



## C(D)Q2, Compact Cylinder, Double Acting Single Rod, Long Stroke w/Auto Switch Mounting Groove CDQ2A40-300DCZ

Datasheet

### General series information

- Compact Cylinder: Long Stroke Double Acting, Single Rod
- Bore sizes (mm): 32, 40, 50, 63, 80, 100
- Standard stroke range (mm): 125 to 300
- Port threads: Rc, NPT or G
- Can mount small auto switches on 4 surfaces.



Double-acting, single-rod cylinder

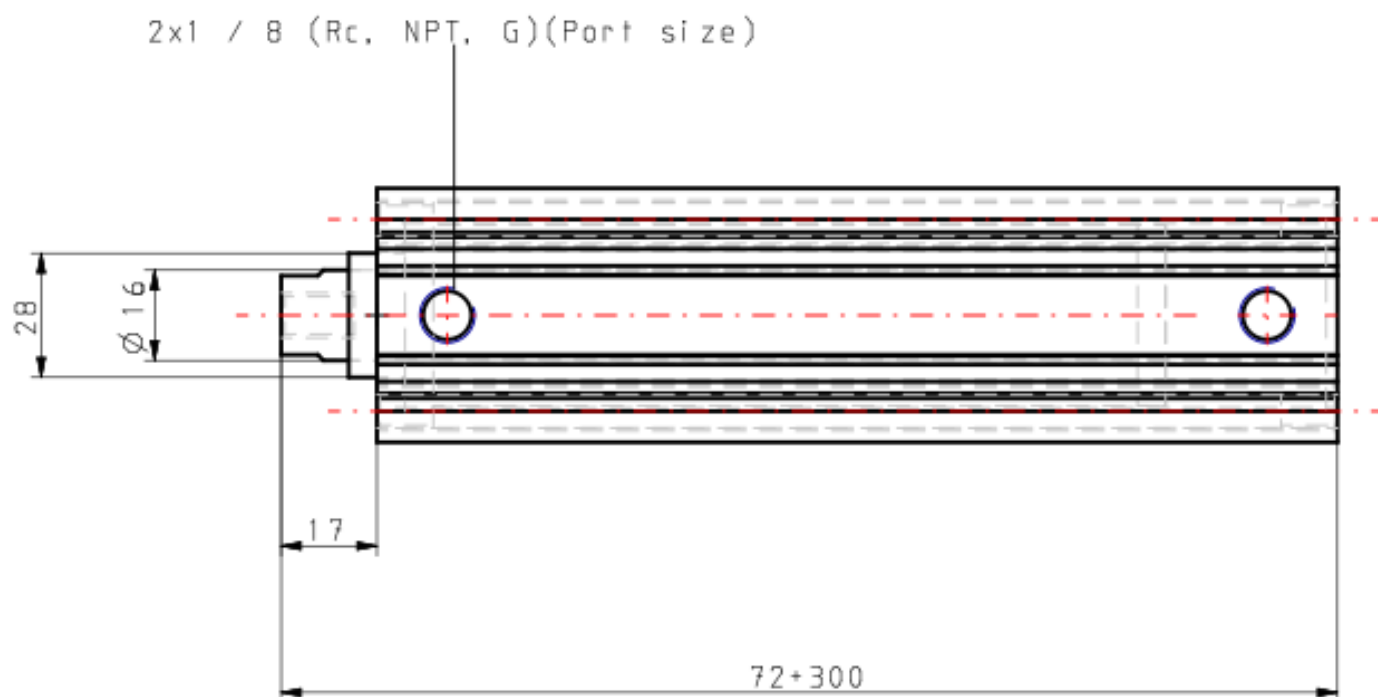
### Standard specifications

|                                                    |                                        |
|----------------------------------------------------|----------------------------------------|
| Magnet                                             | D (Built-in)                           |
| Mounting                                           | A (Both Ends Tapped)                   |
| Type                                               | Standard                               |
| Bore Size                                          | Ø40 mm                                 |
| Port Thread Type                                   | Rc                                     |
| Stroke                                             | 300                                    |
| Cushion                                            | C (Rubber Bumper)                      |
| 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                                   |
| Made of Stainless Steel                            | 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 1/8        |
| Mode of operation of drive              | Double acting |
| Maximum piston speed                    | 500 mm/s      |
| Type of cushioning                      | Elastically   |
| Piston rod end                          | Female-Thread |
| Geometric form of the piston rod        | Single rod    |
| Male thread of rod end                  | M14 x 1.5     |
| Female thread of rod end                | M8 x 1.25     |
| Minimum piston speed                    | 50 mm/s       |
| Weight                                  | 1.671 Kg      |

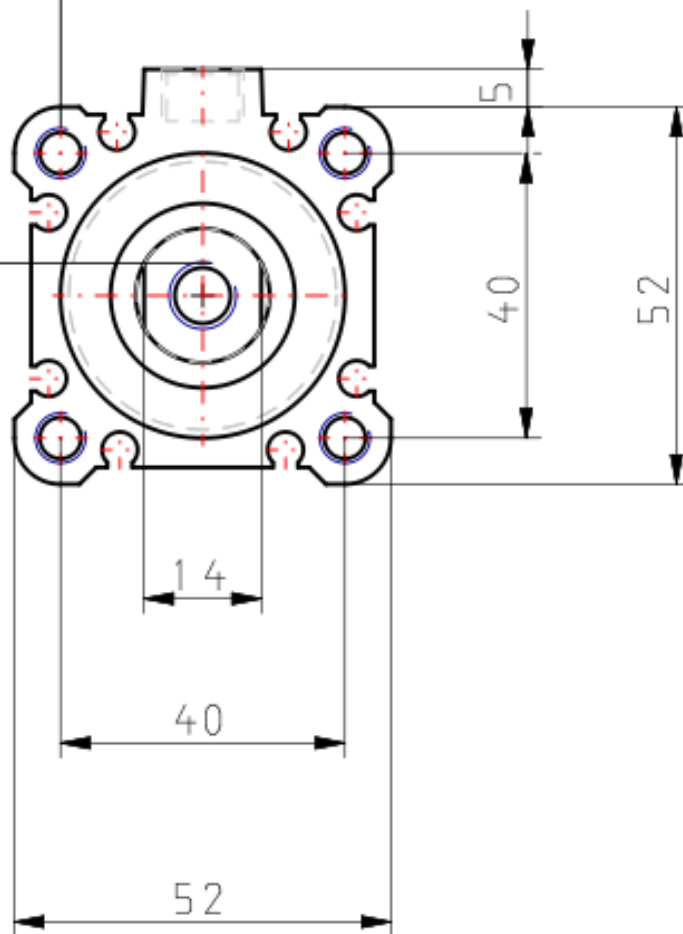
## Dimensions



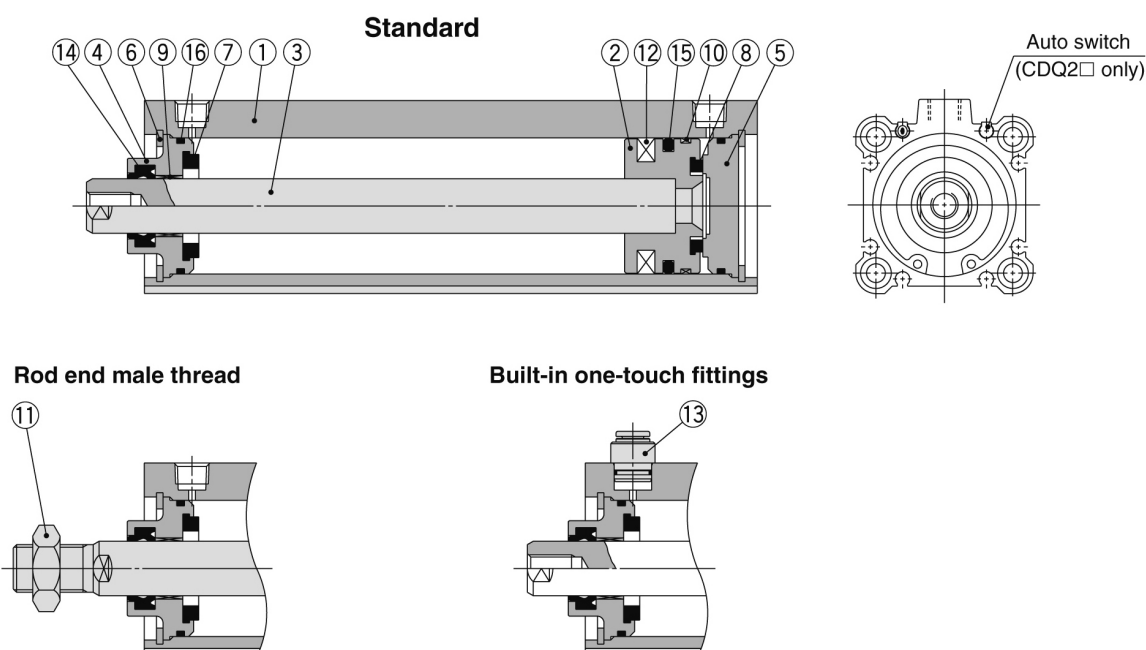


M8 x 1.25 thread effective depth 13

8xM6 x 1.0 thread effective depth 10



## Constructions



### Component Parts

| No. | Description       | Material          | Note               |
|-----|-------------------|-------------------|--------------------|
| 1   | Cylinder tube     | Aluminum alloy    | Hard anodised      |
| 2   | Piston            | Aluminum alloy    | Chromated          |
| 3   | Piston rod        | Carbon steel      | Hard chrome plated |
| 4   | Collar            | Aluminum alloy    | Anodised           |
| 5   | Bottom plate      | Aluminum alloy    | Anodised           |
| 6   | Retaining ring    | Carbon tool steel | Phosphate coated   |
| 7   | Bumper A          | Urethane          |                    |
| 8   | Bumper B          | Urethane          |                    |
| 9   | Bushing           | Bearing alloy     |                    |
| 10  | Wear ring         | Resin             |                    |
| 11  | Rod end nut       | Carbon steel      | Nickel plated      |
| 12  | Magnet            | —                 | For CDQ2A□ only    |
| 13  | One-touch fitting | —                 | ø32 to ø63         |
| 14* | Rod seal          | NBR               |                    |
| 15* | Piston seal       | NBR               |                    |
| 16* | Tube gasket       | NBR               |                    |

### Replacement Parts/Seal Kit

| Bore size (mm) | Kit no.      | Contents                                      |
|----------------|--------------|-----------------------------------------------|
| 32             | CQ2A32-L-PS  | Kits include items 14, 15, 16 from the table. |
| 40             | CQ2A40-L-PS  |                                               |
| 50             | CQ2A50-L-PS  |                                               |
| 63             | CQ2A63-L-PS  |                                               |
| 80             | CQ2A80-L-PS  |                                               |
| 100            | CQ2A100-L-PS |                                               |

\* Seal kit includes 14, 15, 16. 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         | <a href="#">CQ2-Z-D_EU.pdf</a>        |
| Operation manuals | <a href="#">OM_CQ2x_OM0002MEN.pdf</a> |