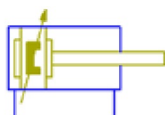


## C96S(D), ISO 15552 Cylinder, Double Acting, Single/Double Rod with Air cushion on both ends and Bumper cushion C96SDB50-320C

### Datasheet

- C96-C, ISO 15552 Cylinder, Double Acting, Single/Double Rod with Air Cushion and bumper.
- New types added: Standard, non-rotating, smooth cylinder and cylinder with lock unit.
- Rod boot option added for the standard type.
- Integrated function of the air cushion and the bumper.
- Bore sizes (mm): 32 ~ 125.
- Strokes up to 2000 mm.
- Weight reduced by up to 17% thanks to the new the design of the cover and the piston.
- Many made to order available.



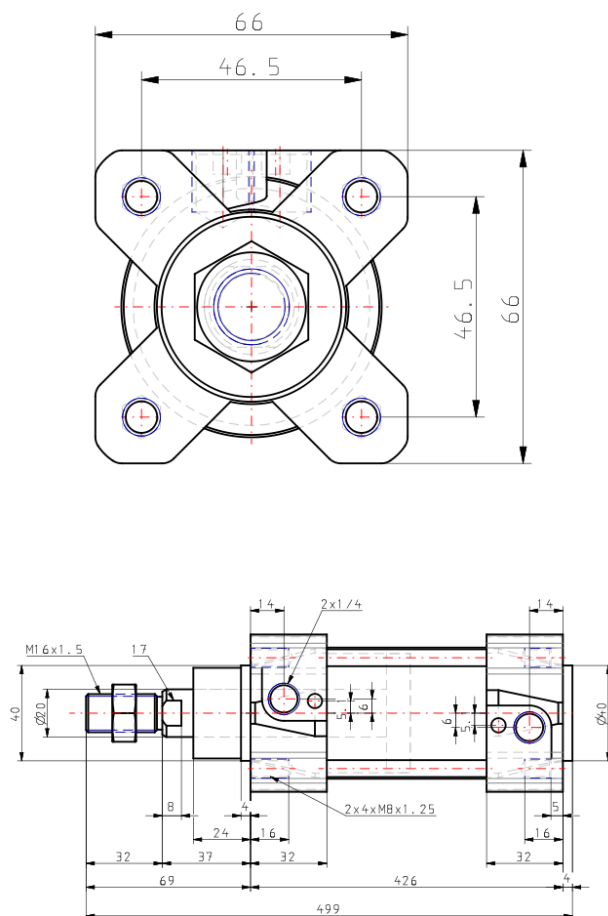
*Double-acting cylinder with cushioning  
adjustable at both ends, single piston rod*

### Standard specifications

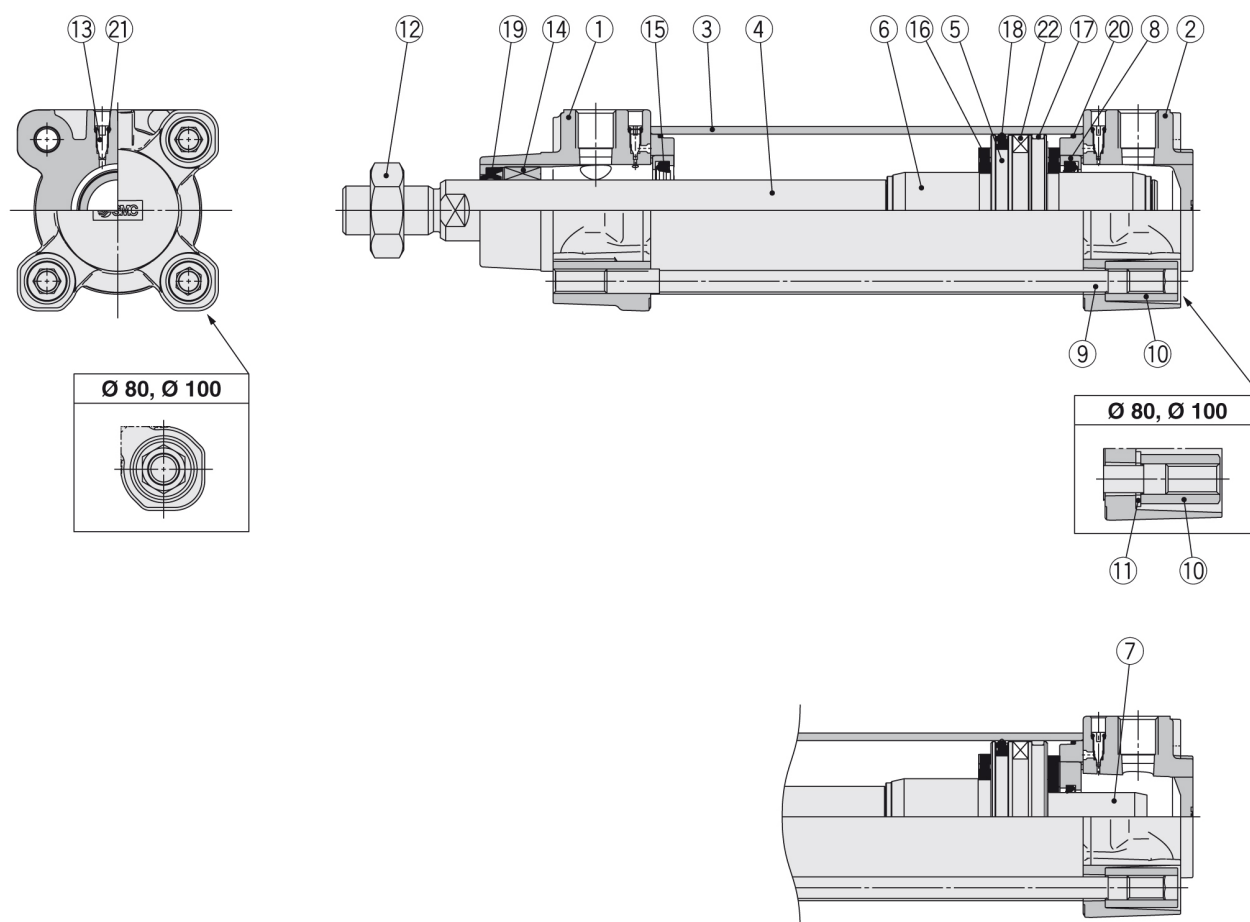
|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Magnet                          | D (Built-in Magnet)                       |
| Mounting                        | B (Basic)                                 |
| Bore Size                       | Ø50 mm                                    |
| Stroke                          | 320                                       |
| Rod Boot                        | w/o Rod Boot                              |
| Rod                             | Single 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         | None                                      |

|                                                         |                                           |
|---------------------------------------------------------|-------------------------------------------|
| -                                                       | 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 with magnet                 | 60 °C                                     |
| Minimum ambient temperature with magnet                 | -10 °C (no freezing)                      |
| Pneumatic input connection                              | G 1/4                                     |
| Pneumatic output connection                             | G 1/4                                     |
| 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                                |
| Type of cushioning                                      | Air cushion on both ends + Bumper cushion |
| Piston rod end                                          | Male thread                               |
| Male thread of rod end                                  | M16 x 1.5                                 |
| Minimum piston speed                                    | 50 mm/s                                   |
| Weight                                                  | 2.657 Kg                                  |

## Dimensions



## 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, ⑰ to ⑳. |
| 40             | CS95W-40  |                                  |
| 50             | CS95W-50  |                                  |
| 63             | CS95W-63  |                                  |
| 80             | CS95W-80  |                                  |
| 100            | CS96W-100 |                                  |

## Additional information

Catalogue

[C96-Bb\\_EU.pdf](#)