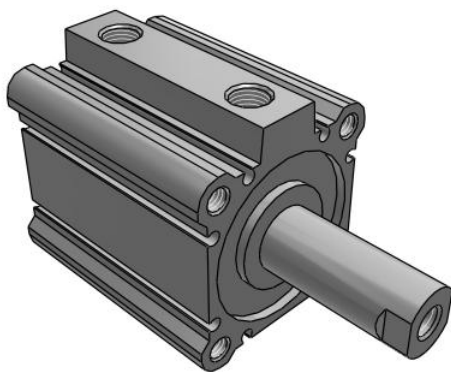


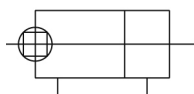


## C(D)Q2KW, Compact Cylinder, Double Acting, Double Rod, Non- rotating w/Auto Switch Mounting Groove CQ2KWA50TF-40DZ

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                               | A (Both Ends Tapped; 40 Through 63 Bore) |
| Bore Size                              | Ø50 mm                                   |
| Port Thread                            | TF [G]                                   |
| Stroke                                 | 40 mm                                    |
| Body Option                            | Standard (Rod End Female Thread)         |
| Auto Switch Groove                     | Z (Auto Switch Mounting Grooves)         |
| Auto Switch                            | No Switch                                |
| Lead Wire or Pre-wired 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             | 0,05 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                              | G 1/4                         |
| Mode of operation of drive                              | Double acting                 |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 825 N                         |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 825 N                         |
| Maximum piston speed                                    | 500 mm/s                      |
| Type of Stroke end                                      | Double rod                    |
| Female thread of rod end                                | M10 x 1.5                     |
| Minimum piston speed                                    | 50 mm/s                       |

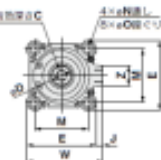
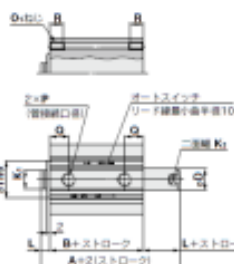
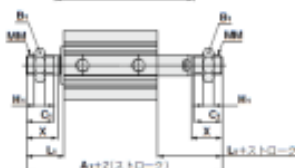
## Dimensions

**φ40～φ63 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。)

(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、申込書をご参照ください。)

両端タップタイプ: CQ2KWA-CDQ2KWA

標準形(通し穴タイプ)  
／CQ2KWB・CDQ2KWB

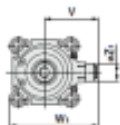
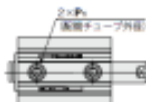


α63の場合の  
シリンドリクス型配列

| チューブ外径<br>(mm) | φ <sub>h</sub> | R  |
|----------------|----------------|----|
| 40             | M6×1.0         | 13 |
| 50             | M8×1.25        | 14 |
| 63             | M10×1.5        | 16 |

| ロボット先導の3D座標<br>(mm) | A <sub>1</sub><br>ロボット先導の3D座標<br>(mm) | B <sub>1</sub> | C <sub>1</sub> | H <sub>1</sub> | L <sub>1</sub> | MM   | X            |
|---------------------|---------------------------------------|----------------|----------------|----------------|----------------|------|--------------|
| 40                  | 5-50<br>75, 100                       | 97<br>107      | 32             | 20.5           | 8              | 28.5 | M54×1.5 23.5 |
| 50                  | 50-50<br>75, 100                      | 107.5<br>117.5 | 27             | 26             | 11             | 33.5 | M58×1.5 28.5 |
| 60                  | 50-50<br>75, 100                      | 109<br>119     | 27             | 26             | 11             | 33.5 | M58×1.5 28.5 |

ワンタッチ管継手内蔵形/ø40~ø63



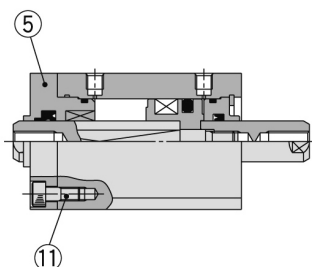
| チューブ内径<br>(mm) | Z <sub>1</sub> | P <sub>1</sub> | Y    | W <sub>1</sub> |
|----------------|----------------|----------------|------|----------------|
| 40             | 13             | 6              | 40.5 | 65.5           |
| 50             | 16             | 8              | 50   | 82             |
| 63             | 16             | 8              | 63.5 | 96             |

**標準形** オートスイッチの適正取付位置・取付面を寸法につきましてはP.964～969まで参照ください。

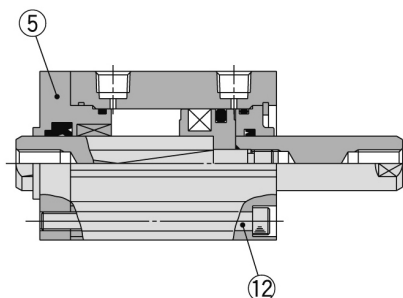
| 標準車 | オートバイタイプの車と2輪の車 軽自動車は含まれておらず、これはP.564~900を参照してください。 |                    |      |      |    |    |    |     |      |   |    |    |   |    |     |    |    |      |    |     |    |    |   |   | km/h |   |   |
|-----|-----------------------------------------------------|--------------------|------|------|----|----|----|-----|------|---|----|----|---|----|-----|----|----|------|----|-----|----|----|---|---|------|---|---|
| タイプ | 2ストロークエンジン<br>(cc)                                  | 4ストロークエンジン<br>(cc) | A    | B    | C  | D  | E  | F   | G    | H | J  | K  | L | M  | N   | O  | P  | Q    | R  | S   | T  | U  | V | W | X    | Y | Z |
| 49  | 50-59                                               | 54-60              | 64   | 50   | 13 | 16 | 52 | M8  | 1/25 | 5 | 14 | 14 | 7 | 40 | 5.5 | 9  | 17 | 12.5 | 28 | 100 | 57 | 15 |   |   |      |   |   |
|     | 75, 100, 125                                        | 64-70              |      |      |    |    |    |     |      |   |    |    |   |    |     |    |    |      |    |     |    |    |   |   |      |   |   |
|     | 10-50                                               | 56-75              | 65.5 | 50.5 | 15 | 20 | 64 | M10 | 1/5  | 7 | 18 | 17 | 8 | 50 | 6.6 | 11 | 18 | 14   | 35 | 100 | 71 | 19 |   |   |      |   |   |
| 50  | 75, 100                                             | 66-80              |      |      |    |    |    |     |      |   |    |    |   |    |     |    |    |      |    |     |    |    |   |   |      |   |   |
|     | 15-50                                               | 58-82              | 66   | 52   | 15 | 20 | 77 | M10 | 1/5  | 7 | 18 | 17 | 8 | 60 | 9   | 14 | 18 | 15   | 35 | 100 | 84 |    |   |   |      |   |   |
|     | 75, 100                                             | 68-85              |      |      |    |    |    |     |      |   |    |    |   |    |     |    |    |      |    |     |    |    |   |   |      |   |   |

## Constructions

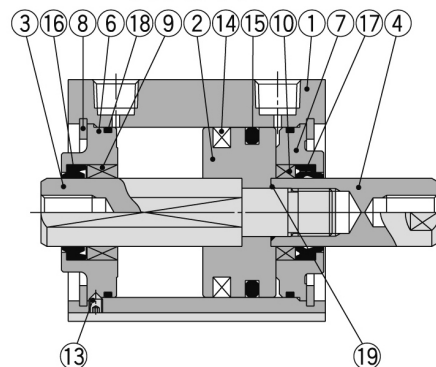
ø12 to ø25



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> |