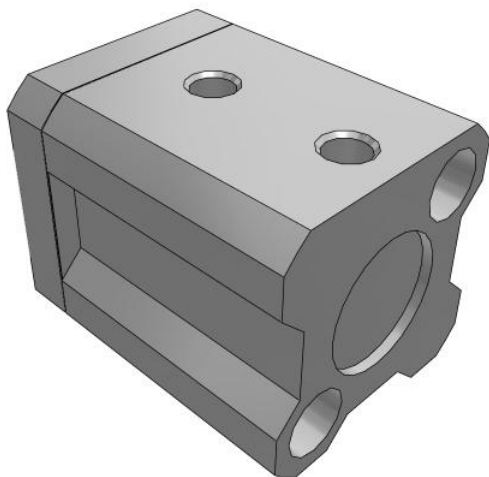




## C(D)Q2K, Compact Cylinder, Double Acting, Single Rod, Non-rotating w/Auto Switch Mounting Groove CQ2KB12-10D

Datasheet

### General series information

- Double acting, single rod, non-rotating compact cylinder
- Bore sizes (mm): 12, 16, 20, 25, 32, 40, 50, 63
- Standard stroke range (mm): 5 to 100
- Port threads: M (12 to 25 bore); Rc, NPT or G (32 to 63 bore)
- Can mount small auto switches on 4 surfaces.



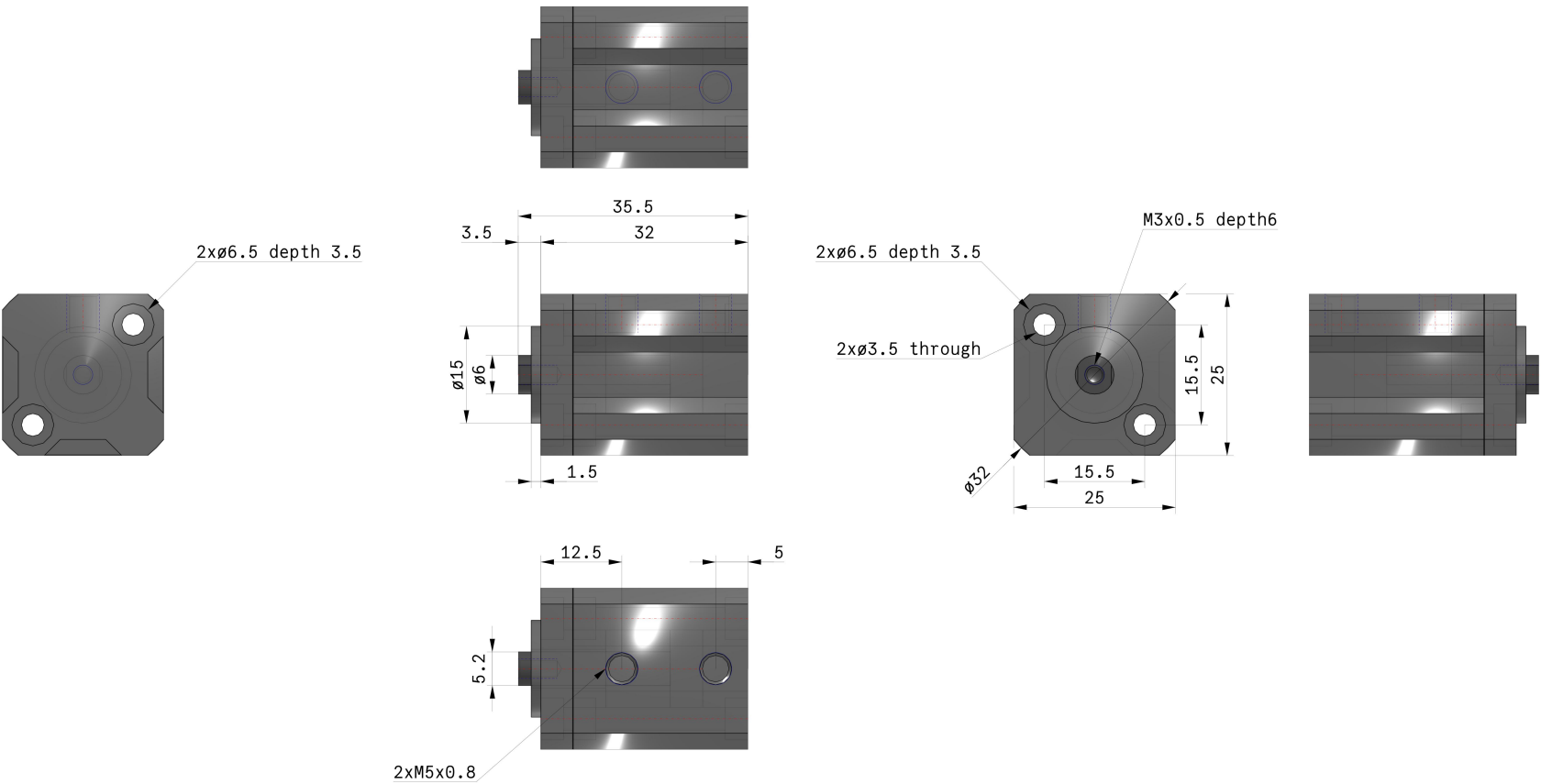
Double-acting, single-rod cylinder

### Standard specifications

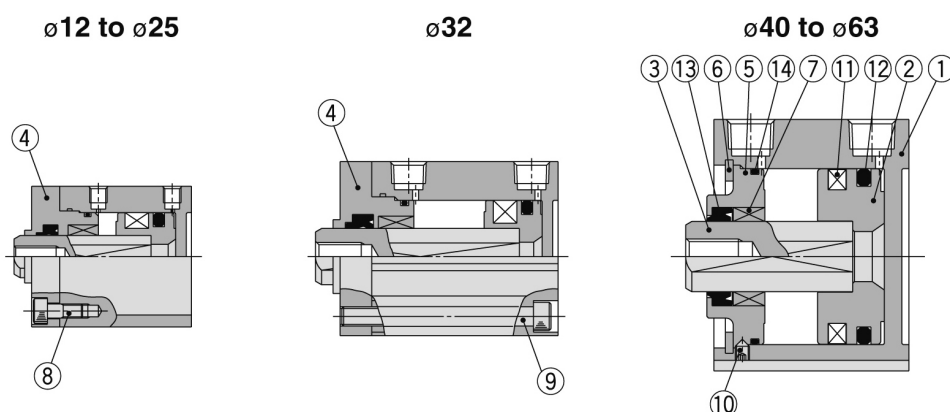
|                                        |                                                     |
|----------------------------------------|-----------------------------------------------------|
| Magnet                                 | None                                                |
| Mounting                               | B (Through Hole [Standard; 12 through 63 Bore])     |
| Bore Size                              | Ø12 mm                                              |
| Port Thread Type                       | Rc (or M Thread for 16 & 20 Bore or 32 stroke 5 mm) |
| Stroke                                 | 10                                                  |
| Body Option                            | Standard (Rod End Female Thread)                    |
| Auto Switch Groove                     | None [for 12-25 Bore w/o Magnet]                    |
| 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                                                |
| Pressure medium                        | Compressed air                                      |
| Maximum temperature of pressure medium | 70 °C                                               |
| Minimum temperature of pressure medium | -10 °C [without condensation]                       |
| Maximum operating pressure             | 1.0 MPa                                             |
| Minimum operating pressure             | 0.07 MPa                                            |
| Proof pressure                         | 1.5 MPa                                             |
| Maximum ambient temperature            | 70 °C                                               |

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Minimum ambient temperature                             | -10 °C [without condensation] |
| 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                                                  | 0.047 Kg                      |

Dimensions



## Constructions



### Component Parts

| No. | Description                   | Material                       | Note                           |
|-----|-------------------------------|--------------------------------|--------------------------------|
| 1   | Cylinder tube                 | Aluminum alloy                 | Hard anodised                  |
| 2   | Piston                        | Aluminum alloy                 | Chromated                      |
| 3   | Piston rod                    | Stainless steel                | ø12 to ø25                     |
|     |                               | Carbon steel                   | ø32 to ø63, Hard chrome plated |
| 4   | Rod cover                     | Brass                          | ø12, Electroless nickel plated |
|     |                               | Aluminum alloy                 | ø16 to ø32, Anodised           |
| 5   | Collar                        | Aluminum alloy                 | ø40 to ø63, Anodised           |
| 6   | Retaining ring                | Carbon tool steel              | Phosphate coated               |
| 7   | Bushing                       | Oil-impregnated sintered alloy | ø16 to ø63                     |
| 8   | Hexagon socket head cap screw | Alloy steel                    | ø12 to ø25, Nickel plated      |
| 9   | Hexagon socket head cap screw | Alloy steel                    | ø32, Nickel plated             |
| 10  | Hexagon socket head set screw | Alloy steel                    | ø40 to ø63, Nickel plated      |
| 11  | Magnet                        | —                              |                                |
| 12  | Piston seal                   | NBR                            |                                |
| 13  | Rod seal                      | NBR                            |                                |
| 14  | Tube gasket                   | NBR                            |                                |

### Replacement Parts/Seal Kit (Pneumatic type (Non-lube))

| Bore size (mm) | Kit no.    | Contents                                      |
|----------------|------------|-----------------------------------------------|
| 12             | CQ2KB12-PS | Kits include items 12, 13, 14 from the table. |
| 16             | CQ2KB16-PS |                                               |
| 20             | CQ2KB20-PS |                                               |
| 25             | CQ2KB25-PS |                                               |
| 32             | CQ2KB32-PS |                                               |
| 40             | CQ2KB40-PS |                                               |
| 50             | CQ2KB50-PS |                                               |
| 63             | CQ2KB63-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](#)