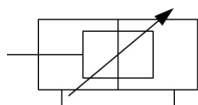


## C(D)G5-S, Stainless Steel Cylinder, Double Acting, Single Rod CDG5BA25SV-300

### Datasheet

SMC's CG5-S series is a stainless steel cylinder, perfect for use in wash down applications such as food processing machinery requiring intense cleaning. The use of non-toxic additives allows confident use in equipment for foods, beverages and medical products, etc. The CG5-S can be disassembled, allowing replacement of seals, which promotes an extended service life. SMC provides plugs for unused mounting threads to prevent residue build-up in the threads. The use of stainless steel (SUS304) on external metal parts provides improved corrosion resistance in environments with exposure to water.



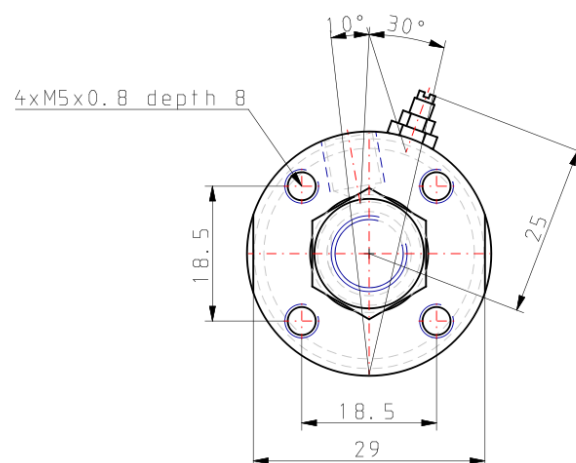
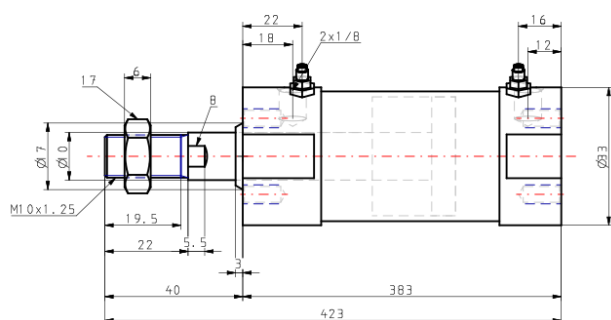
*Double-acting cylinder with cushioning  
adjustable at both ends, single piston rod*

## Standard specifications

|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| Magnet                                             | D (Built-in)                              |
| Mounting                                           | B (Basic Style)                           |
| Style                                              | A (Non-lube Air Cushion)                  |
| Bore Size                                          | 25mm                                      |
| Thread                                             | Rc (M5 for Air Cushion 20 & 25 Bore)      |
| Seal Material                                      | V (FKM)                                   |
| Stroke                                             | 300                                       |
| Auto Switch                                        | None                                      |
| 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                                      |
| Pressure medium                                    | Air                                       |
| Maximum temperature of pressure medium with magnet | 60 °C                                     |
| Minimum temperature of pressure medium with magnet | -10 °C                                    |
| 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           |
| Conform to the European RoHS Directive  | Conform          |
| Number of pneumatic connections         | 2 pcs.           |
| Pneumatic input connection              | M5 x 0.8         |
| Mode of operation of drive              | Double acting    |
| Maximum piston speed                    | 1000 mm/s        |
| Piston rod end                          | External thread  |
| Geometric form of the piston rod        | Round piston rod |
| Male thread of rod end                  | M10 x 1.25       |
| Minimum piston speed                    | 50 mm/s          |
| Weight                                  | 0.924 Kg         |

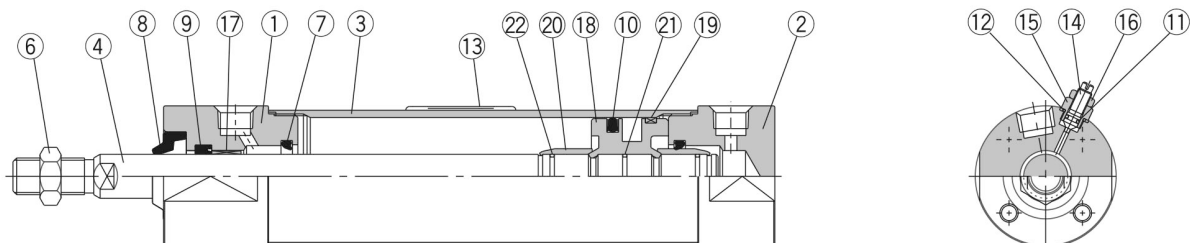
## Dimensions



## Constructions

### Construction

#### With air cushion



#### Component Parts

| No. | Description    | Material                                 |
|-----|----------------|------------------------------------------|
| 1   | Rod cover      | Stainless steel 304                      |
| 2   | Head cover     | Stainless steel 304                      |
| 3   | Cylinder tube  | Stainless steel 304                      |
| 4   | Piston rod     | Stainless steel 304   Hard chrome plated |
| 6   | Rod end nut    | Stainless steel 304                      |
| 7   | Cushion seal   | Urethane                                 |
| 14  | Cushion valve  | Stainless steel 304                      |
| 15  | Valve retainer | Stainless steel 304                      |
| 16  | Lock nut       | Stainless steel 304                      |
| 17  | Bushing        | Bearing alloy                            |
| 18  | Piston         | Aluminium alloy                          |
| 19  | Wearing        | Resin                                    |
| 20  | Cushion ring   | Aluminium alloy                          |

Note 1) Component part material and surface treatment other than listed above are the same as the standard type of Series CG1.  
 Note 2) For cylinders with an auto switch, the piston is fixed with a magnet.

| No. | Description             | Material |          |
|-----|-------------------------|----------|----------|
|     |                         | CG5□□□SR | CG5□□□SV |
| 8   | Water resistant scraper | NBR      | FKM      |
| 9   | Rod seal                |          |          |
| 10  | Piston seal             |          |          |
| 11  | Valve seal              |          |          |
| 12  | Valve retainer gasket   |          |          |
| 21  | Piston gasket           |          |          |
| 22  | Cushion ring gasket     |          |          |
| 13  | Label protector         | PET      |          |

## Additional information

Catalogue

[CJ5-CG5-B\\_EU.pdf](#)