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

Made to Order

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)	2-1 From P. 23			
CJ2	Air cylinder	CJ2-Z						
		CJ2W-Z	Double acting, Double rod	Except with air cushion and auto switch, rod end bracket T, U	2-1 From P. 46			
CM2	Air cylinder	CM2-Z	Double acting, Single rod	Except with rod boot and with auto switch				
	Air cylinder	CM2W-Z	Double acting, Double rod	Except with rod boot and with auto switch				
	Non-rotating rod type	CM2K-Z	Double acting, Single rod	Except with rod boot and with auto switch	1			
	Non-rotating rod type	CM2KW-Z	Double acting, Double rod	Except with auto switch	2-1 From P. 17			
	Direct mount type	CM2R-Z			7			
	Non-rotating rod, Direct mount type	CM2RK-Z	Double acting, Single rod	1				
	End lock cylinder	CBM2	Double acting, Single rod	Except with rod boot and with auto switch				
	Air adiadar	CG1-Z	Double acting, Single rod	Except with auto switch. Without a bumper for cylinders with rubber bumper				
CG1	Air cylinder	CG1W-Z	Double acting, Double rod	Except with auto switch. Without a bumper for cylinders with rubber bumper	2-1 From P. 292			
	Direct mount type	CG1R-Z	Double acting, Single rod	Except with auto switch. Without a bumper for cylinders with rubber bumper				
		MB-Z	Double acting, Single rod	Except without air cushion and with auto switch	2-1 From P 302			
MB	Air cylinder	MBW-Z	Double acting, Double rod	Except without air cushion and with auto switch	2-1 From P. 392			
		MB1-Z	Double acting. Single rod	Except without air cushion and with auto switch				
MB1	Air cylinder	MB1W-Z	Double acting, Double rod	Except without air cushion and with auto switch	2-1 From P. 440			
		CA2-Z	Double acting, Single rod	Except with auto switch				
CA2	Air cylinder	CA2W-Z	Double acting, Double rod	Except with auto switch	2-1 From P. 47			
	End lock cylinder	CBA2	Double acting, Single rod	Except with auto switch	G 11100011.470			
	Air cylinder	CS1⊡N	Double acting, Single rod		2-1 From P. 53			
CS1		CS1W□N	Double acting, Double rod	Except with auto switch. Applicable bore size (ø125 to ø200)				
	Air cylinder	CS2	Double acting, Single rod	Except with auto switch				
CS2		CS2W	Double acting, Double rod	Except with auto switch	2-1 From P. 56			
CUJ	Mini free mount cylinder	CUJ	Double acting, Single rod	Except with auto switch and ø4	2-1 From P. 59			
	Free mount cylinder	CU	Double acting, Single rod	Except with auto switch	-			
	Non-rotating rod type	CUK	Double acting, Single rod	Except with auto switch				
CU	Long stroke	CU	Double acting, Single rod	Except with auto switch	2-1 From P. 62			
	Long stroke, Non-rotating rod	CUK	Double acting, Single rod	Except with auto switch	1			
		CQS	Double acting, Single rod	Except with rubber bumper and auto switch				
cqs	Compact cylinder	CQSW	Double acting, Double rod	Except with rubber bumper and auto switch	2-1 From P. 69			
	Compact cylinder	CQ2-Z	Double acting, Single rod	Except with rubber bumper and auto switch				
		CQ2W-Z	Double acting, Double rod	Except with rubber bumper and auto switch	1			
CQ2	Axial piping type (Centralized piping type)	CQP2	Double acting, Single rod	Except with rubber bumper and auto switch	2-1 From P. 77			
		CQ2K-Z	Double acting, Single rod	Except with rubber bumper and auto switch				
	Non-rotating rod type	CQ2KW-Z	Double acting, Double rod	Except with rubber bumper and auto switch				
CG5	Stainless cylinder	CG5	Double acting, Single rod	Except with auto switch. Without a bumper for cylinders with a rubber bumper (Grease for non-food is used.)	2-1 From P. 107			
CY3	Magnetically coupled rodless cylinder	CY3B	Basic type	Except with auto switch. Without a bumper	2-1 From P. 146			
MK	Rotary clamp	MK-Z	Double acting	Except with auto switch, ø12 and ø16	2-3 From P. 38			
MGP	Compact guide cylinder	MGPM-Z	Double acting	Except with auto switch. No rubber bumper is equipped.	2-2 From P. 43			
MGQ	Compact guide cylinder	MGQ	Double acting	Except with auto switch, ø12 to ø25 of MGQL (Ball bushing type)	2-2 From P. 52			
MGG	Guide cylinder	MGG	Double acting	Except with auto switch. No shock absorber and rubber bumper are equipped.	2-2 From P. 53			
MGC	Guide cylinder	MGC	Double acting	Except with auto switch. No shock absorber and rubber bumper are equipped.	2-2 From P. 57			
CXSJ		CXSJ	Compact type	Except with auto switch	2-2 From P. 578			
CXS	Dual rod cylinder	CXSJ	Basic type	Except with auto switch	2-2 From P. 73			
0.43				Except with auto switch	U -2 FIUIII P. 74			

₿SMC

How to Order

	01001		
Standard model no.		-XB6	
	Heat resistant cylir	nder	

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			

A Warning Precautions

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) Please contact SMC for details on the maintenance intervals for this cylinder, which 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. But, as for the one with auto switch, and the heat resistant cylinder with heat resistant auto switch, since it will be differed depending on the series, please contact SMC.
- Note 4) Piston speed is ranged from 50 to 500 mm/s. But, for MGQ⊡80, 100 and MGP⊡80, 100, it will be 50 to 400 mm/s. 50 to 200 mm/s for the MK series.
- The piston speed for the CY3B series is 50 to 400 mm/s. Note 5) Please contact SMC for the CQ2, CQS, MGP and MGQ series with rubber bumper.
- Note 6) As for the ambient temperature range of the CY3B series, since
- Note 7) The magnetic holding force will be varied depending on the operating conditions, make sure that by referring to the next page. Note 7) The ambient temperature range of the CY39 series is 50 to 150°C. Note 8) 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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Made to Order Common Specifications: -XB6: Heat Resistant Cylinder (-10 to 150°C)



Symbol

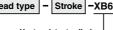
-XB6

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

CY3B series

How to Order

CY3B Bore size Port thread type



Heat resistant cylinder 🜢

Specifications

Applicable size	СҮЗВ		
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*		

* When using in less than 100°C range, since it could make a difference in the maintenance cycle, depending on the operating speed, use it at 200 mm/s or less.

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

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	

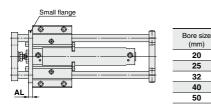
MGC series

How to Order



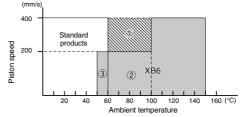
Dimensions (Dimensions other than below are the same as standard type.)

MGCLB series



Temperature Range for Operating Cylinder and Piston Speed

- When using with the operating temperature from 60 up to 100°C, and the piston speed of more than 200 mm/s, please consult with SMC 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 using with the operating temperature fluctuated between 50° C or less and 100° C or more, the operating speed, etc. will be largely restricted by the durability. Prior to use, please contact SMC.

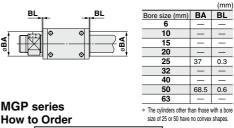
<Reference>

(N)

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.

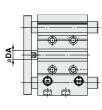
Dimensions (Dimensions other than below are the same as standard type.)



MGPM Standard model no.

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 standar						

XB6

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



(mm)

AL

9 9

9

12

12