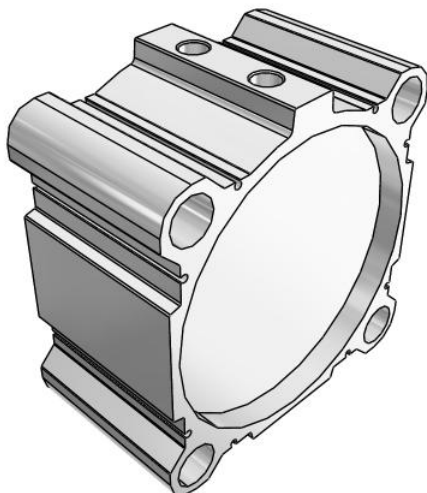
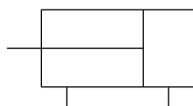




## C(D)Q2, Compact Cylinder, Double Acting, Single Rod, Large Bore w/Auto Switch Mounting Groove CQ2B160-10DCZ

### Datasheet

Following a review of our popular CQ2 compact cylinder Series our R&D engineers have totally redesigned the complete cylinder range to bring you even more performance benefits and increased cylinder options. The major difference between the new CQ2 range and the old model is the totally redesigned body, which offers improved auto-switch mounting possibilities plus an overall reduction of cylinder weight of between 5 -13% depending on the model. Now, all CQ2 cylinders from Ø 32 to 200mm are designed with slide in grooves which can accommodate auto-switches on all four cylinder sides without the need for auto-switch brackets. And, for smaller bore sizes between Ø 12 and 25mm, slide in grooves have also been integrated in the new body design to accommodate bracket free auto-switches on two surfaces. Designed for use with our simple to set, dual colour, solid state auto-switches, the integrated auto-switch channel ensures total protection against potential accidental damage and improved health and safety benefits during both installation and maintenance procedures.



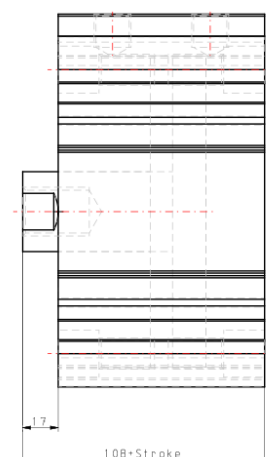
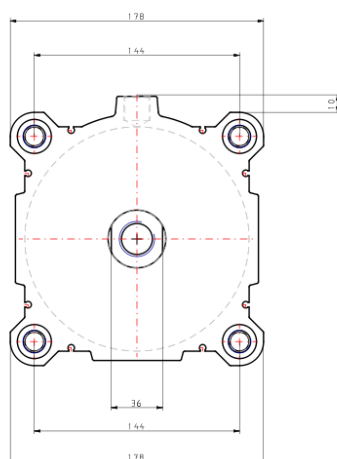
Double-acting, single-rod cylinder

### Standard specifications

|                                        |                                        |
|----------------------------------------|----------------------------------------|
| Magnet                                 | None                                   |
| Bore Size                              | Ø160 mm                                |
| Port Thread Type                       | Rc                                     |
| Stroke                                 | 10                                     |
| 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 | 70 °C                                  |
| Minimum temperature of pressure medium | -10 °C                                 |
| Maximum operating pressure             | 1.0 MPa                                |

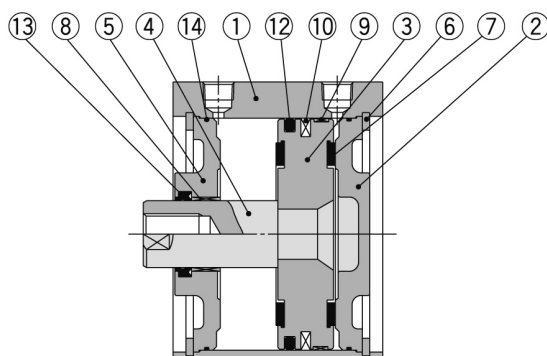
|                                                         |               |
|---------------------------------------------------------|---------------|
| Minimum operating pressure                              | 0.05 MPa      |
| Proof pressure                                          | 1.5 MPa       |
| Maximum ambient temperature                             | 70 °C         |
| Minimum ambient temperature                             | -10 °C        |
| Conform to the European RoHS Directive                  | Conform       |
| Numero 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) | 9,425 N       |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 10,053 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                                  | M36 x 1.5     |
| Female thread of rod end                                | M24 x 3       |
| Minimum piston speed                                    | 50 mm/s       |
| Weight                                                  | 8.998 Kg      |

## Dimensions

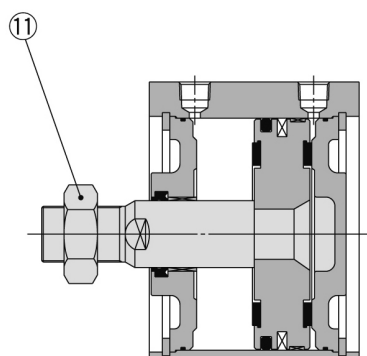


## Constructions

**Standard**



**Rod end male thread**



### 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-B\\_EU.pdf](#)