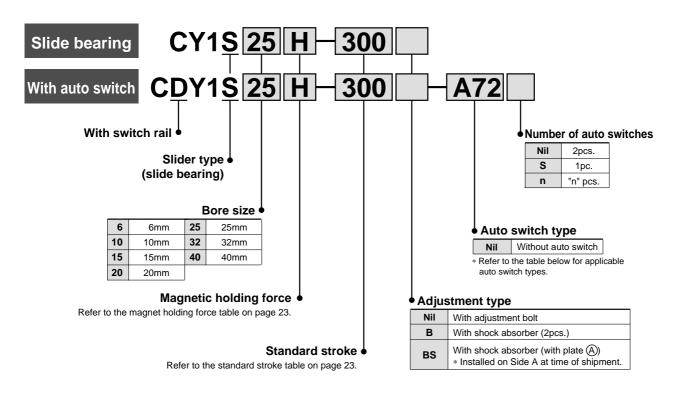
Magnetic Rodless Cylinder

Series CY1S Slider Type/Slide Bearing

How to Order



Applicable auto switch types / Refer to "Auto Switch Guide" (E274-A) for further details on auto switch units. Refer to pages 60 and 61 for auto switch circuit diagrams.

			ight	5		Load vol	tage	Auto sw	itch no.	Lead wir	e lenç	gth (m	Note 1)		
Туре	Special function	Electrical entry	Indicator light	Wiring	DC		AC	Electrical en	try direction	0.5 (Nil)	3	5	None	Applica	ble load
				(output)			V	Vertical	Lateral		(L)		(N)		
Ę			Yes	3 wire (NPN equiv.)	-	5V	-	-	A76H	•	•	_	_	IC circuit	_
switch		Grommet	163		_	_	200V	A72		•	•	-	_		
S	_	0.0				12V	100V	A73	A73H	•	•	•	_	i ⁻ I.	
Reed			No	2 wire	041/	5V, 12V	100V or less	A80	80 A80H	•	•	-	-	IC circuit PLC	
ĕ		Connector	Yes 24V 12V - A73C -	•	•	•	•	_	- = 0						
		Connector	No			5V, 12V	24Vor less	A80C	_	•	•	•	•	IC circuit	
	-			3 wire (NPN)		5\/ 40\/		F7NV	F79	•	•	0	_	IC circuit	
		Grommet		3 wire (PNP)		5V, 12V		F7PV F7P F7BV J79	•	•	0	_	ic circuit		
ح				2 wire	2 wire	12V			J79	•	•	0	_	_	
switch		Connector		2 WIIE		120		J79C	-	•	•	•	•		
	5			3 wire (NPN)		5V, 12V		F7NWV	F79W	•	•	0	_	IC airauit	
state	Diagnostic indication (2 color indicator)		Yes	3 wire (PNP)	24V			_	F7PW	•	•	0	_	IC circuit	Relay
<u>s</u>	(2 color indicator)		. 00	2 wire	24 V	12V	_	F7BWV	J79W	•	•	0	_		PLC
Solid	Water resistant (2 color indicator)	Grommet		2 wire		120		_	F7BA	_	•	0	-	_	
Š	With timer			3 wire (NPN)		EV 40V		-	F7NT	-	•	0	-	IC airauit	
	With diagnostic output (2 color indicator)					5V, 12V		_	F79F	•	•	0	_	IC circuit	
	Latch type with diagnostic output (2 color indicator)			4 wire (NPN)	-		-	Note 3)	•	•	0	_	-		

Note 1) Lead wire length symbol 0.5m Nil (Example) A 80C

3m L (Example) A80CL 5m Z (Example) A80CZ

None N (Example) A80CN

Note 2) Solid state auto switches marked with a "O" are produced upon receipt of order.

Note 3) Type D-F7LF cannot be mounted on bore sizes ø6 and ø10.



Load can be directly mounted
Strokes available up to
1500mm
Long life with
no external leakage
With auto switches
and shock absorbers

Models

Туре	Bearing type	Model	Bore size (mm)	Auto switch model	Adjustable type	
Slider type	Slide bearing	CY1S	6, 10, 15, 20, 25, 32, 40	D-A7, A8 D-F7, J7	With adjustment bolt With shock absorber	

Specifications

1MPa: Approx.10.2kgf/cm²

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Fluid	Air
Proof pressure	1.05MPa {10.7kgf/cm²}
Max. operating pressure	0.7MPa {7.1kgf/cm²}
Min. operating pressure	0.18MPa {1.8kgf/cm²}
Ambient & fluid temperature	−10 to 60°C
* Piston speed	50 to 400mm/s
Cushion	Rubber bumpers at both ends
Lubrication	Non-lube
Stroke length tolerance	0 to 250st: ^{+1.0} , 251 to 1000st: ^{+1.4} , 1001st to: ^{+1.8}
Mounting orientation	Unrestricted

^{*} In the case of a model with auto switch (CDY1S) where an auto switch is mounted at an intermediate position, the maximum detectable piston speed is controlled by the response time of the load (relays, sequence controller, etc.).

Standard Stroke Table

Bore size (mm)	Standard stroke (mm)	Maximum available stroke (mm)
6	50, 100, 150, 200	300
10	50, 100, 150, 200, 250, 300	500
15	50, 100, 150, 200, 250, 300, 350 400, 450, 500	750
20		1000
25 32	100, 150, 200, 250, 300, 350 400, 450, 500, 600, 700, 800	1500
40	100, 150, 200, 250, 300, 350 400, 450, 500, 600, 700, 800 900, 1000	1500

Principle Materials

Description	Material	Note		
Plate A, B	Aluminum alloy	Hard anodized		
Cylinder tube	Stainless steel	-		
Guide shaft A, B	Carbon steel	Hard chrome plated		
Magnet	Rare earth magnet	-		
Slide block	Aluminum alloy	Hard anodized		

Magnetic Holding Force (N)

1N: Approx. 0.102kgf

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Bore size (mm)		6	10	15	20	25	32	40
Holding force type	H type	19.6	53.9	137	231	363	588	922
Holding force type	L type	_	_	81.4	154	221	358	569

Amount of Adjustment for Adjustment Bolt and Shock Absorber

Bore size	Adjustment bolt amount of	Shock absorber amount of adjustment (mm)			
(mm)	adjustment (both sides) (mm)	Plate A side	Plate B side		
6	12	17	11		
10	11	14	6		
15	7	14	4		
20	11	36	27		
25	10	12	3		
32	11	33	23		
40	9	32	17		

^{*} Since the cylinder is in an intermediate stop condition when stroke adjustment is performed, use caution regarding the operating pressure and the kinetic energy of

Weight Table

								(kg)
Number of m	Bore size (mm)	6	10	15	20	25	32	40
Basic	CY1S□H	0.27	0.48	0.91	1.48	1.84	3.63	4.02
	CY1S□L	_	_	0.85	1.37	1.75	3.48	3.84
Additional weight per 50mm of stroke		0.044	0.074	0.104	0.138	0.172	0.267	0.406

Calculation method/Example: CY1S32H-500 Basic weight ... 3.63kg Additional weight 0.267/50st Cylinder stroke 500 $3.63 + 0.267 \times 500 \div 50 = 6.3$ kg

With shock absorber

Refer to page 30 for details regarding Series CY1S with shock absorber.