

# Made to Order Common Specifications: -XC92: Dust Resistant Actuator



## 65 Dust Resistant Actuator

Symbol  
**-XC92**

Applicable for environments with flying micro-powder (20 to 30 μm) such as ceramic powder, toner powder, paper powder, and metallic powder (except weld spatter). 4 times stronger than the standard model

### Applicable series

Series	Description/Type	Model	Action	Remark (s)	Vol. No. (for std model)
<b>CM2</b>	Air Cylinder	CM2	Double acting, Single rod	Compatible with cylinders with rubber bumper	②-1 P. 172
<b>CQS</b>	Compact Cylinder	CQS	Double acting, Single rod		②-1 P. 693
<b>CQ2</b>	Compact Cylinder	CQ2-Z	Double acting, Single rod	Applicable to ø32 to ø100.	②-1 P. 773
<b>MGP</b>	Compact Guide Cylinder	MGP	Double acting, Single rod		②-2 P. 432

### How to Order

**C(D)M2** [Mounting bracket] [Bore size] - [Stroke] - [Auto switch] [Suffix] - **XC92**  
 \* Auto switch is applicable for CDM2 only. Dust resistant actuator

Bore size (mm)	Standard stroke	Minimum operating pressure
<b>20</b>	25, 50, 75, 100, 125, 150, 200, 250, 300	0.1 MPa
<b>25</b>		
<b>32</b>		
<b>40</b>		

**C(D)QS** [Mounting bracket] [Bore size] - [Stroke] **D** [Body option] - [Auto switch] [Suffix] - **XC92**  
 \* Auto switch is applicable for CDQS only.  
 \* Body option with rear slip fit is not available. Dust resistant actuator

Bore size (mm)	Standard stroke	Minimum operating pressure
<b>12, 16</b>	5, 10, 15, 20, 25, 30	0.14 MPa
<b>20, 25</b>	5, 10, 15, 20, 25, 30, 35, 40, 45, 50	0.1 MPa

**C(D)Q2** [Mounting bracket] [Bore size] - [Stroke] **D** [Body option] **Z** - [Auto switch] [Suffix] - **XC92**  
 \* Auto switch is applicable for CDQ2 only.  
 \* Body option with rear slip fit is not available. Dust resistant actuator

Bore size (mm)	Standard stroke	Minimum operating pressure
<b>32, 40</b>	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100	0.1 MPa
<b>50 to 100</b>	10, 15, 20, 25, 30, 35, 40, 45, 50, 75, 100	0.1 MPa

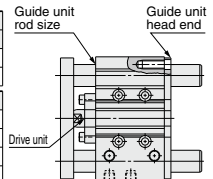
**MGPM** [Bore size] - [Stroke] - [Auto switch] [Suffix] - **XC92**  
 Dust resistant actuator

Bore size (mm)	Standard stroke
<b>12, 16</b>	10, 20, 30, 40, 50, 75, 100
<b>20, 25</b>	20, 30, 40, 50, 75, 100, 125, 150, 175, 200
<b>32 to 100</b>	25, 50, 75, 100, 125, 150, 175, 200

Symbol	Type	Drive unit	Guide unit	
			Rod side	Head end
<b>Nil</b>	With lube-retainers on one side	○	○	—
<b>W</b>	With lube-retainers on both sides	○	○	○

XC92	Bore size		Minimum operating pressure
	ø12, ø16	ø20 to ø100	
<b>XC92W</b>	ø12, ø16		0.25 MPa
	ø20 to ø100		0.2 MPa



Specifications other than minimum operating pressure are the same as standard model.

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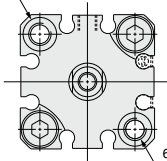


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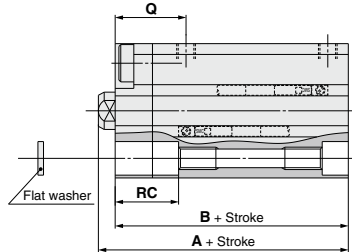
**Dimensions** (Other dimensions are the same as the standard type.)

### CM2 series: The same as the standard type CQS series

6 x  $\phi$ OB counterbore  
4 locations on the  
back side



6 x OA effective  
depth RA (Note 1)  
4 locations on the  
back side (Note 4)



Note 1) For the standard type  $\phi$ 12 and  $\phi$ 16 with 5 strokes,  $\phi$ 20 with 15 strokes or less, and  $\phi$ 25 with 5 or 10 strokes, and for models with an auto switch and built-in magnet of  $\phi$ 20 with 5 strokes, the through-hole is threaded over the entire length.

Note 2) Be sure to use the attached flat washer for mounting cylinder with through-holes.

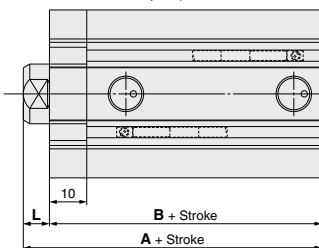
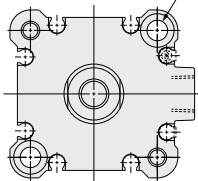
Note 3) For models with a rubber bumper, the stroke tolerance does not include bumper deflection.

Note 4) 2 locations on the back side for the standard-type  $\phi$ 20 with 15 strokes or less and  $\phi$ 25 with 10 strokes, and for models with an auto switch and built-in magnet of  $\phi$ 20 with 5 strokes.

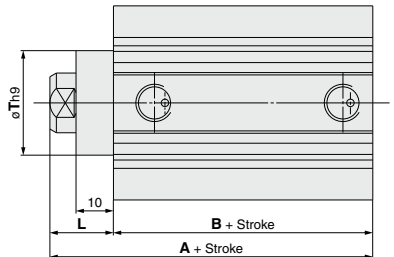
Bore size (mm)	A		B		Q	OA	OB	RA	RC
	Without auto switch	With auto switch	Without auto switch	With auto switch					
12	30.5	35.5	27	32	17.5	M4 x 0.7	6.5	7	14
16	30.5	35.5	27	32	17.5	M4 x 0.7	6.5	7	14
20	34	44	29.5	39.5	19	M6 x 1.0	9	10	17
25	37.5	47.5	32.5	42.5	21	M6 x 1.0	9	10	17

### CQ2 series

2 x  $\phi$ 5.5 through  
2 x 2 x  $\phi$ 9 counterbore depth 17  
(Bottom side counterbore depth 7)



$\phi$ 32



$\phi$ 40 to  $\phi$ 100

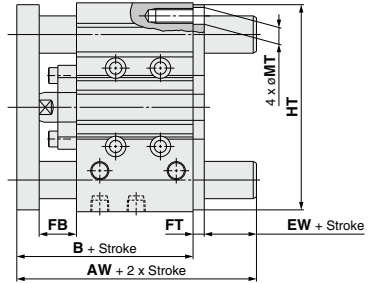
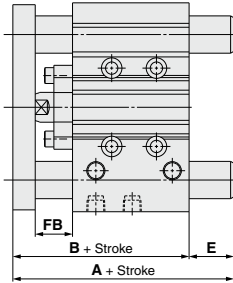
Bore size (mm)	A		B		T	
	Without auto switch	With auto switch	Without auto switch	With auto switch	L	T
32	40 (50)	50	33 (43)	43	7	—
40	46.5 (56.5)	56.5	29.5 (39.5)	39.5	17	28
50	48.5 (58.5)	58.5	30.5 (40.5)	40.5	18	35
63	54 (64)	64	36 (46)	46	18	35
80	63.5 (73.5)	73.5	43.5 (53.5)	53.5	20	43
100	75 (85)	85	53 (63)	63	22	59

Note 1) For cylinders with rubber bumper, stroke tolerance does not include the amount of bumper change.

Note 2) Dimensions inside ( ) are for 75, 100st.

**Dimensions** (Other dimensions are the same as the standard type.)

**MGP series**



**With Lube-retainers on one side** (mm)

Bore size (mm)	A		B	E		FB
	50 st or less	Over 50 st and 200 st or less*		50 st or less	Over 50 st and 200 st or less*	
12	52	70.5	52	0	18.5	15
16	56	74.5	56	0	18.5	15
20	63	94.5	63	0	31.5	16
25	63.5	95	63.5	0	31.5	16
32	97	112	69.5	27.5	42.5	20
40	97	112	76	21	36	20
50	106.5	128	82	24.5	46	22
63	106.5	128	87	19.5	41	22
80	125	152	106.5	18.5	45.5	28
100	147	172	126	21	46	35

\* The standard stroke for ø12 and ø16 is 100 st.

**With Lube-retainers on both sides** (mm)

Bore size (mm)	AW	B	EW	FB	FT	MT	HT
12	63	52	6	15	5	5	57
16	67	56	6	15	5	6	64
20	74	63	6	16	5	6	80
25	74.5	63.5	6	16	5	7	92
32	82.5	69.5	7	20	6	8.5	110
40	89	76	7	20	6	8.5	118
50	95	82	7	22	6	11	146
63	100	87	7	22	6	11	160
80	120.5	106.5	8	28	6	14	200
100	143	126	8	35	9	16	238

