# Made to Order Common Specifications: -XB6: Heat Resistant Cylinder (-10 to 150°C)



The CY3B series is to be discontinued as of May 2025 Please select the CY3B-Z series instead.

Symbol -XB6

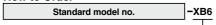
### 2 Heat Resistant Cylinder (-10 to 150°C)

Air cylinder which changed the seal material and grease, so that it could be used even at higher temperature up to 150 from -10°C.

#### Applicable Series

Series	Description	Model	Action	Note	Vol. no. (for std model		
CJP2	Pin cylinder	CJP2	Double acting, Single rod	Except clevis, trunnion type, with auto switch, ø4. Packing set (8)	The same of the sa		
	· ·	CJ2-Z	Double acting, Single rod	Except with air cushion and auto switch, rod end bracket T, U			
CJ2	Air cylinder	CJ2W-Z	Double acting, Double rod	Except with air cushion and auto switch, rod end bracket T, U	1		
		CM2-Z	Double acting, Single rod	Except with rod boot and with auto switch	1		
	Air cylinder	CM2W-Z	Double acting, Double rod	Except with rod boot and with auto switch	i		
	Non-rotating rod type	CM2K-Z	Double acting, Single rod	Except with rod boot and with auto switch	1		
CM2			Double acting, Double rod	Except with auto switch	1		
J	Direct mount type	CM2R-Z	Double acting, Single rod	Except with auto switch	i		
	Non-rotating rod, Direct mount type		Double acting, Single rod	Except with auto switch	1		
	End lock cylinder	CBM2	Double acting, Single rod	Except with rod boot and with auto switch	1		
	Zila look oyiiladi	CG1-Z1	Double acting, Single rod	Except with auto switch. Without a bumper for cylinders with rubber bumper			
	Air cylinder	CG1-Z	Double acting, Single rod	Except with auto switch. Without a bumper for cylinders with rubber bumper			
CG1	7 iii Cylinder	CG1W-Z	Double acting, Double rod	Except with auto switch. Without a bumper for cylinders with rubber bumper			
<b>.</b>		CG1R-Z1	Double acting, Single rod	Except with auto switch. Without a bumper for cylinders with rubber bumper	1		
	Direct mount type	CG1R-Z	Double acting, Single rod	Except with auto switch. Without a bumper for cylinders with rubber bumper	1		
		MB-Z	Double acting, Single rod	Except without air cushion and with auto switch	1		
MB	Air cylinder	MBW-Z	Double acting, Double rod	Except without air cushion and with auto switch	1		
		MB1-Z	Double acting, Boddle rod	Except without air cushion and with auto switch	1		
MB1	Air cylinder	MB1W-Z	Double acting, Ongle rod	Except without air cushion and with auto switch	1		
		CA2-Z	Double acting, Single rod	Except with auto switch	1		
CA2	Air cylinder	CA2W-Z	Double acting, Double rod	Except with auto switch	1		
UAZ	End lock cylinder	CBA2	Double acting, Single rod	Except with auto switch	1		
	Air cylinder	CS1□N	Double acting, Single rod	Except with auto switch	-		
CS1		CS1W N	Double acting, Single rod	Except with auto switch. Applicable bore size (ø125 to ø200)			
		CS2	Double acting, Single rod	Except with auto switch Except ø180 to ø320	Web Catalog		
CS2	Air cylinder	CS2W	Double acting, Single rod	Except with auto switch Except ø180 to ø320	-		
CUJ	Mini free mount cylinder	CUJ	Double acting, Single rod	Except with auto switch and ø4	1		
000	Free mount cylinder	CU	Double acting, Single rod	Except with auto switch	1		
	Non-rotating rod type	CUK	Double acting, Single rod	Except with auto switch	1		
CU	Long stroke	CU	Double acting, Single rod	Except with auto switch	1		
	Long stroke, Non-rotating rod	CUK	Double acting, Single rod	Except with auto switch	1		
	Long stroke, Non-rotating rou	CQS	Double acting, Single rod	Except with rubber bumper and auto switch	-		
cqs	Compact cylinder	CQSW	Double acting, Single rod	Except with rubber bumper and auto switch	1		
	. ,	CQSW CQ2-Z			-		
	Compact cylinder	CQ2-Z	Double acting, Single rod Double acting, Double rod	Except with rubber bumper and auto switch, air-hydro type  Except with rubber bumper and auto switch, air-hydro type	1		
CQ2		CQ2W-Z	Double acting, Double rod	Except with rubber bumper and auto switch, air-nydro type  Except with rubber bumper and auto switch, air-hydro type	-		
CUZ	Axial piping type (Centralized piping type)  Non-rotating rod type	CQ2K-Z			-		
		CQ2K-Z	Double acting, Single rod	Except with rubber bumper and auto switch	-		
9 71		CG5	Double acting, Double rod	Except with rubber bumper and auto switch	-		
CGO	Stainless cylinder		Double acting, Single rod	Except with auto switch. Without a bumper for cylinders with a rubber bumper (Grease for non-food is used.)	-		
CY3	Magnetically coupled rodless cylinder	CY3B-Z	Basic type	Without a bumper			
MK		CY3B	Daubla astir -	Without a bumper			
	Rotary clamp	MK-Z	Double acting	Except with auto switch, ø12 and ø16	-		
MGP	Compact guide cylinder	MGPM-Z	Double acting				
MGQ	Compact guide cylinder	MGQ	Double acting	Except with auto switch, ø12 to ø25 of MGQL (Ball bushing type). No rubber bumper is equipped.	1		
MGG	Guide cylinder	MGG Double acting Except with auto switch. No shock absorber and rubber bumper are equipped					
MGC	Guide cylinder MGC Double acting Except with auto switch						
CXSJ	Dual rod cylinder	CXSJ	Compact type	Except with auto switch			
CXS Dual rod cylinder		CXS	Basic type	Except with auto switch	I		

#### How to Order



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Heat resistant cylinder

#### Specifications

Ambient temperature range	-10 to 150°C (0 to 150°C for CS1, CS2 series)				
Seals materials	Fluororubber				
Grease	Heat resistant grease				
Specifications other than above and external dimensions	Same as standard type				

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Be aware that smoking cigarettes, etc. after your hands have come into contact with the grease used in this cylinder can create a gas that is hazardous to humans.

Note 1) Operate without lubrication from a pneumatic system lubricator.

Note 2) The maintenance intervals for this cylinder differ from those of the standard cylinder.

- Note 3) In principle, it is impossible to make built-in magnet type and the one with auto switch. However, for the type with an auto switch and the heat-resistant cylinder with a heat-resistant auto switch, refer to the "-XB14 Made to Order Common Specifications."
- Note 4) Piston speed is ranged from 50 to 500 mm/s.

  But, for MGGCIB0, 100 and MGPCIB0, 100, it will be
  50 to 400 mm/s. 50 to 200 mm/s for the MK series.

  The piston speed for the CY3B and CY38-Z series is 50 to 400 mm/s.

  Note that the max, piston speed changes depending
  on the ambient temperature.
- Note 5) As for the ambient temperature range of the CY3B and CY3B-Z series, since the magnetic holding force will be varied depending on the operating conditions, make sure that by referring to the next page.
- Note 6) The ambient temperature range of the CY3B and CY3B-Z series is 50 to 150°C.
- Note 7) Refer to the construction of the standard type for the details of the packing set for CJP2□6,10 and 16.



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Click here for details

Symbol -XB6

#### 2 Heat Resistant Cylinder (-10 to 150°C)

# CY3B series How to Order CY3B Standard model no. -XB6 Heat resistant cylinder

#### **Specifications**

Model	CY3B-Z, CY3B		
Bore size (mm)	ø6 to ø63		
Ambient and fluid temperature	50 to 150°C*		
Maximum operating pressure	0.5 MPa		
Piston speed	50 to 400 mm/s*		

- $\ast$  When the temperature is in the less than 100°C range, operate at 200 mm/s or less.
- \* External dimensions are identical to the standard model.

## Operating Pressure Limit for Intermediate Stop and Vertical Operation

Maximum operating pressure at the intermediate stop	0.4 MPa*

Use caution that the magnet coupling will be removed, if it is used to stop in an intermediate stroke by an external stopper with the operating pressure over 0.4 MPa.

#### **Magnetic Holding Force**

magnetic ricianing i cicc							(14)		
Bore size (mm)	6	10	15	20	25	32	40	50	63
Holding force (at 150°C)	14.4	40.0	90.1	160	250	410	641	1000	1590
Holding force (at 100°C)	17.2	47.9	107	192	299	490	766	1190	1900

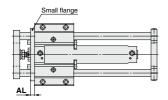
#### MGC series How to Order

MGC Standard model no. —XB6

Heat resistant cylinder

Dimensions (Dimensions other than below are the same as standard type.)

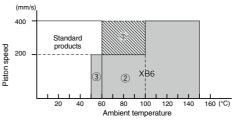
#### **MGCLB** series



	(mm)
Bore size (mm)	AL
20	9
25	9
32	9
40	12
50	12

#### Temperature Range for Operating Cylinder and Piston Speed

- For piston speeds of more than 200 mm/s when the operating temperature is within the 60 to 100°C range, a special order product is available separately.
- When using with the operating temperature from 50 up to 100°C, and the piston speed of less than 200 mm/s, XB6 specifications can be used.
- As for XB6, regarding the temperature range (over 50 to 60°C) which overlaps the one of standard products, consider the tendency of operating temperature (upper, lower limits), then choose a model.



When the operating temperature fluctuates between 50°C or less and 100°C or more, this may result in an unstable operating speed and a reduced service life.

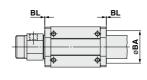
#### <Reference>

(NI)

Maintenance cycle for XB6 could vary substantially, depending on the operating condition and the ambient temperature.

Even if using in our recommended range, as a guide, conduct it in around 1/2 intervals, compared to the standard products.

#### **Dimensions** (Dimensions other than below are the same as standard type.)



Bore size (mm)	BA	BL
6	_	
10	_	_
15	_	
20	_	_
25	37	0.3
32	_	_
40	_	-
50	68.5	0.6
63		

(mm)

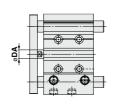
#### MGP series How to Order

\* The cylinders other than those with a bore size of 25 or 50 have no convex shapes.

MGPM Standard model no. -XB6

Heat resistant cylinder

#### **Dimensions**



	(mm)
Bore size (mm)	DA
12	(6)
16	(8)
20	(10)
25	(10)
32	(14)
40	(14)
50	20
63	20
80	25
100	30

The dimensions in ( ) are the same as standard type.