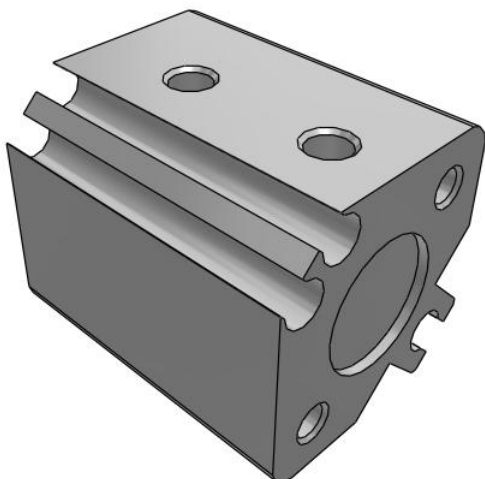
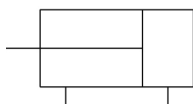




## C(D)Q2, Compact Cylinder, Double Acting, Single Rod w/Auto Switch Mounting Groove CDQ2A12-5DCZ

### 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.

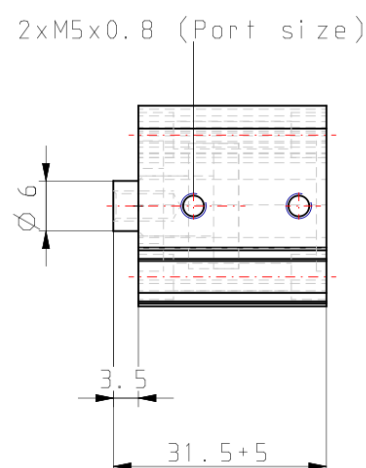
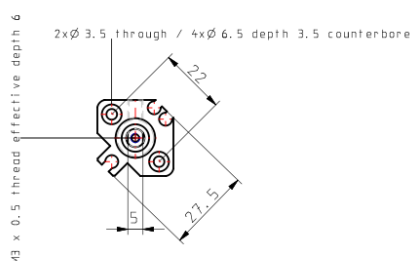


### Standard specifications

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Magnet                          | D (Built-in)                         |
| Mounting                        | A (Both Ends Tapped)                 |
| Type                            | Standard                             |
| Bore Size                       | Ø12 mm                               |
| Port Thread Type                | Rc                                   |
| Lube-retainer                   | Without Stable Lubrication Function  |
| Stroke                          | 5                                    |
| Body Option                     | C [Rubber Bumper]                    |
| Auto Switch Groove              | None, also for 12-25 Bore w/o Magnet |
| Mounting Bolt                   | None                                 |
| Rod End Bracket                 | None                                 |
| Auto Switch                     | No Switch                            |
| Lead Wire or Prewired Connector | Z (5 m)                              |
| Number                          | 2 pcs.                               |

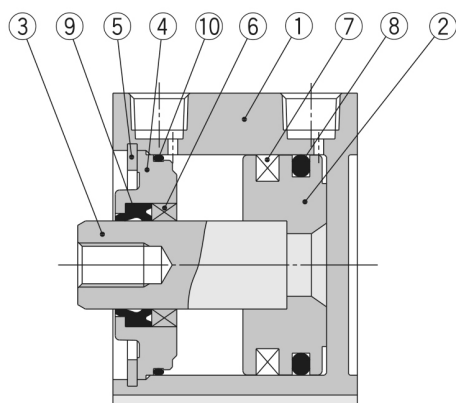
|                                                         |                |
|---------------------------------------------------------|----------------|
| Rod End Options                                         | None           |
| Temperature Resistance                                  | None           |
| Low Speed                                               | None           |
| Made of Stainless Steel                                 | None           |
| Fluororubber Seal                                       | None           |
| Pressure medium                                         | Compressed air |
| Maximum temperature of pressure medium                  | 60 °C          |
| Minimum temperature of pressure medium                  | -10 °C         |
| Maximum operating pressure                              | 1.0 MPa        |
| Minimum operating pressure                              | 0.07 MPa       |
| Proof pressure                                          | 1.5 MPa        |
| Maximum ambient temperature                             | 60 °C          |
| Minimum ambient temperature                             | -10 °C         |
| Conform to the European RoHS Directive                  | Not conform    |
| Number of pneumatic connections                         | 2 pcs.         |
| Pneumatic input connection                              | M5             |
| Mode of operation of drive                              | Double acting  |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 57 N           |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 42 N           |
| Maximum piston speed                                    | 500 mm/s       |
| Geometric form of the piston rod                        | Single rod     |
| Male thread of rod end                                  | M5 x 0.8       |
| Female thread of rod end                                | M3 x 0.5       |
| Minimum piston speed                                    | 50 mm/s        |
| Weight                                                  | 0.040 Kg       |

## Dimensions





## Constructions



### 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</b>     | Stainless steel       | ø12 to ø25                      |
|     |                       | Carbon steel          | ø32 to ø100, Hard chrome plated |
| 4   | <b>Collar</b>         | Aluminum alloy        | ø12 to ø40, Anodised            |
|     |                       | Aluminum alloy casted | ø50 to ø100, Chromated, Painted |
| 5   | <b>Retaining ring</b> | Carbon tool steel     | Phosphate coated                |
| 6   | <b>Bushing</b>        | Bearing alloy         | For ø50 or more only            |
| 7   | <b>Magnet</b>         | —                     |                                 |
| 8   | <b>Piston seal</b>    | NBR                   |                                 |
| 9   | <b>Rod seal</b>       | NBR                   |                                 |
| 10  | <b>Gasket</b>         | NBR                   |                                 |

## Additional information

Catalogue

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