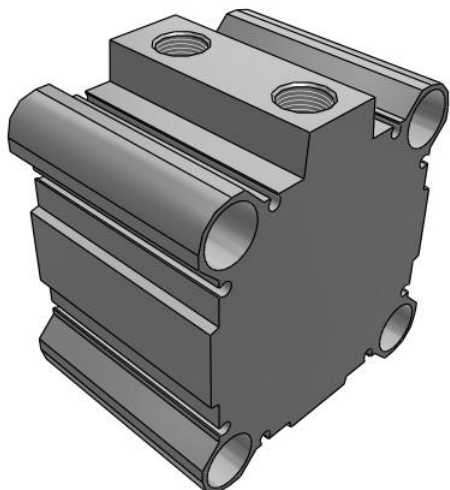




## C(D)Q2\*S, Compact Cylinder, Double Acting, Single Rod, Anti- lateral Load w/Auto Switch Mounting Groove CQ2BS80-20DCZ

Datasheet

### General series information

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



Double-acting, single-rod cylinder

### Standard specifications

|                                        |                                        |
|----------------------------------------|----------------------------------------|
| Magnet                                 | None                                   |
| Mounting                               | B (Through Hole [Standard])            |
| Bore Size                              | Ø80 mm                                 |
| Port Thread Type                       | Rc                                     |
| Stroke                                 | 20                                     |
| Body Option                            | C (Rubber Bumper)                      |
| 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 | 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 3/8        |
| Mode of operation of drive                              | Double acting |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 2268 N        |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 2513 N        |
| Maximum piston speed                                    | 500 mm/s      |
| Geometric form of the piston rod                        | Single rod    |
| Male thread of rod end                                  | M22 x 1.5     |
| Female thread of rod end                                | M16 x 2.0     |
| Minimum piston speed                                    | 50 mm/s       |
| Weight                                                  | 1.103 Kg      |

# Dimensions

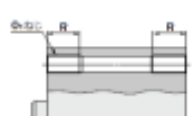
## φ63～φ100 オートスイッチ付

(オートスイッチなしの場合はA、Bの寸法のみ  
変わりますので、寸法表をご参照ください。)

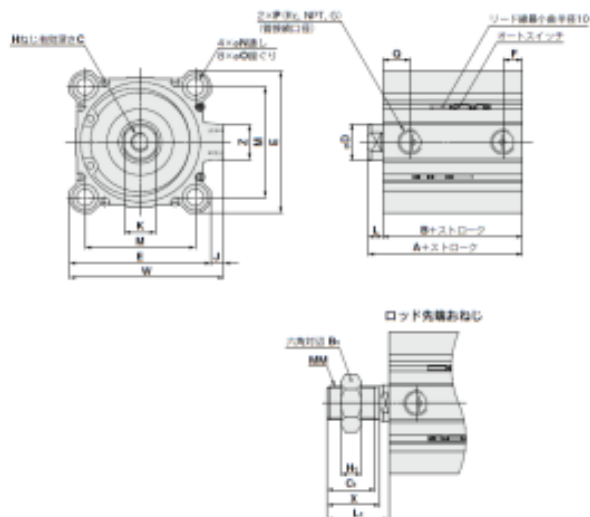
### 通し穴タイプ/CQ2BS・CDQ2BS

ヘッド側インロー付の寸法はCQ2シリーズ/電動式ロッド  
と同等です。P.802をご参照ください。

### 両端タップタイプ:CQ2AS・CDQ2AS



| シリーズ内径<br>(mm) | φH       | R   |
|----------------|----------|-----|
| 63             | M10×1.5  | 1.5 |
| 80             | M12×1.75 | 2.2 |
| 100            | M12×1.75 | 2.2 |

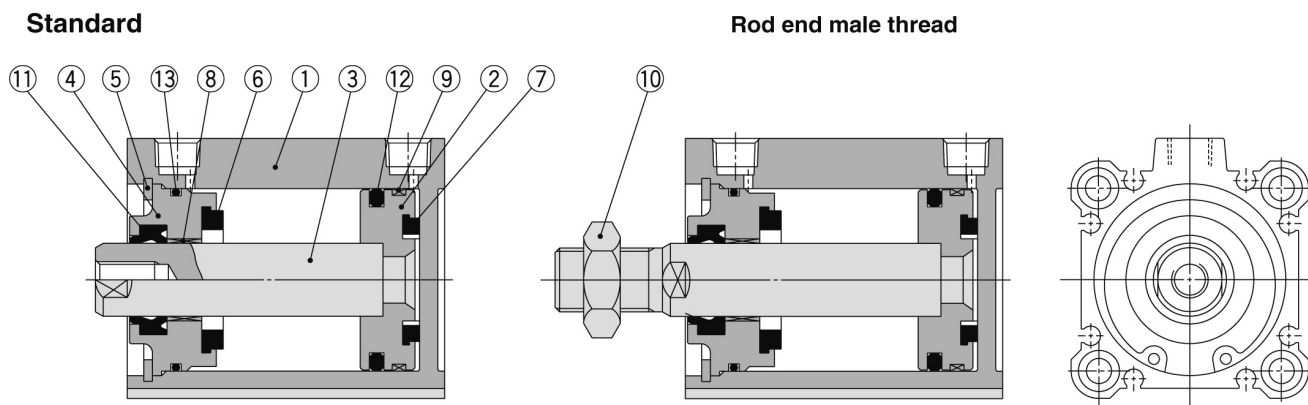


### ロッド先端ねじの場合

| シリーズ内径<br>(mm) | φH | C   | H  | L    | ねじ      | X    |
|----------------|----|-----|----|------|---------|------|
| 63             | 27 | 2.6 | 11 | 33.5 | M18×1.5 | 26.5 |
| 80             | 32 | 3.2 | 13 | 43.5 | M22×1.5 | 35.5 |
| 100            | 41 | 3.2 | 16 | 43.5 | M26×1.5 | 35.5 |

| シリーズ内径<br>(mm) | ストローク<br>(mm) | ポート径<br>(mm) | ポート径<br>(mm) | ポート径<br>(mm) | C    | D    | E    | F  | H  | J   | K    | L       | M   | N  | O  | P  | Q  | R    | S    | T   | U  | V     | W  | X | Y | Z |
|----------------|---------------|--------------|--------------|--------------|------|------|------|----|----|-----|------|---------|-----|----|----|----|----|------|------|-----|----|-------|----|---|---|---|
| 63             | 10-50         | 54           | 46           | 54           | 56   | 64   | 56   | 35 | 20 | 77  | 10.5 | M10×1.5 | 7   | 17 | 8  | 60 | 9  | 14   | 13.5 | 1/4 | 15 | 84    | 19 |   |   |   |
| 80             | 10-50         | 63.5         | 53.5         | 73.5         | 63.5 | 73.5 | 63.5 | 21 | 25 | 96  | 12.5 | M16×2.0 | 6   | 22 | 10 | 77 | 11 | 17.5 | 13.5 | 3/8 | 16 | 104   | 25 |   |   |   |
| 100            | 10-50         | 75           | 65           | 85           | 75   | 85   | 75   | 27 | 30 | 117 | 13   | M20×2.5 | 6.5 | 27 | 12 | 94 | 11 | 17.5 | 13.5 | 3/8 | 23 | 123.5 | 25 |   |   |   |

## 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   | Retaining ring | Carbon tool steel | Phosphate coated   |
| 6   | Bumper A       | Urethane          |                    |
| 7   | Bumper B       | Urethane          |                    |
| 8   | Bushing        | Bearing alloy     |                    |
| 9   | Wear ring      | Resin             |                    |
| 10  | Rod end nut    | Carbon steel      | Nickel plated      |
| 11  | Rod seal       | NBR               |                    |
| 12  | Piston seal    | NBR               |                    |
| 13  | Tube gasket    | NBR               |                    |

### Replacement Parts/Seal Kit

| Bore size (mm) | Kit no.    | Contents                                   |
|----------------|------------|--------------------------------------------|
| 32             | CQ2B32-PS  | Kits include items ⑪, ⑫, ⑬ from the table. |
| 40             | CQ2B40-PS  |                                            |
| 50             | CQ2B50-PS  |                                            |
| 63             | CQ2B63-PS  |                                            |
| 80             | CQ2B80-PS  |                                            |
| 100            | CQ2B100-PS |                                            |

\* Seal kit includes ⑪, ⑫, ⑬. 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](#)