

Air cylinder

Rotary actuator

Air gripper

Directional control
valve

Flow control
equipment

Filter, Pressure
control equipment

Fittings & Tubing

Air preparation
equipment

Pressure switch

Clean gas filter

Series 12-CY3B

Magnetic rodless cylinder
 ø6, ø10, ø15, ø20, ø25, ø32, ø40 ø50, ø63

How to Order

Clean series
 12 — Special treatment on sliding part

Bore size (mm)

12 - CY3B 15 - 300

Cylinder stroke (mm)

Port type

Symbol	Type	Bore size
Nil	M3 x 0.5	6
	M5 x 0.8	10, 15
	Rc	20, 25, 32, 40
TN	NPT	50, 63
TF	G	

Model

Model	Bore size (mm)	Port size	Lubrication	Standard stroke (mm)	Maximum manufacturable stroke	Cushion	
						Rubber	Air
12-CY3B6	6	M3 x 0.5	Non-lube	50, 100, 150, 200	300	○ (Both sides)	—
12-CY3B10	10	M5 x 0.8		50, 100, 150, 200, 250, 300	500		
12-CY3B15	15			50, 100, 150, 200, 250, 300, 350, 400, 450, 500	1000		
12-CY3B20	20			Rc1/8 NPT1/8 G1/8	100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800		
12-CY3B25	25						
12-CY3B32	32						
12-CY3B40	40	Rc1/4 NPT1/4 G1/4		100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000			
12-CY3B50	50						
12-CY3B63	63						

Note 1) Stroke exceeding the standard stroke but below the maximum possible stroke is available for special order upon request.

Note 2) Intermediate stroke is available by the 1 mm interval.

Note 3) Please contact SMC if the maximum manufacturable stroke is exceeded.

Specifications

Bore size (mm)	6	10	15	20	25	32	40	50	63
Item									
Proof pressure	1.05MPa								
Max. operating pressure	0.7MPa								
Min. operating pressure	0.16MPa				0.15MPa	0.14MPa	0.12MPa		
Ambient and fluid temperature	-10°C to 60°C (With no freezing)								
Piston speed	50 to 400 mm/s								
Stroke length tolerance	0 to 250 st: $\begin{smallmatrix} +1.0 \\ 0 \end{smallmatrix}$, 251 to 1000 st: $\begin{smallmatrix} +1.4 \\ 0 \end{smallmatrix}$, 1001 st to: $\begin{smallmatrix} +1.8 \\ 0 \end{smallmatrix}$								
Mounting bracket	2 mounting nuts (Standard)								
Grease	Fluorine grease								
Particle generation grade (Refer to front matter pages 13 to 22 for details.)	Grade 3								

Magnetic holding force (N)

Bore size (mm)	6	10	15	20	25	32	40	50	63
Holding force	19.6	53.9	137	231	363	588	922	1471	2256

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