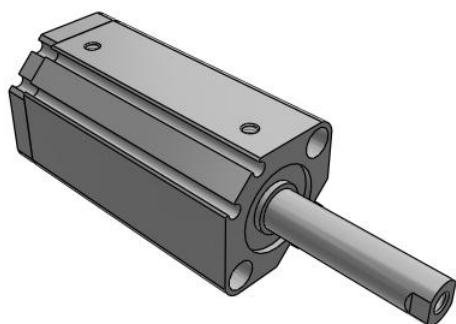


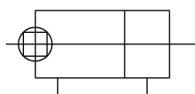


## C(D)Q2KW, Compact Cylinder, Double Acting, Double Rod, Non- rotating w/Auto Switch Mounting Groove CDQ2KWB25-45DZ

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

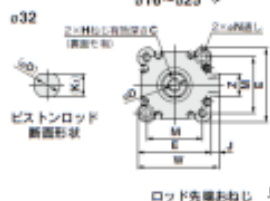
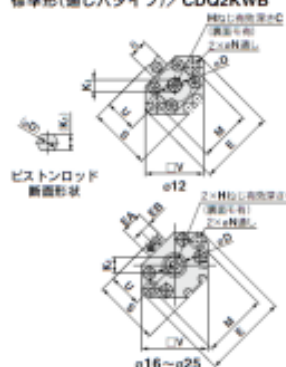
|                                        |                                                 |
|----------------------------------------|-------------------------------------------------|
| Magnet                                 | D (Built-in)                                    |
| Mounting                               | B (Through Hole [Standard; 12 through 63 Bore]) |
| Bore Size                              | Ø25 mm                                          |
| Port Thread                            | Rc: 32-100 Bore; M Thread 12 to 25 Bore         |
| Stroke                                 | 45 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 | 60 °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            | 60 °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) | 189 N                         |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 189 N                         |
| Maximum piston speed                                    | 500 mm/s                      |
| Type of Stroke end                                      | Double rod                    |
| Male thread of rod end                                  | M10 x 1.25                    |
| Female thread of rod end                                | M6 x 1.0                      |
| Minimum piston speed                                    | 50 mm/s                       |

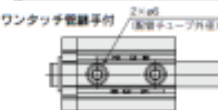
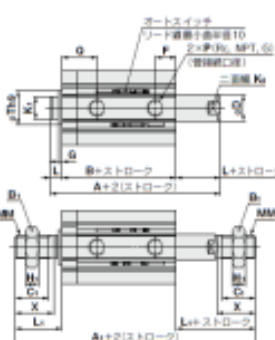
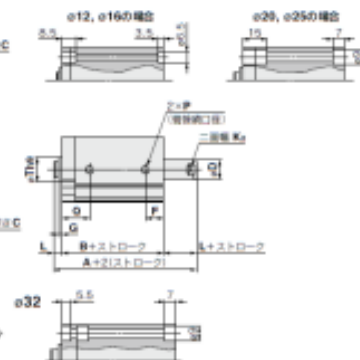
# Dimensions

## $\phi 12 \sim \phi 32$ オートスイッチ付

標準形(通し穴タイプ)/CDQ2KWB



ワンタッチ管継手内蔵形/ $\phi 32$



標準形 オートスイッチの選定取り付け位置・取付高さ付け法につきましてはP254～260をご参照ください。

| チューブ内径<br>(mm) | ストローク<br>(mm) | A    | B    | C  | D  | E   | EA   | EB   | F   | G   | H   | J   | K   | L   | M   | N   | P   | Q   | S   | ThS | U   | V   | W   | Z   |
|----------------|---------------|------|------|----|----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 12             | 5~30          | 44.4 | 17.4 | 6  | 6  | 3.3 | —    | 10.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 16             | 5~30          | 48   | 41   | 8  | 8  | 3.7 | 13.5 | 6.6  | 10  | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 20             | 5~50          | 56   | 46   | 7  | 10 | 4.7 | 13.5 | 6.6  | 8   | 2   | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 25             | 5~60          | 57   | 47   | 12 | 12 | 5.2 | 13.5 | 6.6  | 9   | 2   | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 32             | 5~70, 75, 100 | 63.5 | 49.5 | 13 | 16 | 4.6 | —    | —    | 10  | 2   | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |

ロッド先端ねじの場合

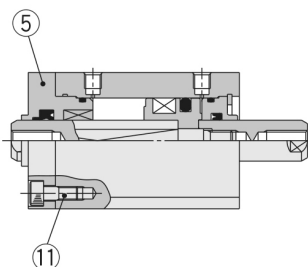
| チューブ内径<br>(mm) | A <sub>1</sub> | B <sub>1</sub> | C <sub>1</sub> | H <sub>1</sub> |
|----------------|----------------|----------------|----------------|----------------|
| 12             | 65.4           | 8              | 9              | 4              |
| 16             | 72             | 10             | 10             | 5              |
| 20             | 81             | 13             | 12             | 5              |
| 25             | 92             | 17             | 15             | 6              |
| 32             | 106.5          | 22             | 20.5           | 8              |

チューブ内径

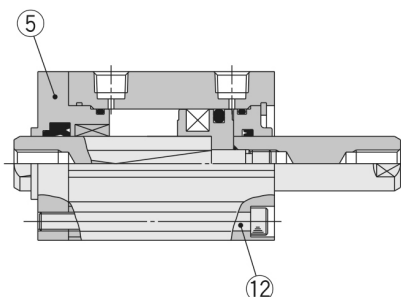
| チューブ内径<br>(mm) | L <sub>1</sub> | MH      | X    |
|----------------|----------------|---------|------|
| 12             | 1.4            | M3×0.5  | 10.5 |
| 16             | 15.5           | M3×1.0  | 12   |
| 20             | 16.5           | M3×1.25 | 14   |
| 25             | 22.5           | M3×1.25 | 17.5 |
| 32             | 28.5           | M3×1.5  | 23.5 |

## Constructions

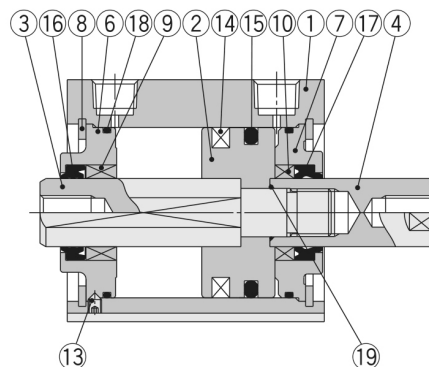
ø12 to ø25



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 |

## Additional information

Catalogue

[CQ2-Z-D\\_EU.pdf](#)

Operation manuals

[OM\\_CQ2x\\_OM0002MEN.pdf](#)