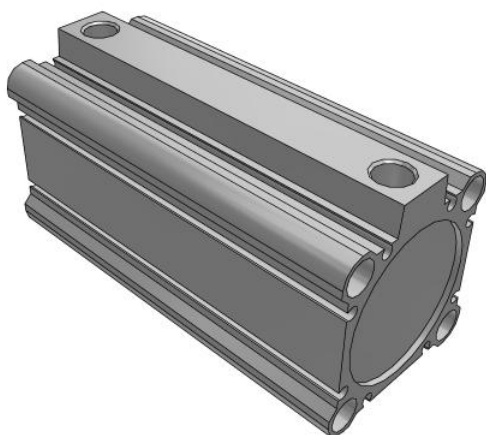




## C(D)Q2, Compact Cylinder, Double Acting, Single Rod w/Auto Switch Mounting Groove CQ2B50-100DZ

Datasheet

### General series information

- Double acting, single rod, compact cylinder
- Bore sizes (mm): 12, 16, 20, 25, 32, 40, 50, 63, 80, 100
- Standard stroke range (mm): 5 to 100
- Port threads: M (12 to 25 bore); Rc, NPT or G (32 to 100 bore)
- Can mount small auto switches on 4 surfaces.

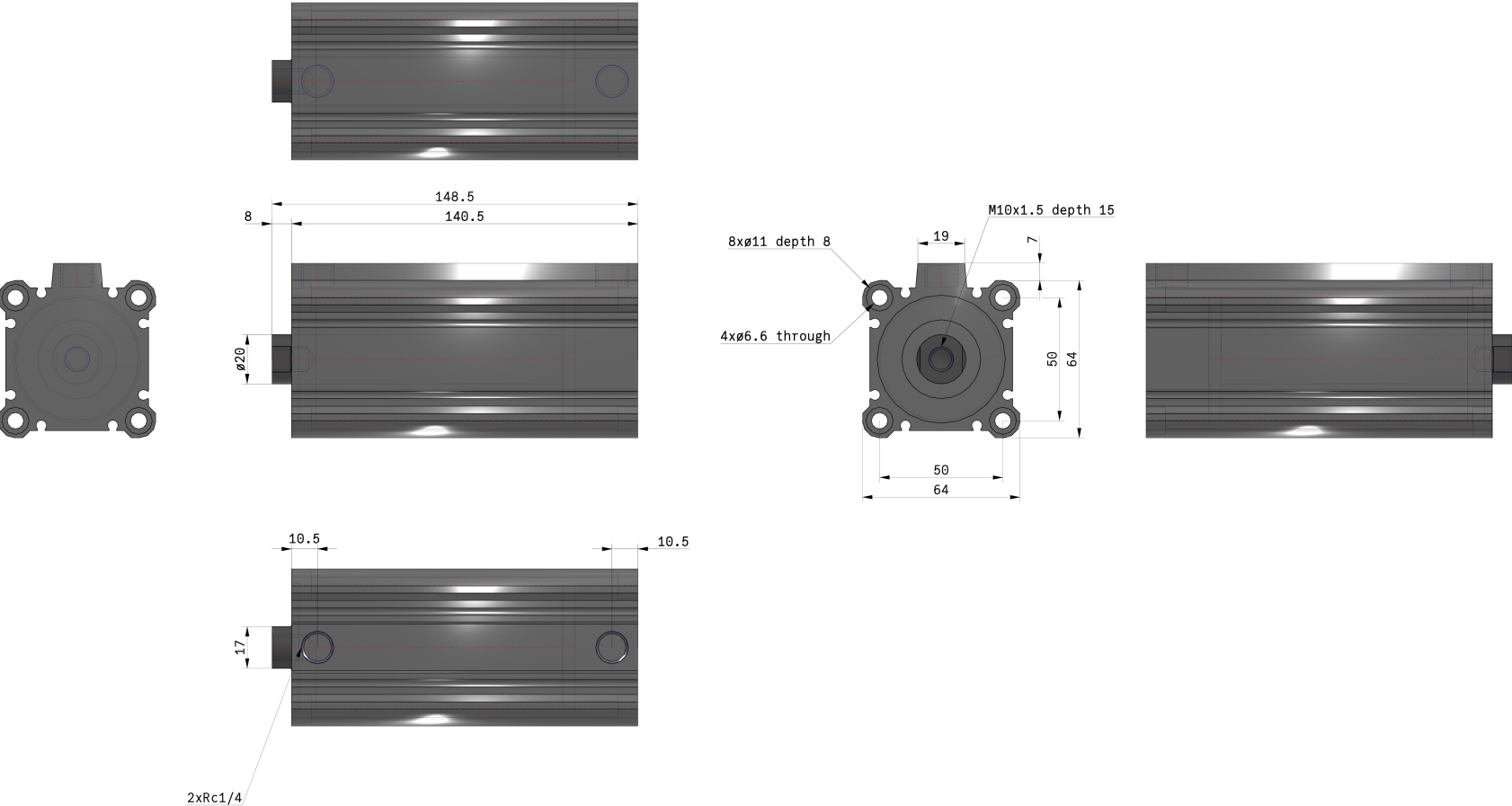


### Standard specifications

|                                 |                                                     |
|---------------------------------|-----------------------------------------------------|
| Magnet                          | None                                                |
| Mounting                        | B (Through Hole [Standard])                         |
| Type                            | Standard                                            |
| Bore Size                       | Ø50 mm                                              |
| Port Thread Type                | Rc (or M Thread for 16 & 20 Bore or 32 stroke 5 mm) |
| Stroke                          | 100                                                 |
| Body Option                     | Standard [Rod End Female Thread]                    |
| Auto Switch Groove              | Z [Auto Switch Mounting Grooves]                    |
| Mounting Bolt                   | None                                                |
| Rod End Bracket                 | None                                                |
| 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                                                |
| Temperature Resistance          | None                                                |
| Low Speed                       | None                                                |
| Made of Stainless Steel         | 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         |
| Number of pneumatic connections                         | 2 pcs.         |
| Pneumatic input connection                              | Rc 1/4         |
| Mode of operation of drive                              | Double acting  |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 982 N          |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 825 N          |
| Maximum piston speed                                    | 500 mm/s       |
| Geometric form of the piston rod                        | Single rod     |
| Male thread of rod end                                  | M18 x 1.5      |
| Female thread of rod end                                | M10 x 1.5      |
| Minimum piston speed                                    | 50 mm/s        |
| Weight                                                  | 1.043 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 ø100, Hard chrome plated |
| 4   | Collar         | Aluminum alloy        | ø12 to ø40, Anodised            |
|     |                | Aluminum alloy casted | ø50 to ø100, Chromated, Painted |
| 5   | Retaining ring | Carbon tool steel     | Phosphate coated                |
| 6   | Bushing        | Bearing alloy         | For ø50 or more only            |
| 7   | Magnet         | —                     |                                 |
| 8   | Piston seal    | NBR                   |                                 |
| 9   | Rod seal       | NBR                   |                                 |
| 10  | Gasket         | NBR                   |                                 |

### Replacement Parts/Seal Kit (Pneumatic type)

| Bore size (mm) | Kit no.    | Contents                                   |
|----------------|------------|--------------------------------------------|
| 12             | CQ2B12-PS  | Kits include items ⑧, ⑨, ⑩ from the table. |
| 16             | CQ2B16-PS  |                                            |
| 20             | CQ2B20-PS  |                                            |
| 25             | CQ2B25-PS  |                                            |
| 32             | CQ2B32-PS  |                                            |
| 40             | CQ2B40-PS  |                                            |
| 50             | CQ2B50-PS  |                                            |
| 63             | CQ2B63-PS  |                                            |
| 80             | CQ2B80-PS  |                                            |
| 100            | CQ2B100-PS |                                            |

- \* Seal kit includes ⑧, ⑨, ⑩. 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)**

### Replacement Parts/Seal Kit (Air-hydro type)

| Bore size (mm) | Kit no.     | Contents                                   |
|----------------|-------------|--------------------------------------------|
| 20             | CQ2BH20-PS  | Kits include items ⑧, ⑨, ⑩ from the table. |
| 25             | CQ2BH25-PS  |                                            |
| 32             | CQ2BH32-PS  |                                            |
| 40             | CQ2BH40-PS  |                                            |
| 50             | CQ2BH50-PS  |                                            |
| 63             | CQ2BH63-PS  |                                            |
| 80             | CQ2BH80-PS  |                                            |
| 100            | CQ2BH100-PS |                                            |

- \* Seal kit includes ⑧, ⑨, ⑩. 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-C_EU.pdf</a>        |
| Operation manuals | <a href="#">OM_CQ2x_OM0002MEN.pdf</a> |