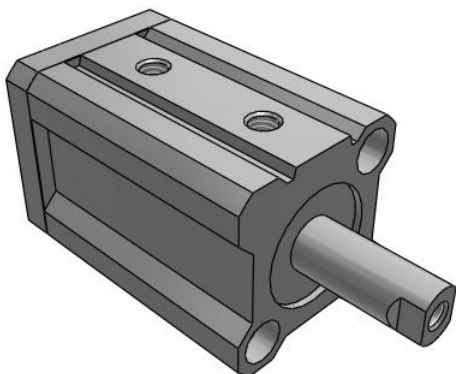


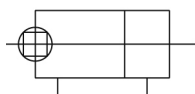


## C(D)Q2KW, Compact Cylinder, Double Acting, Double Rod, Non- rotating w/Auto Switch Mounting Groove CQ2KWB16-15D

Datasheet

### General series information

- Double acting, double 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 cylinder with double piston rod

### Standard specifications

|                                        |                                                 |
|----------------------------------------|-------------------------------------------------|
| Magnet                                 | None                                            |
| Mounting                               | B (Through Hole [Standard; 12 through 63 Bore]) |
| Bore Size                              | Ø16 mm                                          |
| Port Thread Type                       | Rc: 32-100 Bore; M Thread 12 to 25 Bore         |
| Stroke                                 | 15 mm                                           |
| 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                                           |

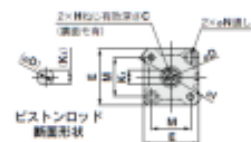
|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Minimum ambient temperature                             | -10 °C [without condensation] |
| Number of pneumatic connections                         | 2 pcs.                        |
| Pneumatic input connection                              | M5                            |
| Mode of operation of drive                              | Double acting                 |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 75 N                          |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 75 N                          |
| Maximum piston speed                                    | 500 mm/s                      |
| Type of Stroke end                                      | Double rod                    |
| Male thread of rod end                                  | M6 x 1.0                      |
| Female thread of rod end                                | M4 x 0.7                      |
| Minimum piston speed                                    | 50 mm/s                       |

# Dimensions

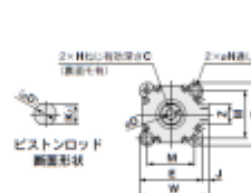
## φ12~φ32 オートスイッチなし

標準形(通し穴タイプ)/CQ2KWB

φ12~φ25



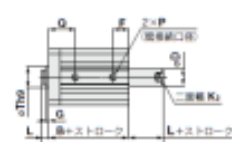
φ32



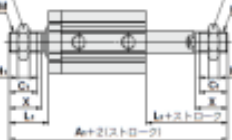
φ12, φ16の場合



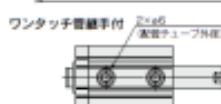
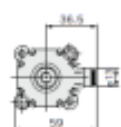
φ20, φ25の場合



ロッド先端ねじ



ワンタッチ管継手内蔵形/φ32



ロッド先端ねじの場合 (mm)

| ロッド先端ねじの寸法 (mm) | A    | B    | C  | H |
|-----------------|------|------|----|---|
| 12              | 5~30 | 20.7 | 8  | 4 |
| 16              | 5~30 | 25   | 10 | 5 |
| 20              | 5~50 | 31   | 13 | 5 |
| 25              | 5~50 | 37   | 15 | 5 |
| 32              | 5~50 | 43   | 22 | 5 |

チューブ内径 (mm)

| チューブ内径 (mm) | L    | HM      | X    |
|-------------|------|---------|------|
| 12          | 14   | M5×0.8  | 10.5 |
| 16          | 15.5 | M6×1.0  | 12   |
| 20          | 18.5 | M8×1.25 | 14   |
| 25          | 22.5 | M10×1.5 | 17.5 |
| 32          | 28.5 | M14×1.5 | 23.5 |

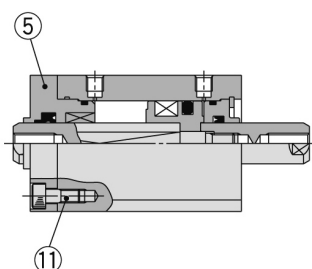
※ワンタッチ管継手内蔵形の場合はφ32のストロークは10ストロークの外形寸法と同一寸法になります。

標準形

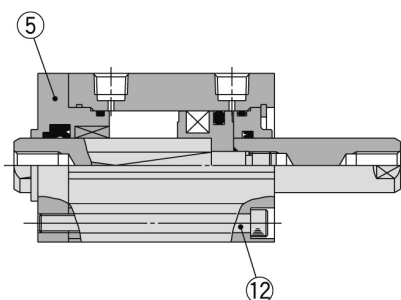
| チューブ内径 (mm) | ストローク範囲 (mm) | A    | B    | C  | D  | E  | F  | G   | H       | I  | J   | K   | L  | M   | N    | P   | Q      | Th | W  | Z |
|-------------|--------------|------|------|----|----|----|----|-----|---------|----|-----|-----|----|-----|------|-----|--------|----|----|---|
| 12          | 5~30         | 37.2 | 30.2 | 8  | 8  | 25 | 10 | 1.5 | M5×0.5  | 32 | —   | 5.2 | 5  | 3.5 | 15.5 | 3.5 | M5×0.8 | 15 | 15 | — |
| 16          | 5~30         | 38   | 31   | 8  | 8  | 29 | 10 | 1.5 | M6×0.7  | 38 | —   | 6   | 6  | 3.5 | 20   | 3.5 | M5×0.8 | 15 | 20 | — |
| 20          | 5~50         | 43   | 34   | 7  | 10 | 36 | 8  | 2   | M5×0.8  | 47 | —   | 8   | 8  | 4.5 | 25.5 | 5.5 | M5×0.8 | 16 | 12 | — |
| 25          | 5~50         | 47   | 37   | 12 | 12 | 40 | 9  | 2   | M6×1.0  | 52 | —   | 10  | 10 | 5   | 28   | 5.5 | M5×0.8 | 17 | 15 | — |
| 32          | 5            | 53.5 | 38.5 | 13 | 16 | 45 | 10 | 2   | M6×1.25 | —  | 4.5 | 14  | 14 | 7   | 34   | 5.5 | M5×0.8 | 19 | 21 | — |
|             | 10~50        | —    | —    | —  | —  | —  | —  | —   | —       | —  | —   | —   | —  | —   | —    | —   | —      | —  | —  | — |
|             | 75, 100      | 63.5 | 49.5 | —  | —  | —  | —  | —   | —       | —  | —   | —   | —  | —   | —    | —   | —      | —  | —  | — |

## Constructions

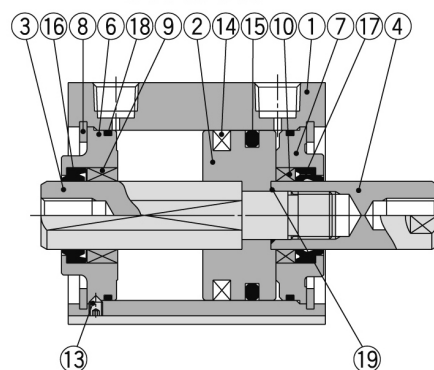
ø12 to ø25



ø32



ø40 to ø63



### Component Parts

| No. | Description                   | Material                       | Note                           |
|-----|-------------------------------|--------------------------------|--------------------------------|
| 1   | Cylinder tube                 | Aluminum alloy                 | Hard anodised                  |
| 2   | Piston                        | Aluminum alloy                 | Chromated                      |
| 3   | Piston rod A                  | Stainless steel                | ø12 to ø25                     |
|     |                               | Carbon steel                   | ø32 to ø63, Hard chrome plated |
| 4   | Piston rod B                  | Stainless steel                | ø12 to ø25                     |
|     |                               | Carbon steel                   | ø32 to ø63, Hard chrome plated |
| 5   | Rod cover                     | Brass                          | ø12, Electroless nickel plated |
|     |                               | Aluminum alloy                 | ø16 to ø32, Anodised           |
| 6   | Collar for non-rotating       | Aluminum alloy                 | ø40 to ø63, Anodised           |
| 7   | Collar                        | Aluminum alloy                 | ø12 to ø40, Anodised           |
|     |                               | Aluminum alloy casted          | ø50 to ø63, Chromated, Painted |
| 8   | Retaining ring                | Carbon tool steel              | Phosphate coated               |
| 9   | Bushing for non-rotating      | Oil-impregnated sintered alloy | ø16 to ø63                     |
| 10  | Bushing                       | Bearing alloy                  | ø50, ø63                       |
| 11  | Hexagon socket head cap screw | Alloy steel                    | ø12 to ø25, Nickel plated      |
| 12  | Hexagon socket head cap screw | Alloy steel                    | ø32, Nickel plated             |
| 13  | Hexagon socket head set screw | Alloy steel                    | ø40 to ø63, Nickel plated      |
| 14  | Magnet                        | —                              |                                |

| No. | Description               | Material | Note       |
|-----|---------------------------|----------|------------|
| 15  | Piston seal               | NBR      |            |
| 16  | Rod seal for non-rotating | NBR      |            |
| 17  | Rod seal                  | NBR      |            |
| 18  | Gasket                    | NBR      |            |
| 19  | Piston gasket             | NBR      | ø32 to ø63 |

### Replacement Parts/Seal Kit

| Bore size (mm) | Kit no.     | Contents                                          |
|----------------|-------------|---------------------------------------------------|
| 12             | CQ2KWB12-PS | Kits include items 15, 16, 17, 18 from the table. |
| 16             | CQ2KWB16-PS |                                                   |
| 20             | CQ2KWB20-PS |                                                   |
| 25             | CQ2KWB25-PS |                                                   |
| 32             | CQ2KWB32-PS |                                                   |
| 40             | CQ2KWB40-PS |                                                   |
| 50             | CQ2KWB50-PS |                                                   |
| 63             | CQ2KWB63-PS |                                                   |

\* Seal kit includes 15, 16, 17, 18. 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-D_EU.pdf</a>        |
| Operation manuals | <a href="#">OM_CQ2x_OM0002MEN.pdf</a> |