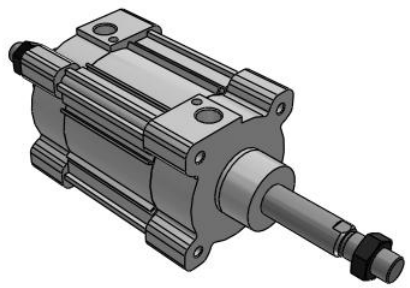


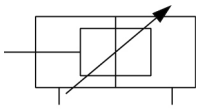
# CP96S(D), ISO 15552 Cylinder, Double Acting, Single/Double Rod with Air cushion on both ends and Bumper cushion

CP96SDB100-50CW

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 | Ø100 mm |
| Stroke | 50 |
| Rod Boot | w/o Rod Boot |
| Rod | W (Double Rod) |
| Auto Switch | No Switch |
| Lead Wire or Prewired Connector | 0.5m [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 ºC |

*Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.*



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| | |
|---|---|
| Minimum temperature of pressure medium with magnet | -10 ºC (no freezing) |
| Maximum operating pressure | 1.0 MPa |
| Minimum operating pressure | 0.05 MPa |
| Proof pressure | 1.5 MPa |
| Maximum ambient temperature | 70 ºC |
| Maximum ambient temperature with magnet | 60 ºC |
| Minimum ambient temperature with magnet | -10 ºC (no freezing) |
| Number of pneumatic connections | 2 pcs. |
| Pneumatic input connection | G 1/2 |
| Pneumatic exhaust connection | G 1/2 |
| Mode of operation of drive | Double acting |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 3,927 N |
| Theoretical cylinder force, return stroke (at 0.5 MPa) | 3,682 N |
| Maximum piston speed | 1,000 mm/s |
| Piston rod end | Male thread |
| Male thread of rod end | M20 x 1.5 |
| Minimum piston speed | 50 mm/s |
| Weight | 4.912 Kg |

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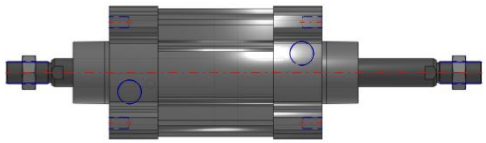
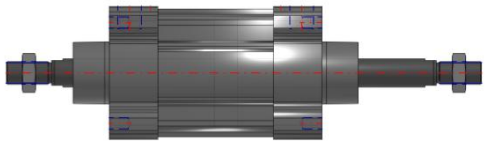
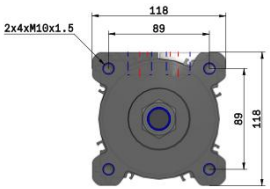
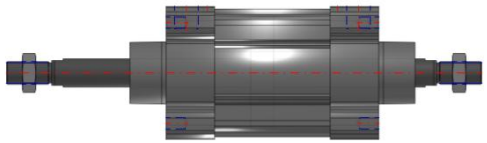
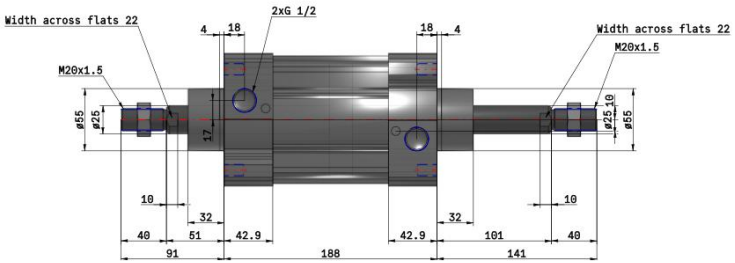
# Dimensions







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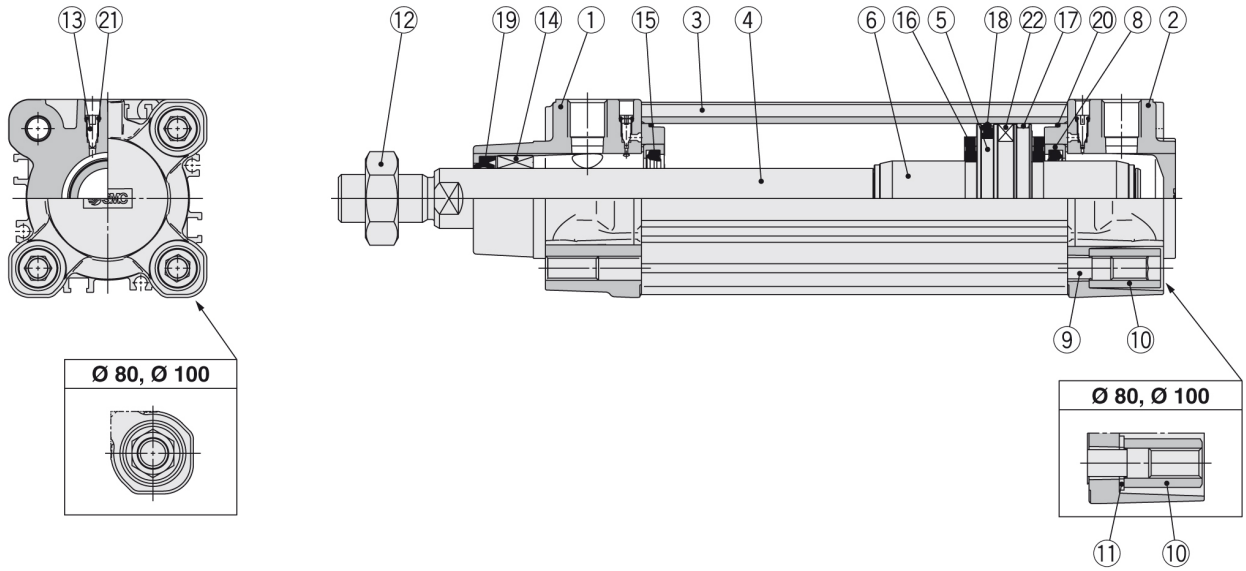
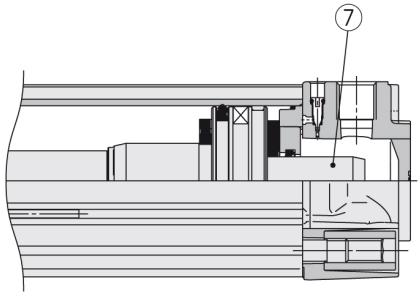
# Constructions




## 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 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 ⑮, ⑱ to ⑳. |
| **40** | CS95W-40 | |
| **50** | CS95W-50 | |
| **63** | CS95W-63 | |
| **80** | CS95W-80 | |
| **100** | CS96W-100 | |

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## Additional information

| | |
|---|---|
| Catalogue | CP96-Bb_EU.pdf |
| Operation manuals | OM_CP96x-C_OM0002QEN.pdf |

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