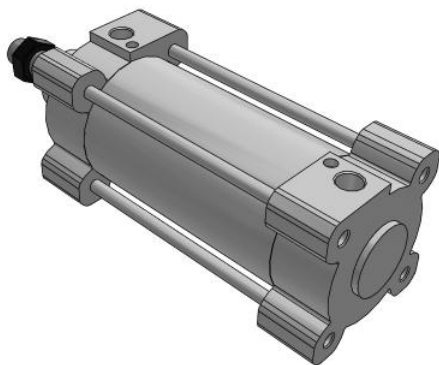


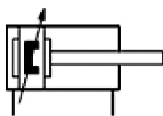


## C96S(D), ISO 15552 Cylinder, Double Acting, Single/Double Rod with Air cushion on both ends and Bumper cushion C96SDB80-100C

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 1900mm
- Auto switch capable



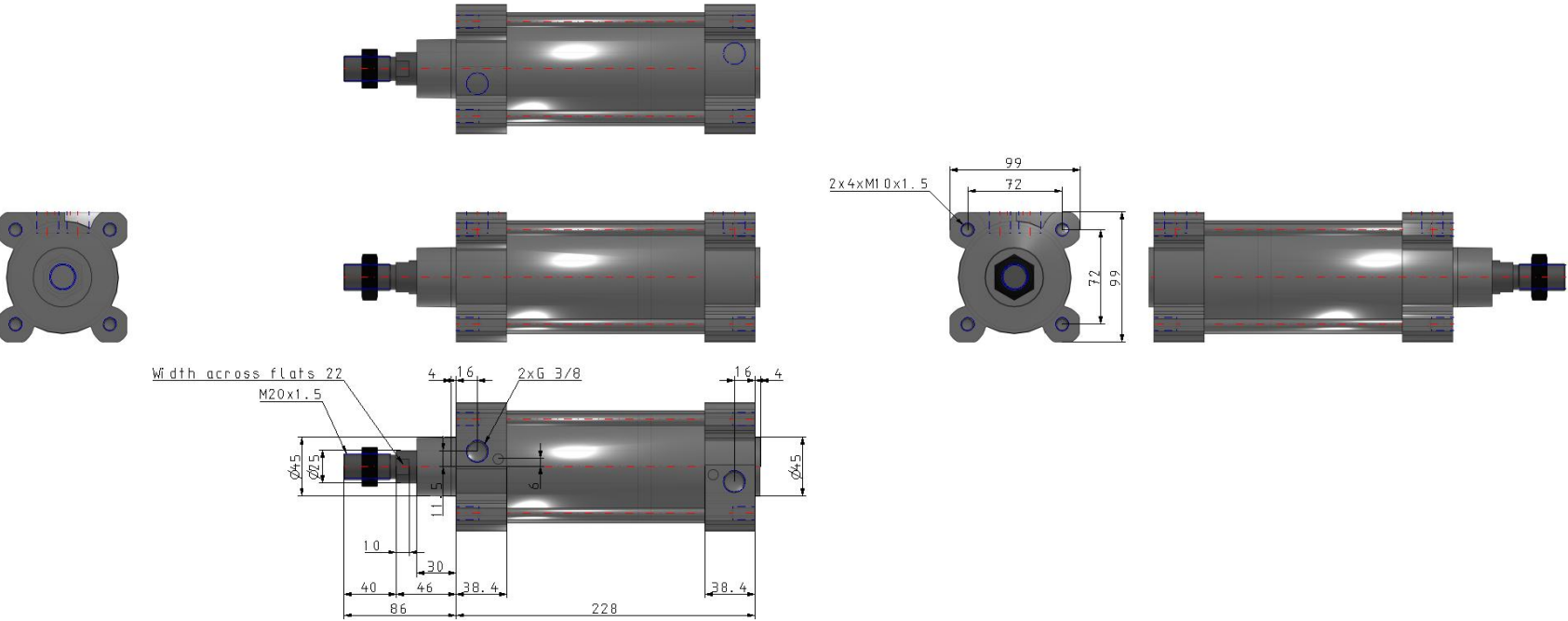
*Double-acting cylinder with cushioning  
adjustable at both ends, single piston rod*

### Standard specifications

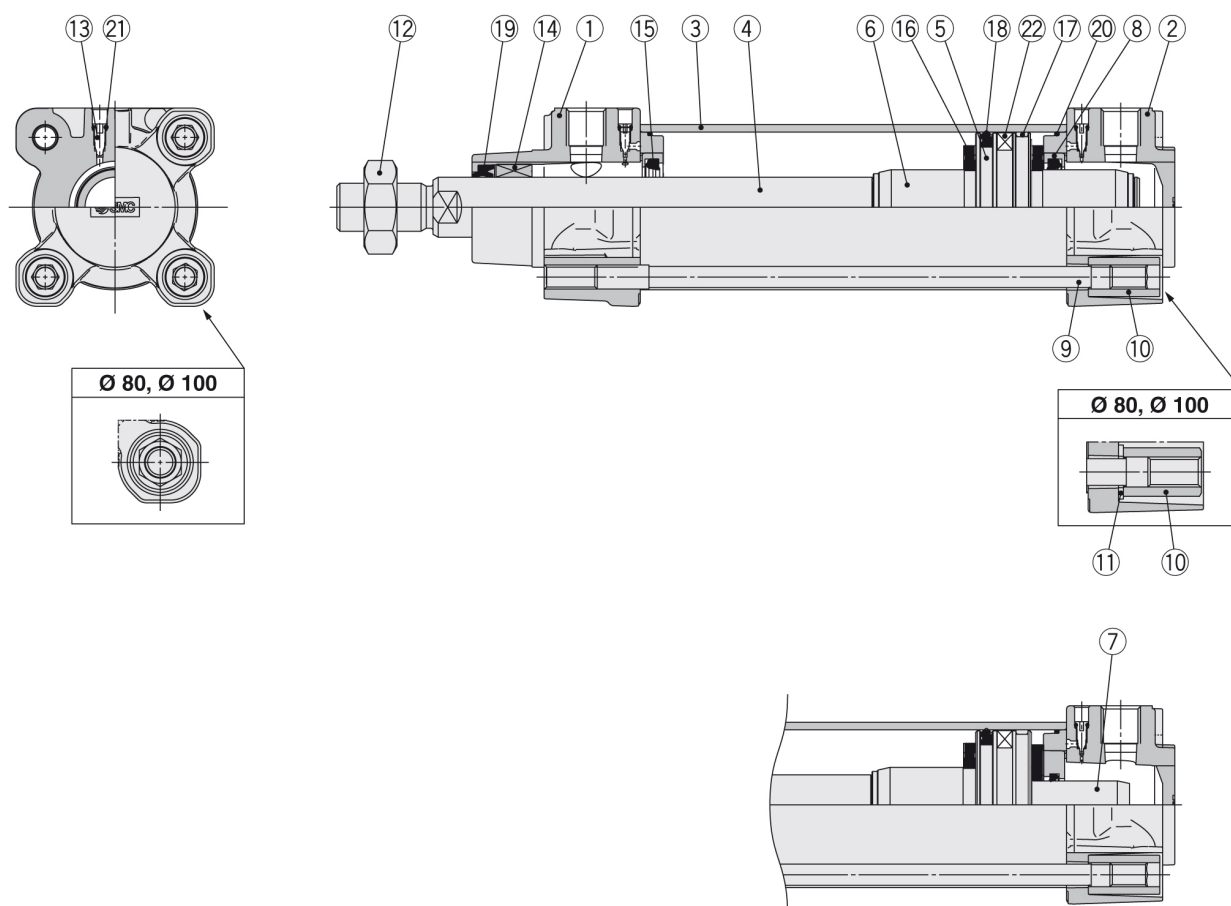
|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| Magnet                                             | D (Built-in)                              |
| Mounting                                           | B (Basic)                                 |
| Bore Size                                          | Ø80 mm                                    |
| Stroke                                             | 100                                       |
| 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 (-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 with magnet                 | 60 °C                                     |
| Minimum ambient temperature with magnet                 | -10 °C (no freezing)                      |
| Number of pneumatic connections                         | 2 pcs.                                    |
| Pneumatic input connection                              | G 3/8                                     |
| Pneumatic output connection                             | G 3/8                                     |
| Mode of operation of drive                              | Double acting                             |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 2,514 N                                   |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 2,268 N                                   |
| Maximum piston speed                                    | 1,000 mm/s                                |
| Type of cushioning                                      | Air cushion on both ends + Bumper cushion |
| Piston rod end                                          | Male thread                               |
| Geometric form of the piston rod                        | Single rod                                |
| Male thread of rod end                                  | M20 x 1.5                                 |
| Minimum piston speed                                    | 50 mm/s                                   |
| Weight                                                  | 3.120 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<br>Aluminium die-cast | Ø 32 to Ø 63<br>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

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