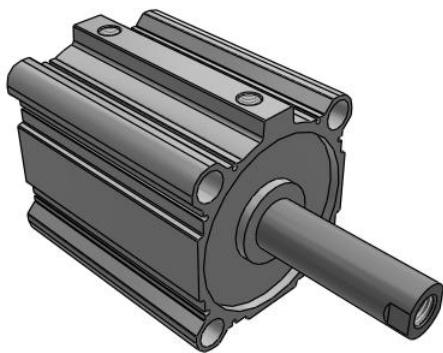




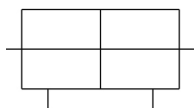
## C(D)Q2WB, Compact Cylinder, Double Acting Double Rod, Large Bore w/Auto Switch Mounting Groove

CDQ2WB125-100DCZ

Datasheet

### General series information

- Compact, double acting, double rod, large bore
- Bore sizes (mm): 125, 140, 160, 180, 200
- Standard stroke range (mm): 10 to 300
- Port threads: Rc, NPT, G
- Can mount small auto switches on 4 surfaces.



Double-acting cylinder with double piston rod

### Standard specifications

|                                                    |                                        |
|----------------------------------------------------|----------------------------------------|
| Magnet                                             | D (Built-in)                           |
| Bore Size                                          | Ø125 mm                                |
| Port Thread Type                                   | Rc                                     |
| Stroke                                             | 100 mm                                 |
| Body Option                                        | Standard (Rod End Female Thread)       |
| Auto Switch                                        | No Switch                              |
| Lead Wire or Prewired Connector                    | 0.5 m or None in the Case of No Switch |
| Number                                             | 2 pcs.                                 |
| Rod End Options                                    | None                                   |
| Fluororubber Seal                                  | None                                   |
| Pressure medium                                    | Compressed air                         |
| Maximum temperature of pressure medium with magnet | 60 °C                                  |
| Minimum temperature of pressure medium with magnet | -10 °C                                 |
| Maximum operating pressure                         | 1.0 MPa                                |
| Minimum operating pressure                         | 0.05 MPa                               |
| Proof pressure                                     | 1.5 MPa                                |
| Maximum ambient temperature with magnet            | 60 °C                                  |
| Minimum ambient temperature with magnet            | -10 °C                                 |

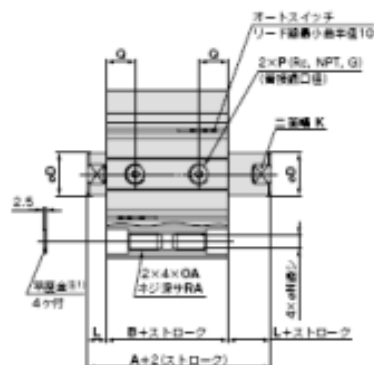
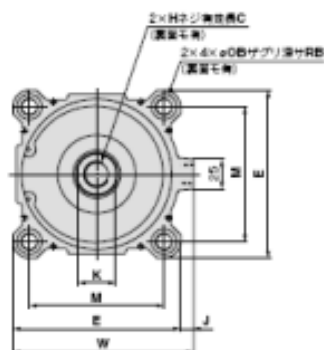
|                                                         |               |
|---------------------------------------------------------|---------------|
| Number of pneumatic connections                         | 2 pcs.        |
| Pneumatic input connection                              | Rc 3/8        |
| Mode of operation of drive                              | Double acting |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 5,627 N       |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 5,627 N       |
| Maximum piston speed                                    | 500 mm/s      |
| Piston rod end                                          | Male thread   |
| Male thread of rod end                                  | M30 x 1.5     |
| Female thread of rod end                                | M22 x 2.5     |
| Minimum piston speed                                    | 50 mm/s       |

# Dimensions

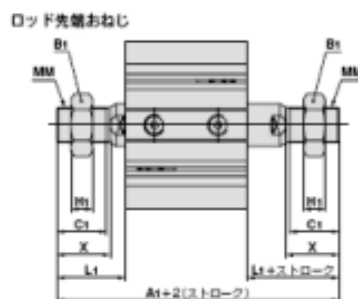
## CQ2W Series チューブ内径 $\phi 125 \sim \phi 160$

標準形(通し穴タイプ)/C□Q2WB

オートスイッチなし、付とも外形寸法は同じです。



| ロッド先端おねじの場合 (mm) |                |                |                |                |                |         |    |
|------------------|----------------|----------------|----------------|----------------|----------------|---------|----|
| チューブ内径<br>(mm)   | A <sub>s</sub> | B <sub>s</sub> | C <sub>s</sub> | H <sub>s</sub> | L <sub>s</sub> | MM      | X  |
| 125              | 199            | 48             | 42             | 18             | 58             | M50×1.5 | 45 |
| 140              | 199            | 48             | 42             | 18             | 58             | M50×1.5 | 45 |
| 160              | 219            | 55             | 47             | 21             | 64             | M56×1.5 | 50 |

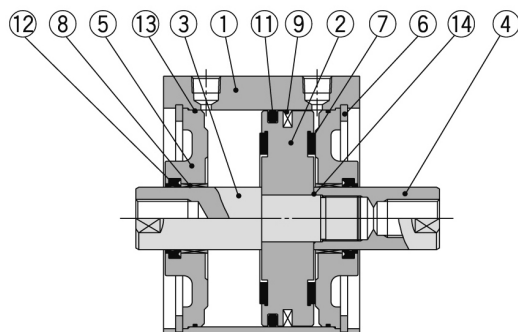


| チューブ内径 | 標準ストローク範囲          | A   | B  | C□□      | D  | E   | H       | J  | K  | L  | M   | N    | OA    | OB | P | Q   | RA   | RB | W    |     |
|--------|--------------------|-----|----|----------|----|-----|---------|----|----|----|-----|------|-------|----|---|-----|------|----|------|-----|
| 125    | 10, 20, 30, 40, 50 | 115 | 83 | 30(22.5) | 38 | 142 | M22×2.5 | 11 | 32 | 18 | 114 | 12.5 | M14×2 | 21 | 2 | 3/8 | 24.5 | 25 | 18.4 | 153 |
| 140    | 75, 100, 125, 150  | 115 | 83 | 30(22.5) | 38 | 158 | M22×2.5 | 10 | 32 | 18 | 128 | 12.5 | M14×2 | 21 | 2 | 3/8 | 24.5 | 25 | 18.4 | 168 |
| 160    | 175, 200, 250, 300 | 125 | 91 | 33(25.5) | 40 | 178 | M24×3   | 10 | 38 | 17 | 144 | 14.5 | M16×2 | 24 | 2 | 3/8 | 27.5 | 28 | 21.2 | 188 |

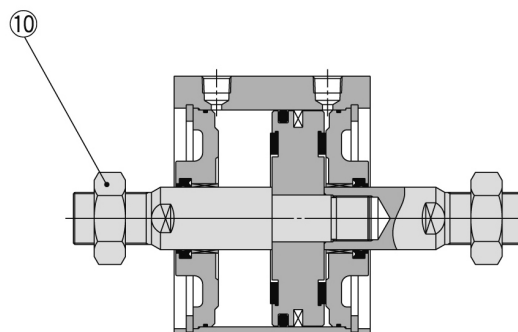
注1) 通し穴でシリンダを取り付ける際は、付属の平面図を必ずご使用ください。  
 注2) ( )内数値は、10ストロークのみの場合の片側の有効長さを示します。  
 ※両方のロッド二重棒は同一ではありません。

## Constructions

**Standard**



**Rod end male thread**



### Component Parts

| No. | Description           | Material          | Note               |
|-----|-----------------------|-------------------|--------------------|
| 1   | <b>Cylinder tube</b>  | Aluminum alloy    | Hard anodised      |
| 2   | <b>Piston</b>         | Aluminum alloy    | Chromated          |
| 3   | <b>Piston rod A</b>   | Carbon steel      | Hard chrome plated |
| 4   | <b>Piston rod B</b>   | Carbon steel      | Hard chrome plated |
| 5   | <b>Rod cover</b>      | Carbon steel      | Nickel plated      |
| 6   | <b>Retaining ring</b> | Carbon tool steel | Phosphate coated   |
| 7   | <b>Bumper</b>         | Resin             |                    |
| 8   | <b>Bushing</b>        | Bearing alloy     |                    |
| 9   | <b>Magnet</b>         | —                 | For CDQ2WB□ only   |
| 10  | <b>Rod end nut</b>    | Carbon steel      | Nickel plated      |
| 11  | <b>Piston seal</b>    | NBR               |                    |
| 12  | <b>Rod seal</b>       | NBR               |                    |
| 13  | <b>Tube gasket</b>    | NBR               |                    |
| 14  | <b>Piston gasket</b>  | NBR               |                    |

### Replacement Parts/Seal Kit

| Bore size (mm) | Kit no.     | Contents                                   |
|----------------|-------------|--------------------------------------------|
| <b>125</b>     | CQ2WB125-PS | Kits include items ⑪, ⑫, ⑬ from the table. |
| <b>140</b>     | CQ2WB140-PS |                                            |
| <b>160</b>     | CQ2WB160-PS |                                            |
| <b>180</b>     | CQ2WB180-PS |                                            |
| <b>200</b>     | CQ2WB200-PS |                                            |

\* Seal kit includes ⑪, ⑫, ⑬. Order the seal kit, based on each bore size.

\* Since the seal kit does not include a grease pack, order it separately.

**Grease pack part no.:** GR-S-010 (10 g)

## Additional information

Catalogue

[CQ2-Z-D\\_EU.pdf](#)