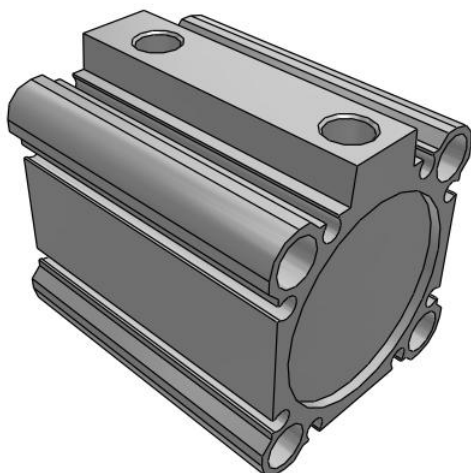




## C(D)Q2\*S, Compact Cylinder, Double Acting, Single Rod, Anti- lateral Load w/Auto Switch Mounting Groove CDQ2BS40-15DCZ

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                                 | D (Built-in)                              |
| Mounting                               | B (Through Hole [Standard])               |
| Bore Size                              | Ø40 mm                                    |
| Port Thread                            | Rc                                        |
| Stroke                                 | 15                                        |
| Body Option                            | C (Rubber Bumper)                         |
| Auto Switch                            | No Switch                                 |
| Lead Wire or Pre-wired Connector       | 0.5 m (Or None in the Case of No Switch)  |
| Number                                 | 2 pcs. (Or None in the Case of No Switch) |
| Rod End Options                        | None                                      |
| Made of Stainless Steel                | None                                      |
| Fluororubber Seal                      | None                                      |
| Pressure medium                        | Compressed air                            |
| Maximum temperature of pressure medium | 60 °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                             | 60 °C         |
| Minimum ambient temperature                             | -10 °C        |
| Number of pneumatic connections                         | 2 pcs.        |
| Pneumatic input connection                              | Rc 1/8        |
| Mode of operation of drive                              | Double acting |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 528 N         |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 628 N         |
| Maximum piston speed                                    | 500 mm/s      |
| Geometric form of the piston rod                        | Single rod    |
| Male thread of rod end                                  | M14 x 1.5     |
| Female thread of rod end                                | M8 x 1.25     |
| Minimum piston speed                                    | 50 mm/s       |
| Weight                                                  | 0.326 Kg      |

# Dimensions

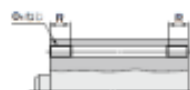
## φ32~φ50 オートスイッチ付

(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、寸法表もご確認ください。)

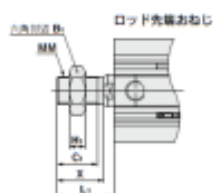
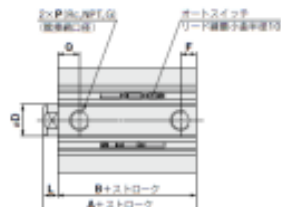
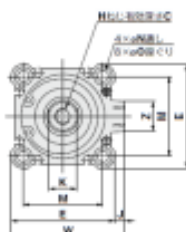
通し穴タイプ/ CQ2BS-CDQ2BS

両端タップタイプ/ CQ2AS-CDQ2AS

CDQ2AS



| 両端タップの場合 (mm) | C <sub>1</sub> | W |
|---------------|----------------|---|
| 32            | M6×1.3 10      |   |
| 40            | M6×1.3 10      |   |
| 50            | M8×1.25 14     |   |



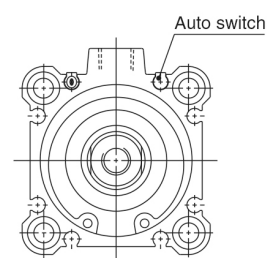
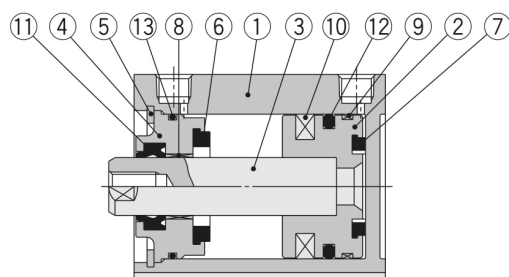
ヘッド側インロー付の寸法はCQ2シリーズ/ 駆動内ロッドと同等です。  
P.800を 確認ください。

ロッド先端おねじの場合 (mm)

| チューブ外径 (mm) | B <sub>1</sub> | C <sub>1</sub> | B <sub>2</sub> | L <sub>1</sub> | MM       | X    |
|-------------|----------------|----------------|----------------|----------------|----------|------|
| 32          | 22             | 20.5           | 8              | 28.5           | M1.4×1.5 | 23.5 |
| 40          | 22             | 20.5           | 8              | 28.5           | M1.4×1.5 | 23.5 |
| 50          | 27             | 26             | 11             | 33.5           | M1.8×1.5 | 28.5 |

|                |               |        |      |        |      |    |    |    |      |         |     |    |   |    |     |       |     |      | [mm] |    |
|----------------|---------------|--------|------|--------|------|----|----|----|------|---------|-----|----|---|----|-----|-------|-----|------|------|----|
| チューブ外径<br>(mm) | ストローク<br>(mm) | オンスの寸法 |      | オンスの寸法 |      | C  | D  | E  | F    | H       | J   | K  | L | M  | N   | O     | P   | Q    | W    | Z  |
|                |               | A      | B    | A      | B    |    |    |    |      |         |     |    |   |    |     |       |     |      |      |    |
| 32             | 5~50          | 40     | 33   | 50     | 43   | 13 | 16 | 45 | 7.5  | M5×1.25 | 4.5 | 14 | 7 | 34 | 5.5 | 9.87  | 1/8 | 10   | 40.5 | 14 |
|                | 75~160        | 50     | 43   |        |      |    |    |    |      |         |     |    |   |    |     |       |     |      |      |    |
| 40             | 5~50          | 46.5   | 39.5 | 56.5   | 49.5 | 13 | 16 | 52 | 7.5  | M5×1.25 | 5   | 14 | 7 | 40 | 5.5 | 9.87  | 1/8 | 12.5 | 57   | 15 |
|                | 75~160        | 56.5   | 49.5 |        |      |    |    |    |      |         |     |    |   |    |     |       |     |      |      |    |
| 50             | 10~50         | 48.5   | 40.5 | 58.5   | 50.5 | 15 | 20 | 64 | 10.5 | M10×1.5 | 7   | 17 | 8 | 50 | 6.6 | 13.80 | 1/4 | 10.5 | 71   | 19 |
|                | 75~160        | 58.5   | 50.5 |        |      |    |    |    |      |         |     |    |   |    |     |       |     |      |      |    |

## 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  | Magnet         | —                 |                    |
| 11  | Rod seal       | NBR               |                    |
| 12  | Piston seal    | NBR               |                    |
| 13  | Tube gasket    | NBR               |                    |

## Additional information

|                   |                                       |
|-------------------|---------------------------------------|
| Catalogue         | <a href="#">CQ2-Z-D_EU.pdf</a>        |
| Operation manuals | <a href="#">OM_CQ2x_OM0002MEN.pdf</a> |