

# Series *CY3B/CY3R*

## Improved durability

### Improved bearing performance

A 70% longer wear ring length achieving an improvement in bearing performance compared to the CY1B.

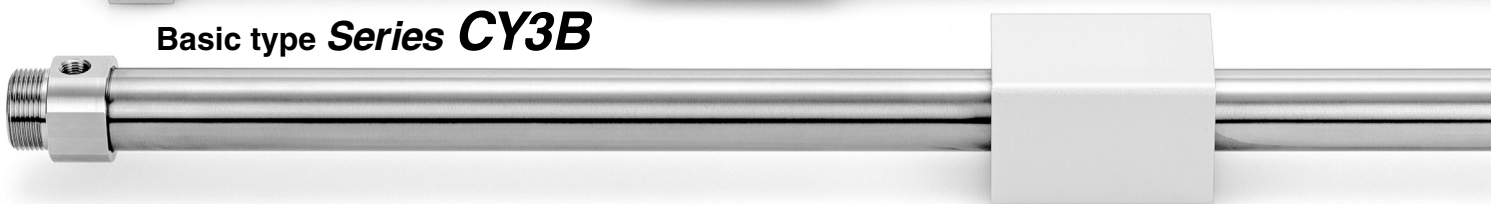
### Improved lubrication by using a lubretainer

A special resin lubretainer is installed on the dust seal to achieve ideal lubrication on the external surface of the cylinder tube.

### Direct mount type *Series CY3R*



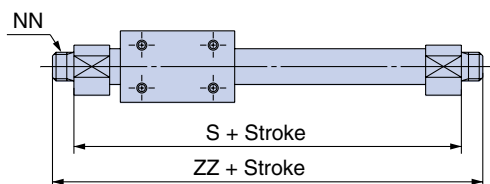
### Basic type *Series CY3B*



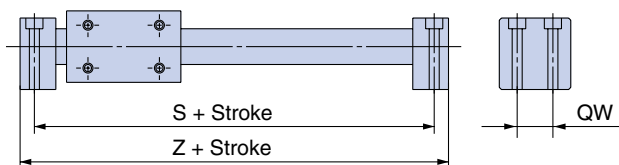
## Mounting dimensions are identical to those of series CY1.

The mounting dimensions (in the drawing below) are identical with those of existing series CY1B/CY1R, allowing easy replacement.

### Series CY3B

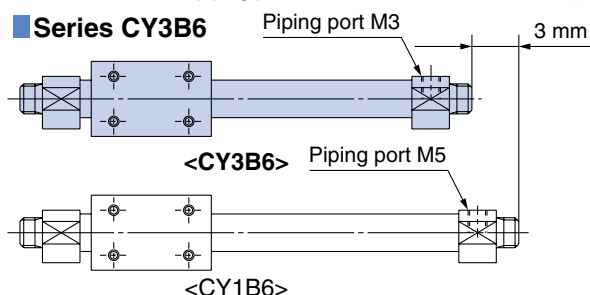


### Series CY3R

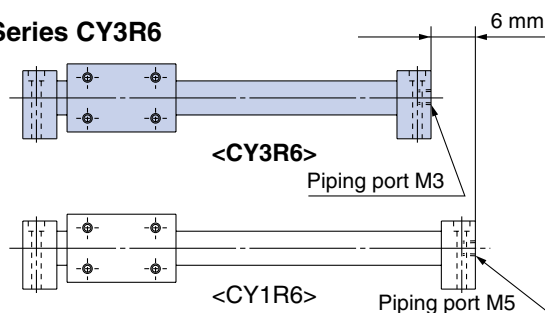


(\* For bore size of  $\phi 6$ , the mounting is not interchangeable with the CY1 series because the piping port has been reduced to a M3 size.)

### Series CY3B6



### Series CY3R6



Note) When ordering a product that is interchangeable with a CY1□6, add the suffix, X1468 to the end of the CY3□6 model number (Refer to page 27).

# Magnetically Coupled Rodless Cylinder: Direct Mount Type

## Series *CY3R*

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

### How to Order

**CY3R** **25** **300** **M9B**

**Direct mount type**

**Piping type**

Nil	Both sides piping type
G	Centralized piping type

Note 1) Type G (centralized piping) is not available for ø6.

**Bore size**

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

**Port thread type**

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

**Number of auto switches**

Nil	2 pcs.
S	1 ps,
n	"n" pcs.

**Auto switch type**

Nil	Without auto switch
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Note 1) In case of ø20 with switch rail but without switch, the cylinder construction is for reed switch.  
\* Refer to the table below for auto switch model numbers.  
\* The auto switch is shipped together, but not assembled.

**Switch rail**

Nil	With switch rail
N	Without switch rail

Note 1) A type with switch rail has built-in switch magnets.  
Note 2) ø15 has built-in switch magnets even without switch rail.

**Standard stroke**  
Refer to page 12 for standard stroke.

**Applicable Auto Switches**/The applicable auto switch is determined by the bore size. Refer to pages 21 to 23 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		0.5 (Nil)	3 (L)	5 (Z)			
Reed switch	—	Grommet	No	2-wire	24 V	5 V, 12 V	100 V or less	A90	●	●	—	—	IC circuit	Relay, PLC
			Yes	3-wire (NPN equiv.)	—	5 V	—	A93	●	●	—	—	—	—
			Yes	3-wire (NPN)	—	5 V	—	A96	●	●	—	—	IC circuit	—
Solid state switch	Diagnostic indication (2-color display)	Grommet	Yes	3-wire (PNP)	24 V	5 V, 12 V		M9N	●	●	○	○	IC circuit	Relay, PLC
				3-wire (PNP)				M9P	●	●	○	○	—	
				2-wire				M9B	●	●	○	○	—	
				3-wire (NPN)				F9NW	●	●	○	○	IC circuit	
				3-wire (PNP)				F9PW	●	●	○	○	—	
				2-wire				F9BW	●	●	○	○	—	
				2-wire										

\* Lead wire length symbols: 0.5 m..... Nil (Example) M9N  
3 m..... L (Example) M9NL  
5 m..... Z (Example) M9NZ

\*\* Solid state switches marked "○" are produced upon receipt of order

- For ø25, 32, 40, 50, and 63, other than the applicable auto switches listed in "How to Order" the other auto switches can be mounted. For detailed specifications, refer to page 18
- With pre-wired connector is also available in solid state auto switches. For specifications, refer to "SMC Best Pneumatics" catalog vol. 8, page 8-30-52.