

# 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) |
|--------|------------------------|-------|---------------------------|--|--------------------------|
| CM2    | Air Cylinder           | CM2   | Double acting, Single rod | Compatible with cylinders with rubber bumper | Web Catalog              |
| CQS    | Compact Cylinder       | CQS   | Double acting, Single rod |  |                          |
| CQ2    | Compact Cylinder       | CQ2-Z | Double acting, Single rod | Applicable to ø32 to ø100.                   |                          |
| MGP    | Compact Guide Cylinder | MGP   | Double acting, Single rod |  |                          |

### 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 |
|----------------|---|----------------------------|
| 20             | 25, 50, 75, 100, 125,<br>150, 200, 250, 300 | 0.1 MPa                    |
| 25             |   |                            |
| 32             |   |                            |
| 40             |   |                            |

**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 |
|----------------|---------------------------------------|----------------------------|
| 12, 16         | 5, 10, 15, 20, 25, 30                 | 0.14 MPa                   |
| 20, 25         | 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 |
|----------------|---|----------------------------|
| 32, 40         | 5, 10, 15, 20, 25, 30,<br>35, 40, 45, 50, 75, 100 | 0.1 MPa                    |
| 50 to 100      | 10, 15, 20, 25, 30,<br>35, 40, 45, 50, 75, 100    | 0.1 MPa                    |

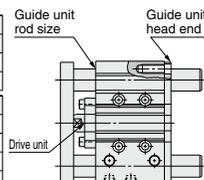
**MGPM** [Bore size] - [Stroke] - [Auto switch] [Suffix] - **XC92**  
 Dust resistant actuator

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

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

| XC92  | Bore size |             | Minimum operating pressure |
|-------|-----------|-------------|----------------------------|
|       | ø12, ø16  | ø20 to ø100 |                            |
|       | ø12, ø16  | ø20 to ø100 | 0.2 MPa                    |
|       | ø12, ø16  | ø20 to ø100 | 0.15 MPa                   |
| XC92W | Bore size |             | Minimum operating pressure |
|       | ø12, ø16  | ø20 to ø100 |                            |
|       | ø12, ø16  | ø20 to ø100 | 0.25 MPa                   |
|       | ø12, ø16  | ø20 to ø100 | 0.2 MPa                    |



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

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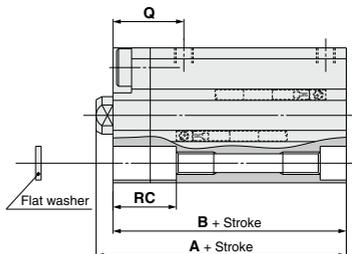
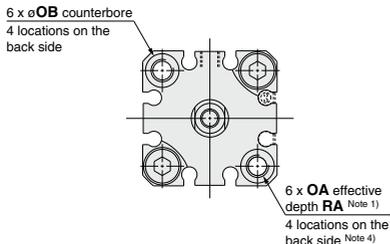
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**Dimensions** (Other dimensions are the same as the standard type.)

**CM2 series: The same as the standard type**

**CQS series**



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.

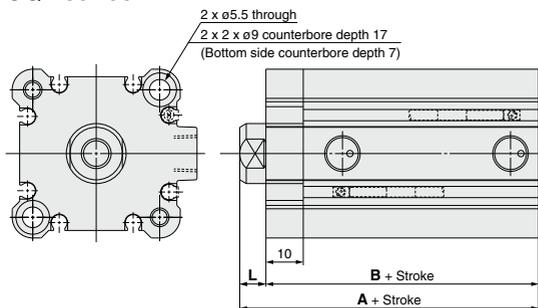
Note 3) For models with a rubber bumper, the stroke tolerance does not include bumper deflection.

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.

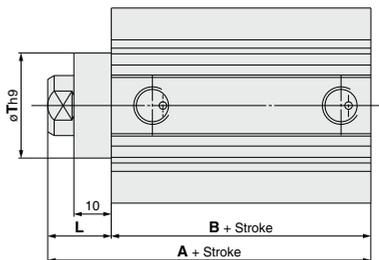
| Bore size (mm) | A                   |                  | B                   |                  | Q    | OA       | OB  | RA | RC |
|----------------|---------------------|------------------|---------------------|------------------|------|----------|-----|----|----|
|                | Without auto 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 |

(mm)

**CQ2 series**



$\phi 32$



$\phi 40$  to  $\phi 100$

| Bore size (mm) | A                   |                  | B                   |                  | L  | T  |
|----------------|---------------------|------------------|---------------------|------------------|----|----|
|                | Without auto switch | With auto switch | Without auto switch | With auto switch |    |    |
| 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 |

(mm)

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.

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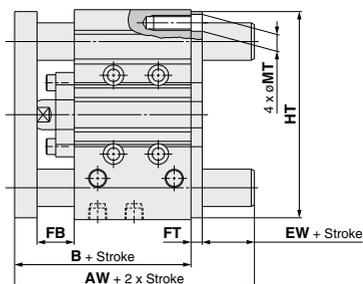
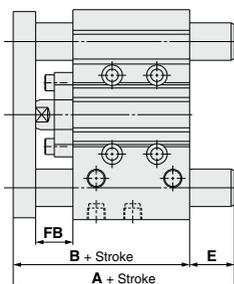


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**Dimensions** (Other dimensions are the same as the standard type.)

### 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* |    |
| <b>12</b>      | 52            | 70.5                           | 52    | 0             | 18.5                           | 15 |
| <b>16</b>      | 56            | 74.5                           | 56    | 0             | 18.5                           | 15 |
| <b>20</b>      | 63            | 94.5                           | 63    | 0             | 31.5                           | 16 |
| <b>25</b>      | 63.5          | 95                             | 63.5  | 0             | 31.5                           | 16 |
| <b>32</b>      | 97            | 112                            | 69.5  | 27.5          | 42.5                           | 20 |
| <b>40</b>      | 97            | 112                            | 76    | 21            | 36                             | 20 |
| <b>50</b>      | 106.5         | 128                            | 82    | 24.5          | 46                             | 22 |
| <b>63</b>      | 106.5         | 128                            | 87    | 19.5          | 41                             | 22 |
| <b>80</b>      | 125           | 152                            | 106.5 | 18.5          | 45.5                           | 28 |
| <b>100</b>     | 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  |
|----------------|-------|-------|----|----|----|-----|-----|
| <b>12</b>      | 63    | 52    | 6  | 15 | 5  | 5   | 57  |
| <b>16</b>      | 67    | 56    | 6  | 15 | 5  | 6   | 64  |
| <b>20</b>      | 74    | 63    | 6  | 16 | 5  | 6   | 80  |
| <b>25</b>      | 74.5  | 63.5  | 6  | 16 | 5  | 7   | 92  |
| <b>32</b>      | 82.5  | 69.5  | 7  | 20 | 6  | 8.5 | 110 |
| <b>40</b>      | 89    | 76    | 7  | 20 | 6  | 8.5 | 118 |
| <b>50</b>      | 95    | 82    | 7  | 22 | 6  | 11  | 146 |
| <b>63</b>      | 100   | 87    | 7  | 22 | 6  | 11  | 160 |
| <b>80</b>      | 120.5 | 106.5 | 8  | 28 | 6  | 14  | 200 |
| <b>100</b>     | 143   | 126   | 8  | 35 | 9  | 16  | 238 |