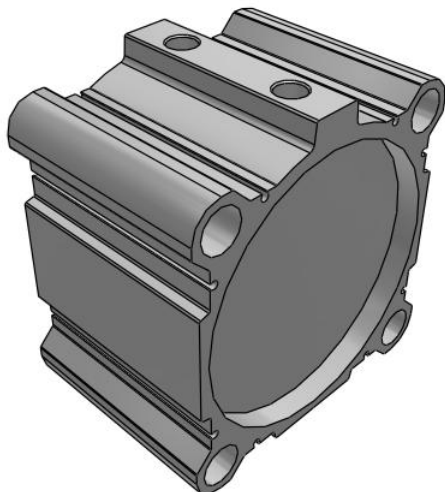




## C(D)Q2, Compact Cylinder, Double Acting, Single Rod, Large Bore w/Auto Switch Mounting Groove

### CDQ2B140-25DCZ

Datasheet

### General series information

- Compact, double acting, single 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, single-rod cylinder

### Standard specifications

|                                                    |                                          |
|----------------------------------------------------|------------------------------------------|
| Magnet                                             | D (Built-in)                             |
| Bore Size                                          | Ø140 mm                                  |
| Port Thread                                        | Rc                                       |
| Stroke                                             | 25                                       |
| Body Option                                        | Standard (Rod End Female Thread)         |
| Auto Switch                                        | No Switch                                |
| Lead Wire or Pre-wired 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) | 7,697 N       |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 7,188 N       |
| Maximum piston speed                                    | 500 mm/s      |
| Piston rod end                                          | Male thread   |
| Geometric form of the piston rod                        | Single rod    |
| Male thread of rod end                                  | M30 x 1.5     |
| Female thread of rod end                                | M22 x 2.5     |
| Minimum piston speed                                    | 50 mm/s       |
| Weight                                                  | 6.633 Kg      |

# Dimensions

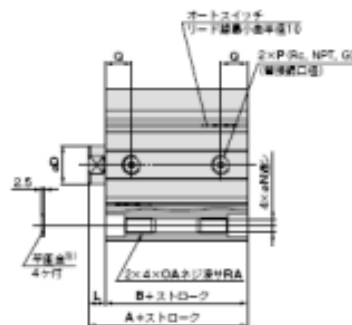
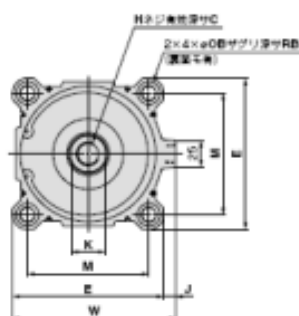
## CQ2 Series

チューブ内径

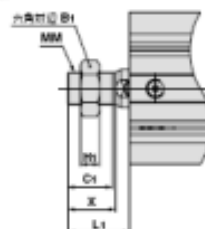
φ125~φ160

標準形(通し穴タイプ)/C□Q2B

オートスイッチなし、付とも外形寸法は同じです。



ロッド先端ねじ



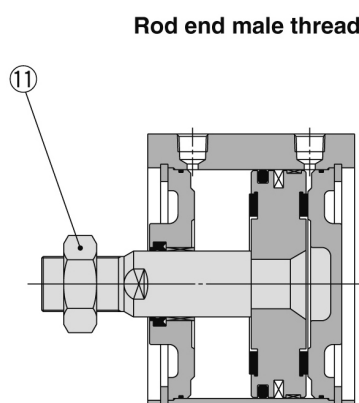
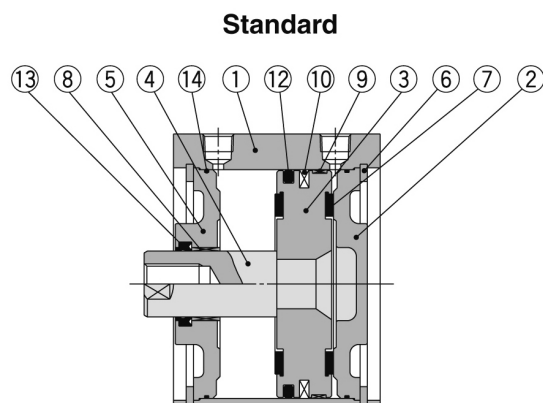
ロッド先端ねじの場合 (mm)

| チューブ径<br>(mm) | B1 | C1 | H1 | L1 | MM       | X  |
|---------------|----|----|----|----|----------|----|
| 125           | 46 | 42 | 18 | 58 | M3.0×1.5 | 45 |
| 140           | 46 | 42 | 18 | 58 | M3.0×1.5 | 45 |
| 160           | 55 | 47 | 21 | 64 | M3.6×1.5 | 50 |

| チューブ径 | 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  | 99 | 83 | 50 | 56 | 125 | M22×2.5 | 11 | 33 | 16 | 11.5 | 12.5 | M14×2 | 12 | 35 | 24.5 | 25 | 18 | 163 |
| 140   | 7.5, 100, 125, 150  | 99 | 83 | 50 | 56 | 125 | M22×2.5 | 10 | 32 | 16 | 12   | 12.5 | M14×2 | 11 | 35 | 24.5 | 25 | 18 | 166 |
| 160   | 17.5, 200, 250, 300 | 99 | 91 | 53 | 62 | 128 | M24×3   | 10 | 36 | 17 | 14.5 | 14.5 | M16×2 | 14 | 38 | 27.5 | 28 | 21 | 186 |

注) 通し穴でシリンダを動作させる際は、付属の平圧素子必ずご使用ください。

## Constructions



### Component Parts

| No. | Description    | Material          | Note               |
|-----|----------------|-------------------|--------------------|
| 1   | Cylinder tube  | Aluminum alloy    | Hard anodised      |
| 2   | Head cover     | Carbon steel      | Nickel plated      |
| 3   | Piston         | Aluminum alloy    | Chromated          |
| 4   | Piston rod     | Carbon steel      | Hard chrome plated |
| 5   | Rod cover      | Carbon steel      | Nickel plated      |
| 6   | Retaining ring | Carbon tool steel | Phosphate coated   |
| 7   | Bumper         | Urethane          |                    |
| 8   | Bushing        | Bearing alloy     |                    |
| 9   | Wear ring      | Resin             |                    |
| 10  | Magnet         | —                 | For CDQ2B□ only    |
| 11  | Rod end nut    | Carbon steel      | Nickel plated      |
| 12  | Piston seal    | NBR               |                    |
| 13  | Rod seal       | NBR               |                    |
| 14  | Tube gasket    | NBR               |                    |

### Replacement Parts/Seal Kit

| Bore size (mm) | Kit no.    | Contents                                      |
|----------------|------------|-----------------------------------------------|
| 125            | CQ2B125-PS | Kits include items 12, 13, 14 from the table. |
| 140            | CQ2B140-PS |                                               |
| 160            | CQ2B160-PS |                                               |
| 180            | CQ2B180-PS |                                               |
| 200            | CQ2B200-PS |                                               |

\* Seal kit includes 12, 13, 14. 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](#)

Operation manuals

[OM\\_CQ2x\\_OM0002MEN.pdf](#)