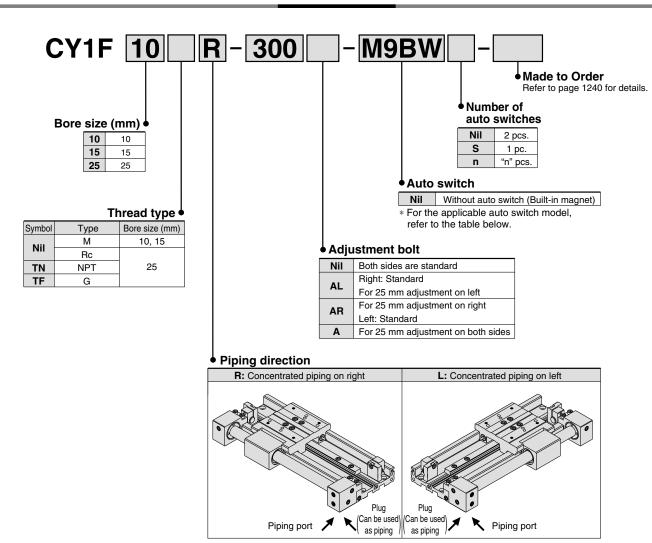
Magnetically Coupled Rodless Cylinder: Low Profile Guide Type

Series CY1F ø10, ø15, ø25

How to Order



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

Туре	Special function	Electrical entry	Indicator light	Wiring (output)	Load voltage		Auto switch model		Lead wire length (m)			(m)	Dro wired			
					D	C	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	Pre-wired connector	Applicable load	
Solid state switch		- Grommet Ye		3-wire (NPN)	24 V	5 V,12 V	12 V	M9NV	M9N	•	•	•	0	0	IC circuit	
				3-wire (PNP)				M9PV	M9P	•	•	•	0	0	IC Circuit	
			Yes	2-wire		12 V		M9BV	′ M9B • •	•	0	0	_	Relay,		
	Diagnostic	Grommet		3-wire (NPN)		5 V,12 V		M9NWV	M9NW	•	•	•	0	0	IC circuit	PLC
	indication			3-wire (PNP)				M9PWV	M9PW	•	•	•	0	0		
	(2-color display)			2-wire		12 V		M9BWV	M9BW	•	•	•	0	0	_	
Reed switch		Grommet	Yes	3-wire (NPN equiv.)	_	5 V	_	A96V	A96	•	-	•	_	•	IC circuit	_
				2-wire 24 V	24.1/	24 V 12 V	100 V	A93V	A93	•	_	•	_	•	_	Relay,
			No		24 V		12 V 100 V or less	A90V	A90	•	_	•	_	•	IC circuit	PLC

^{*} Lead wire length symbols: 0.5 m Nil (Example) M9NW 1 m M (Example) M9NWM



D-□

CY3B CY3R

CY1S

CY1L

CY1H

CY1F

CYP

-X□

Individual Technical

⁽Example) M9NWL (Example) M9NWZ

^{*} Solid state auto switches marked with a "O" symbol are produced upon receipt of order.

For details about auto switches with pre-wired connector, refer to pages 1328 and 1329.

^{*} Normally closed (NC = b contact) solid state auto switches (D-F9G/F9H types) are also available. Refer to page 1290 for details. * The auto switch is shipped together, but not assembled.

Series CY1F



Made to Order Specifications (For details, refer to pages 1401 and

Symbol	Specifications
-XB10	Intermediate stroke (Using exclusive body)
-XB11	Long stroke

Specifications

Bore size (mm)	10	15	25			
Fluid	Air					
Lubrication	Non-lube					
Action	Double acting					
Maximum operating pressure (MPa)	0.7					
Min. operating pressure (MPa)	0.2					
Proof pressure (MPa)	1.05					
Ambient and fluid temperature (°C)	-10 to 60					
Piston speed (mm/s)	50 to 500					
Cushion	Built-in shock absorber					
Stroke length tolerance (mm)	0 to 250st: +1.0	251 to 1000st: +1.4	1001st to: +1.8			
Stroke adjustment movable range (mm) Note 1)	-1.2	-1.4 to 0.6				
Piping type	Centralized piping					
Port size Note 2)	M5 :	Rc 1/8				

Note 1) The stroke adjustment movable range in the above table is that for the standard

adjustment bolt. For more information, please refer to page 1247.

Note 2) With Ø25, piping screws can be selected by the customer. (Refer to "How to Order".)

Shock Absorber Specifications

Applicable bore	size (mm)	10, 15	25		
Shock absorbe	r model	RB0805-X552	RB1006-X552		
Max. energy abs	orption (J)	0.98	3.92		
Stroke absorpti	on (mm)	5	6		
Max. impact spe	eed (m/s) Note 1)	0.05 to 5			
Max. operating freq	uency (cycle/min)	80	70		
O	When extended	1.96	4.22		
Spring force (N)	When retoacted	3.83	6.18		
Mass (g)		15	25		

Note 1) Represents the maximum absorption energy per cycle. Thus, the operation frequency can be increased with the absorption energy.

Note 2) The shock absorber service life is different from that of the CY1F cylinder depending on operating conditions. Refer to the Specific Product Precautions for the replacement period.

Standard Stroke

Bore size (mm)	Standard stroke (mm)	Maximum manufacturable stroke (mm)		
10	10 50, 100, 150, 200, 250, 300			
15	50, 100, 150, 200, 250, 300, 350, 400, 450, 500	750		
25	100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600	1200		



^{*} The stroke is available in 1 mm increments with the maximum stroke as the upper limit. For a stroke in the standard stroke range, suffix the part number with -XB10. If the stroke does not fall within the standard stroke range, suffix the part no. with -XB11. Refer to the Made to Order Specifications on pages 1401 and 1405.

Magnetic Holding Force

			Unit: N
Bore size (mm)	10	15	25
Magnetic holding force	53.9	137	363

