

# Made to Order Common Specifications: -XC6: Made of Stainless Steel



## 18 Made of Stainless Steel

The piston rod and rod end nut (male thread only) of this model are made of stainless steel. This model is suitable for applications in which the end of the piston rod is to be immersed in water, etc., and there is concern regarding the generation of rust or corrosion.

### Applicable Series

Series	Description	Model	Action	Vol. no. (for std model)
CM2	Air cylinder	CM2-Z	Double acting, Single rod Single acting (Spring return/extend)	②-1 From P. 172
		CM2W-Z	Double acting, Double rod	
	Non-rotating rod type	CM2K-Z	Double acting, Single rod Single acting (Spring return/extend)	
		CM2K-R-Z	Double acting, Double rod	
		CM2R-Z	Double acting, Single rod	
	Direct mount type	CM2RK-Z	Double acting, Single rod	
	Non-rotating rod, Direct mount type	CM2R□□	Double acting, Single rod	
	Centralized piping type	CM2□□□	Double acting, Single rod	
	Smooth cylinder (5)	CM2Y-Z	Double acting, Single rod	
	Air-hydro type	CM2H-Z	Double acting, Single rod	
Direct mount type, air-hydro type	CM2RH-Z	Double acting, Single rod		
End lock cylinder	CBM2 (6)	Double acting, Single rod		
CG1	Air cylinder	CG1-Z	Double acting, Single rod Single acting (Spring return/extend)	②-1 From P. 292
	Double rod type	CG1W-Z	Double acting, Double rod	
	Direct mount type	CG1R-Z	Double acting, Single rod	
	Smooth cylinder (5)	CG1Y-Z	Double acting, Single rod	
MB (2)	Air cylinder	MB-Z (4)	Double acting, Single rod	②-1 From P. 392
		MBW-Z (4)	Double acting, Double rod	
MB1 (2)	Air cylinder	MB1-Z (4)	Double acting, Single rod	②-1 From P. 440
	End lock cylinder	CBA2 (1)	Double acting, Single rod	
CA2 (2)	Air-hydro type	CA2□□	Double acting, Single rod	②-1 From P. 470
		CA2WH□	Double acting, Double rod	
		CS1	Double acting, Single rod	
CS1 (2)	Air cylinder	CS1W	Double acting, Double rod	②-1 From P. 530
		CS1□	Double acting, Single rod	

Series	Description	Model	Action	Vol. no. (for std model)
CQS	Compact cylinder	CQS	Double acting, Single rod Single acting (Spring return/extend)	②-1 From P. 693
		CQSW	Double acting, Double rod	
	Non-rotating rod type	CQSK	Double acting, Single rod	
	Lateral load resisting type	CQS□S	Double acting, Single rod	
CQ2	Compact cylinder	CQ2-Z	Double acting, Single rod Single acting (Spring return/extend)	Web Catalog
		CQ2W-Z	Double acting, Double rod	
	Axial piping (Centralized piping)	CQP2-Z	Double acting, Single rod Single acting (Spring return/extend)	
	Long stroke	CQ2-Z	Double acting, Single rod	
	Anti-lateral load	CQ2□S-Z	Double acting, Single rod	
	Water resistant	CQ2-R/V-Z	Double acting, Single rod	
		CQ2W-R/V-Z	Double acting, Double rod	
MU	Plate cylinder	MU-Z	Double acting, Single rod	②-1 From P. 1036
CV	Valve mounted air cylinder	CVM5	Double acting, Single rod	②-3 From P. 771
		CVM5K	Double acting, Single rod	
		CV3	Double acting, Single rod	
		CVS1	Double acting, Single rod	
MGP	Compact guide cylinder	MGP-Z	Double acting	②-2 From P. 432
MGG	Guide cylinder	MGG	Double acting	②-2 From P. 538
MGC	Guide cylinder	MGC	Double acting	②-2 From P. 578
CXS	Dual rod cylinder	CXSM	Double acting	②-2 From P. 749
CXSJ	Dual rod cylinder compact type	CXSJM	Double acting	②-2 From P. 737
RHC	High power cylinder	RHC	Double acting	②-3 From P. 351

Note 1) Head side locking type only

Note 2) There is a maximum stroke limit for CA2, MB, MB1 and CS1 cylinders.

Note 3) The MB-Z, MB1-Z, and CA2-Z made of stainless steel are applicable as "-XC6".

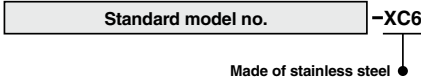
Note 4) Only available for ø125 type.

Note 5) Keep in mind that poor lubrication of the piston rod sliding surface may result in the specifications stated in the catalog not being satisfied.

Note 6) Double end lock is available as a special order.

### How to Order

**CM2, CG1, MB, MB1, CA2, CS1, CQS, CQ2, MU, CV**



### Mounting brackets, accessories, and nut material: Stainless steel

The following accessories need to be prepared separately. (Please order separately.) Refer to the "Accessories" page of each series for details.

Series	Bore size (mm)	Foot	Flange	Single knuckle joint	Double knuckle joint	Rod end nut	Accessories page
CM2	20, 25, 32, 40	○	○	○	○	○	Best Pneumatics No. 2-1 p. 190
CG1	20, 25, 32, 40, 50, 63, 80, 100	○*	○*	○	○	—	Best Pneumatics No. 2-1 p. 309-1
CQ2	20, 25, 32, 40, 50, 63, 80, 100	—	—	○	○	—	Best Pneumatics No. 2-1 p. 796

\* Except bore size 20 and 25.

### Maximum Stroke

Series	Double acting, Single rod	Double acting single rod with rod boot
CA2, MB, MB1	CA2: 1500 MB-MB1: 1700	1000
CS1	1200	1200

### Specifications

Parts changed to stainless steel	Piston rod, Rod end nut
Specifications other than above and external dimensions	Same as standard

Note 1) In the case of CS1 cylinder, the piston rod is only made of stainless steel. Rod end nut is not attached.

Note 2) In the case of CQ cylinder, its snap ring and piston rod are made of stainless steel. Rod end nut is also made of stainless steel for rod end male thread type.

**CQ(P)2<sup>R</sup> Series**  
**Applicable Series**

Description	Model	Action
Water resistant	CQ2□ <sup>R</sup> □ <sub>V</sub>	Double acting, Single rod
	CQ2W□ <sup>R</sup> □ <sub>V</sub>	Double acting, Double rod

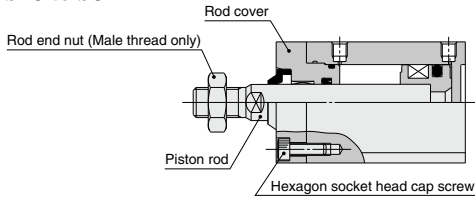
**How to Order**

C□Q2□<sup>R</sup>□<sub>V</sub>    C□Q2W□<sup>R</sup>□<sub>V</sub>    **Standard model no.**    -XC6    **A**

Made of stainless steel  
Suffix

<b>Nil</b>	Piston rod/Retaining ring/Rod end nut material: Stainless steel
<b>A</b>	Piston rod/Rod end nut/Cover holding bolt material: Stainless steel

ø20 to ø32



**Specifications**

Parts changed to stainless steel	XC6 *1 XC6A	Retaining ring, Piston rod, Rod end nut
		Piston rod, Rod end nut, Cover holding bolt

<b>Specifications other than the above and dimensions</b>	Same as the standard type
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\* -XC6A is only applicable to ø20, ø25, and ø32 of the double acting, single rod type.

**Stainless steel rod end brackets (single knuckle joint, double knuckle joint) are also available.**

For details ⇨ [Web Catalog](#)

# Made to Order Common Specifications: -XC6: Made of Stainless Steel



## 18 Made of Stainless Steel

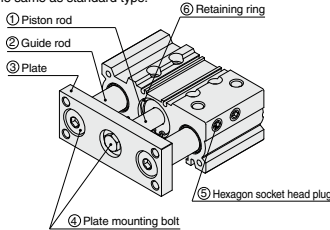
Symbol  
-XC6

### MGP series

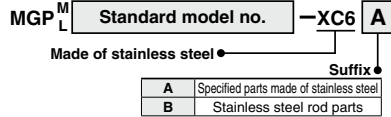
#### Specified Parts Changed to Stainless Steel

XC6A	①, ②, ③, ④, ⑤, ⑥
XC6B	①, ②, ⑤, ⑥

Specifications and external dimensions other than above are the same as standard type.



#### How to Order



#### Dimensions

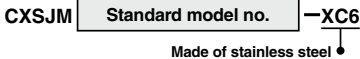
Bore size (mm)	XC6A			XC6B
	DA	FA	FB	DA
12	(6)	8	5	(6)
16	(8)	8	5	(8)
20	(10)	9	7	(10)
25	(10)	10	6	(10)
32	(14)	12	10	(14)
40	(14)	12	10	(14)
50	20	16	12	20
63	20	16	12	20
80	25	19	21	25
100	30	22	28	30

(mm)

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

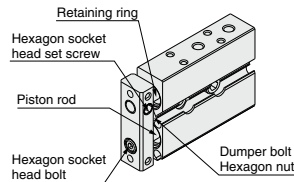
### CXSJM series

#### How to Order



#### Specifications

Parts changed to stainless steel	Piston rod, retaining ring, hexagon socket head bolt, hexagon socket head set screw, dumper bolt, hexagon nut
Specifications other than above and external dimensions	Same as standard



Note) The head cover retaining ring for  $\phi 6$  is made of special steel.

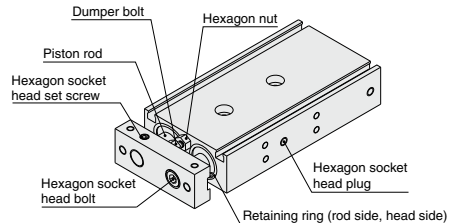
### CXSM series

#### How to Order



#### Specifications

Parts changed to stainless steel	Piston rod, retaining ring, hexagon socket head bolt, hexagon socket head set screw, dumper bolt, hexagon nut, hexagon socket head plug
Specifications other than above and external dimensions	Same as standard



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## 18 Made of Stainless Steel

Symbol  
**-XC6**

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### MGG series

#### How to Order

MGG Standard model no. **-XC6** Suffix

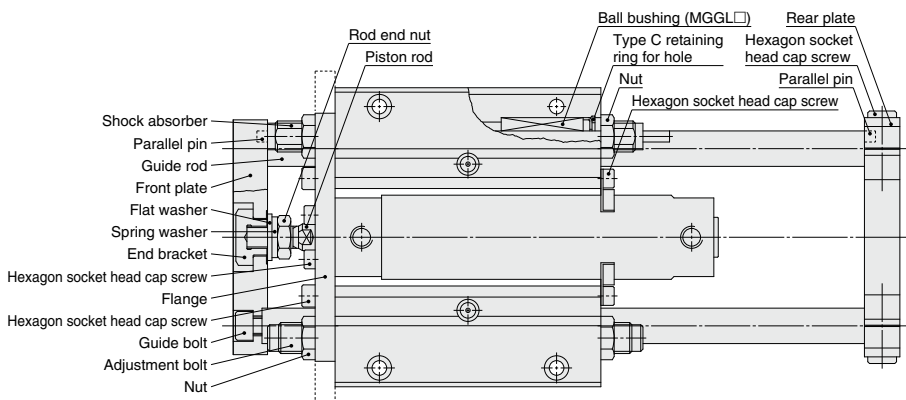
Made of stainless steel ●

Nil	Piston rod, rod end nut made of stainless steel
<b>A</b>	Stainless steel used on all standard iron parts
<b>B</b>	Stainless steel rod end moving parts
<b>C</b>	Stainless steel rod parts

#### Specified Parts Changed to Stainless Steel

Symbol	Basic cylinder	Guide unit
-XC6		—
-XC6A	CDG1Z $\square$ N20 to 63- $\square$ Z-XC6 CDG1B $\square$ N80 to 100- $\square$ Z-XC6 (Piston rod, Rod end nut)	Flange, Front plate, Rear plate, Ball bushing (MGG $\square$ ), Guide rod, End bracket, Flat washer, Spring washer, Type C retaining ring for hole, Adjustment bolt, Nut, Parallel pin, Hexagon socket head cap screw, Guide bolt
-XC6B		Front plate, Guide rod, End bracket, Flat washer, Spring washer, Parallel pin (for front plate), Guide bolt
-XC6C		Guide rod

\* Specifications other than the above are the same as the standard type.  
Note) RBL (coolant resistant) type shock absorbers are used for -XC6A.



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

MGG $\square$ B20 to 50- $\square$ -XC6A

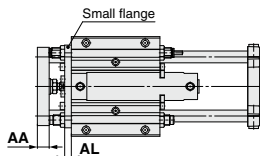
MGG $\square$ B20 to 50- $\square$ -XC6B

MGG $\square$ B20 to 50- $\square$ -XC6C

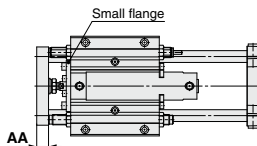
MGG $\square$ F20 to 50- $\square$ -XC6A

MGG $\square$ F20 to 50- $\square$ -XC6B

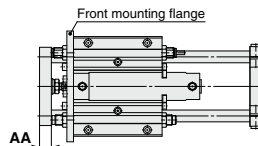
MGG $\square$ F20 to 50- $\square$ -XC6C



Bore size (mm)	(mm)	
	AA	AL
20	12	9
25	16	9
32	16	9
40	19	12
50	25	12



Bore size (mm)	(mm)	
	AA	
20	12	
25	16	
32	16	
40	19	
50	25	



Bore size (mm)	(mm)	
	AA	
20	12	
25	16	
32	16	
40	19	
50	25	

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Symbol  
**-XC6**

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### MGC series

#### How to Order

MGC Bearing type Mounting type Bore size - Stroke - Equipped/Not equipped back plate Auto switch C Nil - **X**C6

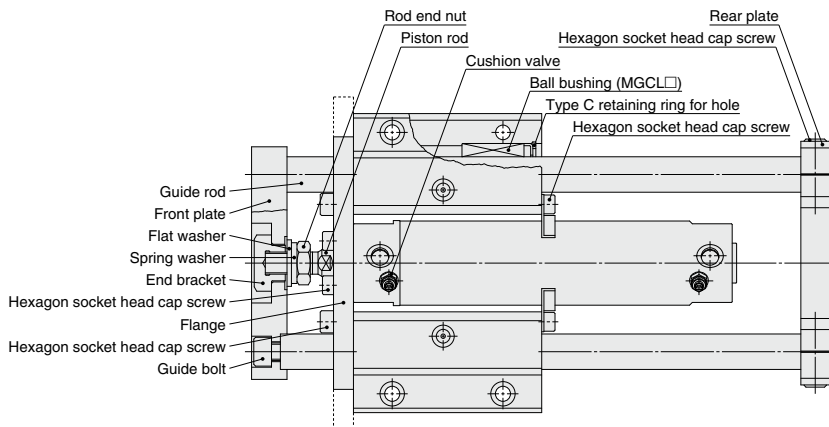
Note) For the XC6A, XC6B, and XC6C, this symbol is displayed when the D-A9□ or M9□ type auto switch is specified. It does not apply to other auto switches (such as the D-C7□ and H7□). (Nil)

	Made of stainless steel
Nil	Piston rod, rod end nut made of stainless steel
A	Stainless steel used on all standard iron parts
B	Stainless steel rod end moving parts
C	Stainless steel rod parts

#### Specified Parts Changed to Stainless Steel

Symbol	Basic cylinder	Guide unit
-XC6	CDG1ZA20 to 50-□-X-C6 (Piston rod, Rod end nut)	—
-XC6A	CDG1BA20 to 50-□-X1057 (Piston rod, Rod end nut, Cushion valve)	Flange, Front plate, Rear plate, Ball bushing (MGCL□), Guide rod, End bracket, Flat washer, Spring washer, Type C retaining ring for hole, Hexagon socket head cap screw, Guide bolt
-XC6B		Front plate, Guide rod, End bracket, Flat washer, Spring washer, Guide bolt
-XC6C		Guide rod

\* Specifications other than the above are the same as the standard type.



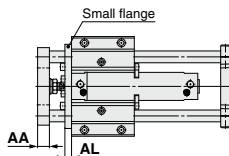
### Dimensions (Dimensions other than below are the same as standard type.)

MGC□B20 to 50-□-XC6A

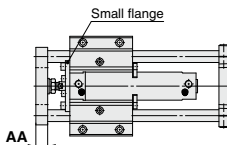
MGC□B20 to 50-□-XC6B

MGC□F20 to 50-□-XC6A

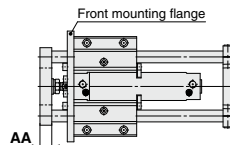
MGC□F20 to 50-□-XC6B



Bore size (mm)	(mm)	
	AA	AL
20	12	9
25	16	9
32	16	9
40	19	12
50	25	12



Bore size (mm)	(mm)
	AA
20	12
25	16
32	16
40	19
50	25



Bore size (mm)	(mm)
	AA
20	12
25	16
32	16
40	19
50	25