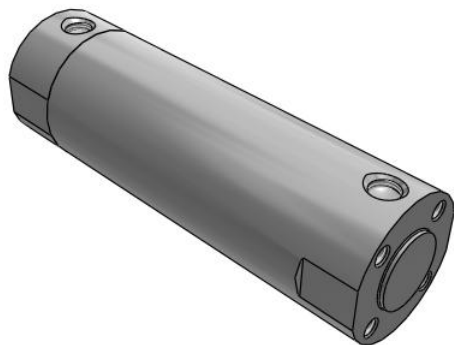




## C(D)G3 Air Cylinder, Double Acting, Single Rod, Short Type CDG3BN50-100F

Datasheet

### General series information

- This product is being discontinued and will be replaced by CG3-Z1 series. [Update details here.](#)
- Standard: double acting single rod
- Bore sizes (mm): 20, 25, 32, 40, 50, 63, 80, & 100
- Strokes from 25mm through 300mm
- Mounts: basic, foot, front or rear flange, clevis
- Variety of switches and a variety of lead wire lengths



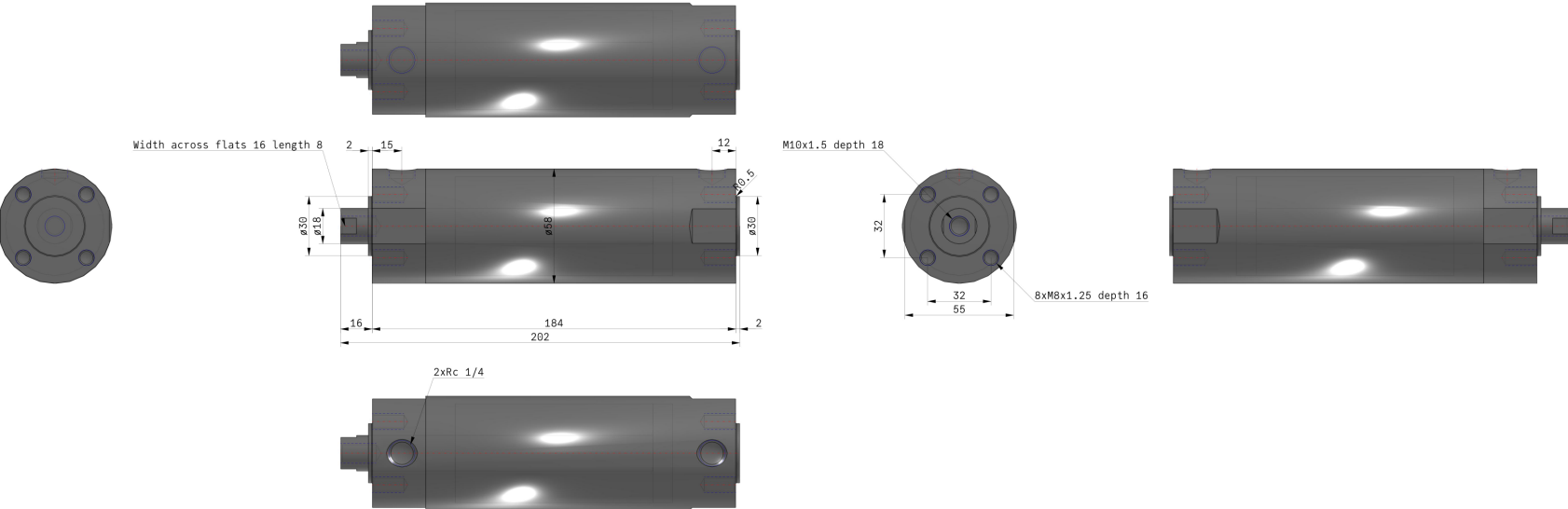
Double-acting, single-rod cylinder

### Standard specifications

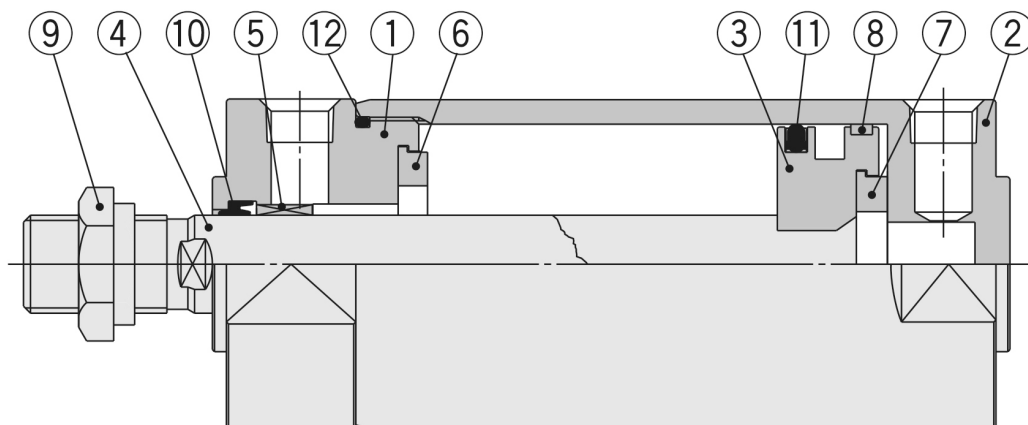
|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| Magnet                                             | D (Built-in)                              |
| Mounting                                           | B (Basic)                                 |
| Bore Size                                          | 50 mm                                     |
| Stroke                                             | 100                                       |
| Rod End Thread                                     | F (Female Thread)                         |
| 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) |
| Pressure medium                                    | Air                                       |
| Maximum temperature of pressure medium with magnet | 60 °C                                     |
| Maximum operating pressure                         | 0.7 MPa                                   |
| Minimum operating pressure                         | 0.05 MPa                                  |
| Proof pressure                                     | 1.0 MPa                                   |
| Maximum ambient temperature with magnet            | 60 °C                                     |
| Minimum ambient temperature with magnet            | -10 °C                                    |
| Mode of operation of drive                         | Double acting                             |
| Maximum piston speed                               | 1000 mm/s                                 |

|                                  |                           |
|----------------------------------|---------------------------|
| Geometric form of the piston rod | Single rod                |
| Minimum piston speed             | 50 mm/s                   |
| Allowable kinetic energy         | 0.91 J                    |
| Lubrication                      | Not required (non-lube)   |
| Stroke length tolerance          | Up to 300 mm st +1.4 0 mm |
| Weight                           | 0.990 Kg                  |

Dimensions



## Constructions



## Component Parts

| No. | Description        | Material        | Note                |
|-----|--------------------|-----------------|---------------------|
| 1   | <b>Rod cover</b>   | Aluminium alloy | Hard anodised       |
| 2   | <b>Tube cover</b>  | Aluminium alloy | Hard anodised       |
| 3   | <b>Piston</b>      | Aluminium alloy | Chromated           |
| 4   | <b>Piston rod</b>  | Iron*           | Hard chrome plated* |
| 5   | <b>Bushing</b>     | Copper alloy    |                     |
| 6   | <b>Bumper A</b>    | Urethane        |                     |
| 7   | <b>Bumper B</b>    | Urethane        |                     |
| 8   | <b>Wear ring</b>   | Resin           |                     |
| 9   | <b>Rod end nut</b> | Iron            | Nickel plated       |
| 10  | <b>Rod seal</b>    | NBR             |                     |
| 11  | <b>Piston seal</b> | NBR             |                     |
| 12  | <b>Tube gasket</b> | NBR             |                     |

## Additional information

Catalogue

[CG3-B\\_EU.pdf](#)