine stroke adjustment range (mm)	0 to -5.6		0 to -6			0 to -11.5			0 to -12			0 to -16			0 to -20			0 to -25		
Stroke adjustment range	When exceeding the stroke fine adjustment range: Utilize a made-to-order specifications "-X416" and "-X417".																			

* 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 absorption (J)		2.9	5.9	19.6	58.8	147
Stroke absorption (mm)		6	7	12	15	25
Max. collision speed (mm/s)		1500				
Max. operating frequency (cycle/min)		80	70	45	25	10
Spring force (N)	Extended	1.96	4.22	6.86	8.34	8.83
	Retracted	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 MY1C cylinder depending on operating conditions. Refer to the RB Series Specific Product Precautions for the replacement period.



Made to Order Specifications
(For details, refer to pages 1395 to 1565.)

Symbol	Specifications
—XB11	Long stroke
—XC56	With knock pin hole
—XC67	NBR rubber lining in dust seal band
—X168	Helical insert thread specifications
—X416	Holder mounting bracket I
—X417	Holder mounting bracket II

Standard Stroke

Bore size (mm)	Standard stroke (mm) *	Maximum manufacturable stroke (mm)
16	100, 200, 300, 400, 500, 600, 700 800, 900, 1000, 1200, 1400, 1600 1800, 2000	3000
20, 25, 32, 40		5000
50, 63		

* Strokes are manufacturable in 1 mm increments, up to the maximum stroke. However, when exceeding a 2000 mm stroke, specify "-XB11" at the end of the model number.

Piston Speed

Bore size (mm)		16 to 63
Without stroke adjusting unit		100 to 1000 mm/s
Stroke adjusting unit	A unit	100 to 1000 mm/s ⁽¹⁾
	L unit and H unit	100 to 1500 mm/s ⁽²⁾

Note 1) Be aware that when the stroke adjusting range is increased by manipulating the adjusting bolt, the air cushion capacity decreases. Also, when exceeding the air cushion stroke ranges on page 1004, 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 1004.

MY1B

MY1M

MY1C

MY1H

MY1HT

MY1□W

MY2C

MY2H□

MY3A

MY3B

MY3M

D-□

-X□

Individual
-X□

Technical
data

MY1C16 to 63

Component Parts

No.	Description	Material	Note
1	Cylinder tube	Aluminum alloy	Hard anodized
2	Head cover WR	Aluminum alloy	Painted
3	Head cover WL	Aluminum alloy	Painted
4	Slide table	Aluminum alloy	Electroless nickel plated
5	Piston yoke	Aluminum alloy	Chromated
6	Piston	Aluminum alloy	Chromated
7	Wear ring	Special resin	
8	Belt separator	Special resin	
9	Guide roller	Special resin	
10	Guide roller shaft	Stainless steel	
11	Coupler	Sintered iron material	
12	Cushion ring	Brass	
13	Cushion needle	Rolled steel	Nickel plated
14	Belt clamp	Special resin	
17	Rail	Hard steel wire	
18	End spacer	Special resin	
19	End clamp	Stainless steel	Rubber lining (ø25 to ø40)
20	Cam follower cap	Special resin	(ø25 to ø40)
21	Cam follower	—	
22	Eccentric gear	Stainless steel	
23	Gear bracket	Stainless steel	
24	Adjustment gear	Stainless steel	
25	Retaining ring	Stainless steel	

No.	Description	Material	Note
26	End Cover	Special resin	
28	Backup plate	Special resin	
29	Stopper	Carbon steel	Nickel plated
30	Spacer	Stainless steel	
35	Spring pin	Carbon tool steel	Black zinc chromated
38	Hexagon socket head set screw	Chromium molybdenum steel	Black zinc chromated
39	Hexagon socket head cap screw	Chromium molybdenum steel	Nickel plated
40	Hexagon socket button head screw	Chromium molybdenum steel	Nickel plated
41	Hexagon socket head set screw	Chromium molybdenum steel	Black zinc chromated/Nickel plated
42	Round head Phillips screw	Chromium molybdenum steel	Nickel plated
43	Hexagon socket head taper plug	Carbon steel	Nickel plated
44	Magnet	—	
45	Magnet holder	Special resin	
46	Hexagon socket head cap screw	Chromium molybdenum steel	Nickel plated
47	Hexagon socket head taper plug	Carbon steel	Nickel plated
49	Type CR retaining ring	Spring steel	
50	Head plate	Aluminum alloy	Hard anodized (ø63)
52	Side scraper	Special resin	(ø50 to ø63)
54	Bushing	Aluminum alloy	(ø16 to ø20)
55	Port cover	Special resin	(ø25 to ø40)
56	Lube retainer	Special resin	(ø16 to ø20)

Replacement Part: Seal Kit

No.	Description	Qty.	MY1C16	MY1C20	MY1C25	MY1C32	MY1C40	MY1C50	MY1C63
15	Seal belt	1	MY16-16A-Stroke	MY20-16A-Stroke	MY25-16A-Stroke	MY32-16A-Stroke	MY40-16A-Stroke	MY50-16A-Stroke	MY63-16A-Stroke
16	Dust seal band	1	MY16-16B-Stroke	MY20-16B-Stroke	MY25-16B-Stroke	MY32-16B-Stroke	MY40-16B-Stroke	MY50-16B-Stroke	MY63-16B-Stroke
34	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	C4	C4
52	Side scraper	2	—	—	—	—	—	MYM50-15CK0502B	MYM63-15CK0503B
27	Scraper	2							
31	Piston seal	2							
32	Cushion seal	2	MY1M16-PS	MY1M20-PS	MY1M25-PS	MY1M32-PS	MY1M40-PS	MY1M50-PS	MY1M63-PS
33	Tube gasket	2							
48	O-ring	4							

* Seal kit includes 27, 31, 32, 33 and 48. Order the seal kit based on each bore size.

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

When 15 and 16 are shipped independently, a grease pack is included. (10 g per 1000 strokes)

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)

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 41.

A: Black zinc chromated → MY□□-16B-stroke, B: Nickel plated → MY□□-16BW-stroke

MY1B

MY1M

MY1C

MY1H

MY1HT

MY1□W

MY2C

MY2H□

MY3A

MY3B

MY3M

D-□

-X□

Individual

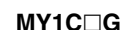
-X□

Technical data

Series MY1C

Refer to page 1056 regarding centralized piping port variations.

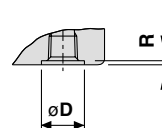
Stroke



(mm)

“P” indicates cylinder supply ports.

(mm)



**Bottom ported (ZZ)
(Applicable O-ring)**

Hole Size for Centralized Piping on the Bottom

	C9
	C11.2

(Machine the mounting side to the dimensions below.)

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