

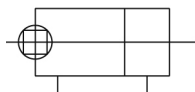
# CP96K(D), ISO 15552 Cylinder, Non-rotating Rod Type, Double Acting, Single/Double Rod with Air cushion on both ends and Bumper cushion

CP96KDB100-50CW

Datasheet

## General series information

- Double acting, Non-rotating, 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 500mm, maximum stroke 800mm
- Auto switch capable



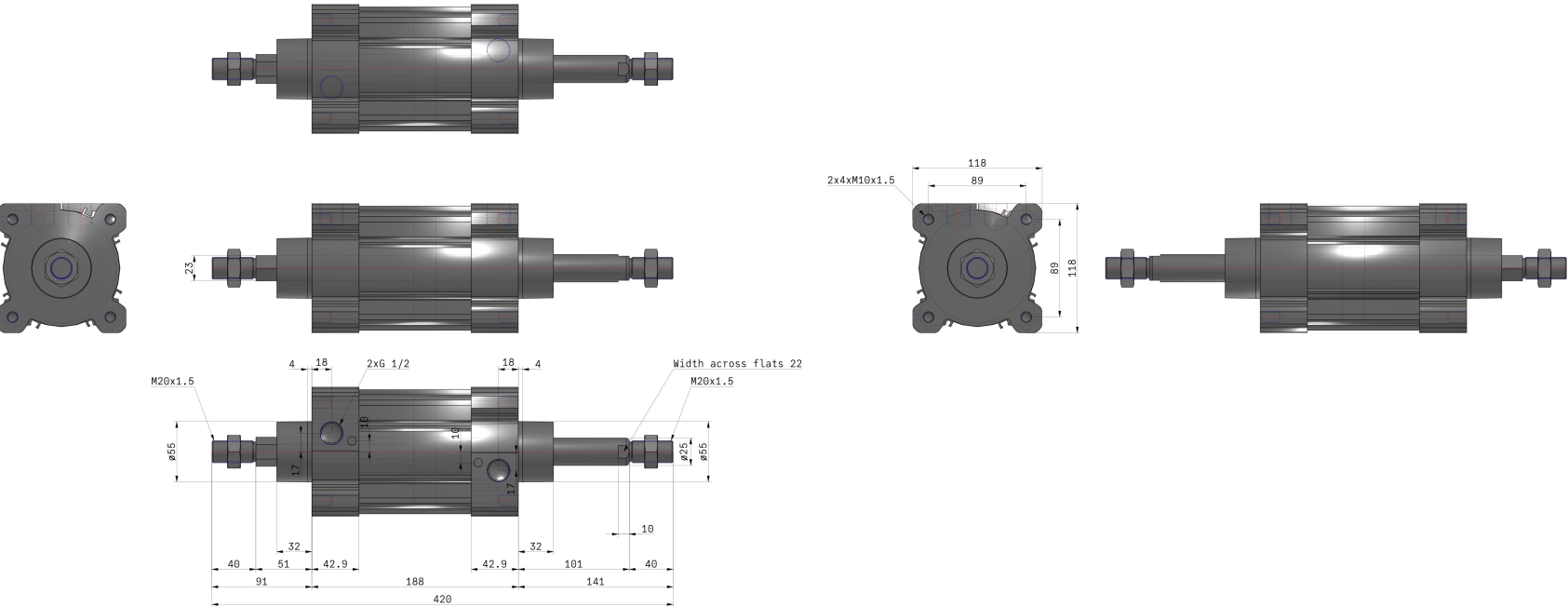
Double-acting cylinder with double non rotating  
piston rod

## Standard specifications

|                                                    |                                          |
|----------------------------------------------------|------------------------------------------|
| Magnet                                             | D (Built-in Magnet)                      |
| Mounting                                           | B (Basic, w/o Bracket)                   |
| Bore Size                                          | Ø100 mm                                  |
| Stroke                                             | 50                                       |
| 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 Case of No Switch)    |
| Pressure medium                                    | Compressed air                           |
| Maximum temperature of pressure medium             | 60 °C                                    |
| Maximum temperature of pressure medium with magnet | 60 °C                                    |
| Minimum temperature of pressure medium             | -10 °C (no freezing)                     |
| 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                        | 60 °C                                    |
| Maximum ambient temperature with magnet            | 60 °C                                    |
| Minimum ambient temperature                        | -10 °C (no freezing)                     |

|                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| Minimum ambient temperature with magnet | -20 °C (no freezing)                      |
| Number of pneumatic connections         | 2 pcs.                                    |
| Pneumatic pilot connections             | G 1/2                                     |
| Pneumatic exhaust connection            | G 1/2                                     |
| Mode of operation of drive              | Double acting                             |
| Maximum piston speed                    | 1,000 mm/s                                |
| Type of cushioning                      | Air cushion on both ends + Bumper cushion |
| Piston rod end                          | Male thread                               |
| Male thread of rod end                  | M20 x 1.5                                 |
| Minimum piston speed                    | 50 mm/s                                   |

Dimensions



## Constructions



### Component Parts

| No. | Description                   | Material           | Q'ty | Note                           |
|-----|-------------------------------|--------------------|------|--------------------------------|
| 1   | Rod cover                     | Aluminium die-cast | 1    | Trivalent chromated            |
| 2   | Head cover                    | Aluminium die-cast | 1    | Trivalent chromated            |
| 3   | Cylinder tube                 | Aluminium alloy    | 1    | Hard anodised                  |
| 4   | Piston rod                    | Stainless steel    | 1    |                                |
| 5   | Piston                        | Aluminium alloy    | 1    |                                |
| 6   | Cushion ring                  | Rolled steel       | 2    | Trivalent zinc chromated       |
| 7   | Piston nut                    | Rolled steel       | 1    | Trivalent zinc chromated       |
| 8   | Non-rotating guide            | Bearing alloy      | 1    |                                |
| 9   | Cushion valve                 | Resin              | 2    |                                |
| 10  | Tie-rod                       | Carbon steel       | 4    | Trivalent zinc chromated       |
| 11  | Tie-rod nut                   | Rolled steel       | 8    | Trivalent zinc chromated       |
| 12  | Cushion seal holder           | Aluminium alloy    | 2    | Anodised                       |
| 13  | Wear ring                     | Resin              | 1    |                                |
| 14  | Rod seal                      | NBR                | 1    |                                |
| 15  | Piston seal                   | NBR                | 1    |                                |
| 16  | Cushion seal                  | Urethane           | 2    |                                |
| 17  | Cushion valve seal            | NBR                | 2    |                                |
| 18  | Cylinder tube gasket          | NBR                | 2    |                                |
| 19  | Bumper                        | Urethane           | 2    |                                |
| 20  | Rod end nut                   | Rolled steel       | 1    | Trivalent zinc chromated       |
| 21  | Magnet                        | —                  | (1)  |                                |
| 22  | Flat washer                   | Steel              | 8    | For Ø 80, Ø 100                |
| 23  | Hexagon socket head set screw | Steel wire         | 2    | Trivalent black zinc chromated |

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

| Bore size [mm] | Kit no.  | Contents                            |
|----------------|----------|-------------------------------------|
| 32             | CK95-32  | Kits include items<br>13 to 16, 18. |
| 40             | CK95-40  |                                     |
| 50             | CK95-50  |                                     |
| 63             | CK95-63  |                                     |
| 80             | CK95-80  |                                     |
| 100            | CK96-100 |                                     |

### Seal Kit (Double rod)

| Bore size [mm] | Kit no.   | Contents                            |
|----------------|-----------|-------------------------------------|
| 32             | CK95W-32  | Kits include items<br>14 to 16, 18. |
| 40             | CK95W-40  |                                     |
| 50             | CK95W-50  |                                     |
| 63             | CK95W-63  |                                     |
| 80             | CK95W-80  |                                     |
| 100            | CK96W-100 |                                     |

## Additional information

Catalogue

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

Operation manuals

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