

Magnetically Coupled Rodless Cylinder/ Basic Type

Series *CY3B*

ø6, ø10, ø15, ø20, ø25, ø32, ø40, ø50, ø63

How to Order

Basic type **CY3B** **25** **300**

Basic type

Bore size

6	6mm
10	10mm
15	15mm
20	20mm
25	25mm
32	32mm
40	40mm
50	50mm
63	63mm

Standard stroke

Refer to the standard stroke table shown below.

Made to Order

Refer to page 1175 for details.

Port thread type

Symbol	Type	Bore size
Nil	M thread	6, 10, 15
	Rc	20, 25, 32, 40
TN	NPT	50, 63
TF	G	

Standard Stroke

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	1000
20	100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800	1500
25		3000
32		
40	100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000	3000
50		5000
63		

Note 1) Long stroke specification (XB11) applies to the strokes exceeding 2000 mm. (Refer to page 1405.)

Note 2) The longer the stroke, the larger the amount of deflection in a cylinder tube. Pay attention to the mounting bracket and clearance value.

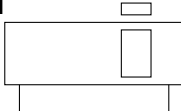
Note 3) Intermediate stroke is available by the 1 mm interval.

Magnetically Coupled Rodless Cylinder Basic Type **Series CY3B**

Specifications



JIS Symbol



Made to Order
(Refer to pages 1395 to 1565 for details.)

Symbol	Specifications
-XB6	Head resistant cylinder (-10 to 150°C)
-XB9	Low-speed cylinder (15 to 50mm/s)
-XB11	Long stroke type
-XB13	Low-speed cylinder (7 to 50mm/s)
-XC24	With magnetic shielding plate
-XC57	With floating joint
-X116	Hydro specifications
-X132	Axial ports
-X160	High speed specifications
-X168	Helical insert thread specifications
-X206	Added mounting tap positions for slider
-X210	Non-lubricated exterior specifications
-X322	Outside of cylinder tube with hard chrome plating
-X324	Non-lubricated exterior specifications (with dust seal)
-X1468	Interchangeable specification with CY1□6

Bore size (mm)	6	10	15	20	25	32	40	50	63
Fluid	Air								
Proof pressure	1.05 MPa								
Max. operating pressure	0.7 MPa								
Min. operating pressure	0.16	0.16	0.16	0.16	0.15	0.14	0.12	0.12	0.12
Ambient and fluid temperature	-10 to 60°C								
Piston speed	50 to 500 mm/s								
Cushion	Rubber bumper								
Lubrication	Not required (Non-lube)								
Stroke length tolerance	0 to 250 st: $+1.0_0$, 251 to 1000 st: $+1.4_0$, 1001 st to: $+1.8_0$								
Mounting orientation	Horizontal, Inclined, Vertical (Note)								
Mounting nut (2 pcs.)	Standard equipment (accessory)								
Magnet holding force (N)	19.6	53.9	137	231	363	588	922	1471	2256

Note) When vertically mounting, it is impossible to perform an intermediate stop by means of a pneumatic circuit.

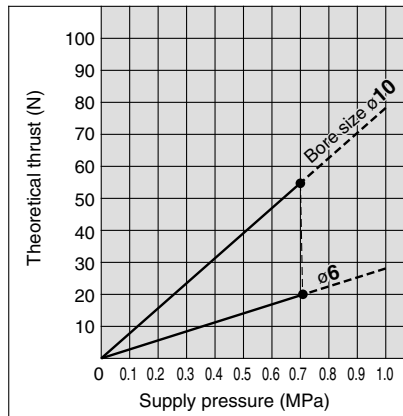
Theoretical Cylinder Thrust



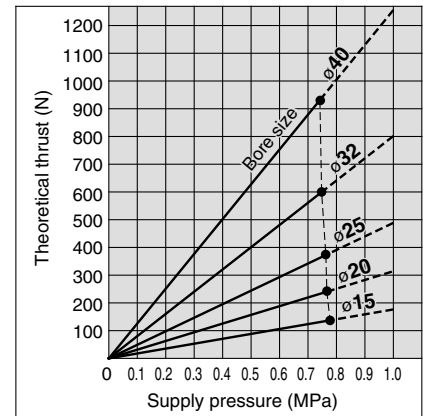
Caution

When calculating the actual thrust, design should consider the minimum actuating pressure.

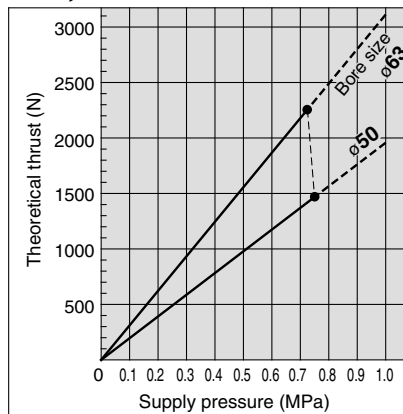
ø6, ø10



ø15, ø20, ø25, ø32, ø40



ø50, ø63



Mass

Unit: kg

Bore size (mm)	6	10	15	20	25	32	40	50	63
Basic mass (at 0 st)	0.052	0.08	0.275	0.351	0.672	1.287	2.07	3.2	5.3
Additional mass per 50 mm of stroke	0.004	0.014	0.015	0.02	0.023	0.033	0.04	0.077	0.096

Calculation method/Example: **CY3B32-500**

Basic mass 1.287 kg
Additional mass 0.033/50 st
Cylinder stroke 500 st
1.287 + 0.033 x 500 ÷ 50 = 1.617 kg



CY3B
CY3R

CY1S

CY1L

CY1H

CY1F

CYP

D-□

-X□

Individual
-X□

Technical
data