



## CP96S(D), ISO 15552 Cylinder, Double Acting, Single/Double Rod with Air cushion on both ends and Bumper cushion CP96SDB50-400CW

Datasheet

### General series information

- Double acting, standard type, single or double rod with Air cushion on both ends and Bumper cushion
- Bore sizes (mm): 32, 40, 50, 63, 80, 100
- Standard stroke up to 2000mm
- Auto switch capable

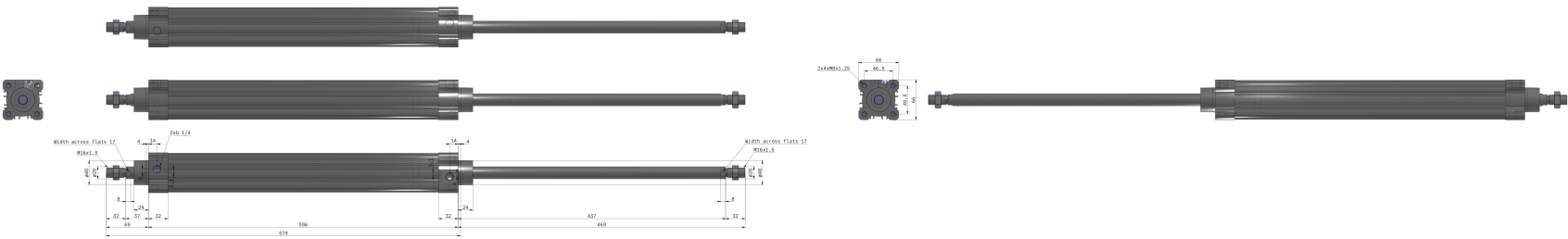


*Double-acting cylinder with cushioning  
adjustable at both ends, single piston rod*

### Standard specifications

|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| Magnet                                             | D (Built-in)                              |
| Mounting                                           | B (Basic)                                 |
| Bore Size                                          | Ø50 mm                                    |
| Stroke                                             | 400                                       |
| Rod Boot                                           | w/o Rod Boot                              |
| Rod                                                | W (Double Rod)                            |
| 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                                      |
| Temperature Resistance                             | None                                      |
| Heavy Duty Scraper                                 | None                                      |
| Tie Rod                                            | None                                      |
| Fluororubber Seal                                  | None                                      |
| Coil Scraper                                       | None                                      |
| Made of Stainless Steel (-XC68)                    | None                                      |
| Made of Stainless Steel (-XC65)                    | None                                      |
| Pressure medium                                    | Compressed air                            |
| Maximum temperature of pressure medium with magnet | 60 °C                                     |

|                                                         |                      |
|---------------------------------------------------------|----------------------|
| Minimum temperature of pressure medium with magnet      | -10 °C (no freezing) |
| Maximum operating pressure                              | 1.0 MPa              |
| Minimum operating pressure                              | 0.05 MPa             |
| Proof pressure                                          | 1.5 MPa              |
| Maximum ambient temperature                             | 70 °C                |
| Maximum ambient temperature with magnet                 | 60 °C                |
| Minimum ambient temperature with magnet                 | -10 °C (no freezing) |
| Number of pneumatic connections                         | 2 pcs.               |
| Pneumatic input connection                              | G 1/4                |
| Pneumatic exhaust connection                            | G 1/4                |
| Mode of operation of drive                              | Double acting        |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 982 N                |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 825 N                |
| Maximum piston speed                                    | 1,000 mm/s           |
| Piston rod end                                          | Male thread          |
| Male thread of rod end                                  | M16 x 1.5            |
| Minimum piston speed                                    | 50 mm/s              |
| Weight                                                  | 4.930 Kg             |



## Constructions



### Component Parts

| No. | Description          | Material           | Note         |
|-----|----------------------|--------------------|--------------|
| 1   | Rod cover            | Aluminium die-cast |              |
| 2   | Head cover           | Aluminium die-cast |              |
| 3   | Cylinder tube        | Aluminium alloy    |              |
| 4   | Piston rod           | Carbon steel       |              |
| 5   | Piston               | Aluminium alloy    | Ø 32 to Ø 63 |
|     |                      | Aluminium die-cast | Ø 80, Ø 100  |
| 6   | Cushion ring A       | Aluminium alloy    |              |
| 7   | Cushion ring B       | Aluminium alloy    |              |
| 8   | Cushion seal holder  | Aluminium alloy    |              |
| 9   | Tie-rod              | Carbon steel       |              |
| 10  | Tie-rod nut          | Steel              |              |
| 11  | Flat washer          | Steel              | Ø 80, Ø 100  |
| 12  | Rod end nut          | Steel              |              |
| 13  | Cushion valve        | Resin              |              |
| 14  | Bushing              | Bearing alloy      |              |
| 15  | Cushion seal         | Urethane           |              |
| 16  | Bumper               | Urethane           |              |
| 17  | Wear ring            | Resin              |              |
| 18  | Piston seal          | NBR                |              |
| 19  | Rod seal             | NBR                |              |
| 20  | Cylinder tube gasket | NBR                |              |
| 21  | Cushion valve seal   | NBR                |              |
| 22  | Magnet               |                    |              |

### Replacement Parts/Seal Kit (Single rod)

| Bore size [mm] | Kit no.  | Contents                            |
|----------------|----------|-------------------------------------|
| 32             | CS95-32  | Kits include items<br>15, 17 to 20. |
| 40             | CS95-40  |                                     |
| 50             | CS95-50  |                                     |
| 63             | CS95-63  |                                     |
| 80             | CS95-80  |                                     |
| 100            | CS96-100 |                                     |

### Seal Kit (Double rod)

| Bore size [mm] | Kit no.   | Contents                            |
|----------------|-----------|-------------------------------------|
| 32             | CS95W-32  | Kits include items<br>15, 18 to 20. |
| 40             | CS95W-40  |                                     |
| 50             | CS95W-50  |                                     |
| 63             | CS95W-63  |                                     |
| 80             | CS95W-80  |                                     |
| 100            | CS96W-100 |                                     |

## Additional information

Catalogue

[CP96-Bb\\_EU.pdf](#)

Operation manuals

[OM\\_CP96x-C\\_OM0002QEN.pdf](#)