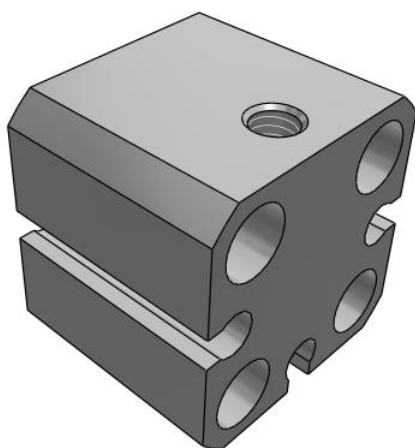




## C(D)QS, Compact Cylinder, Single Acting, Single Rod CQSB12-5SM

Datasheet

### General series information

- Spring extend or spring return
- Bore sizes in mm: 12, 16, 20, 25
- Strokes: 5mm & 10mm
- Mounts: through hole, both ends tapped, foot, front or rear flanges
- Variety of switches and a variety of lead wire lengths



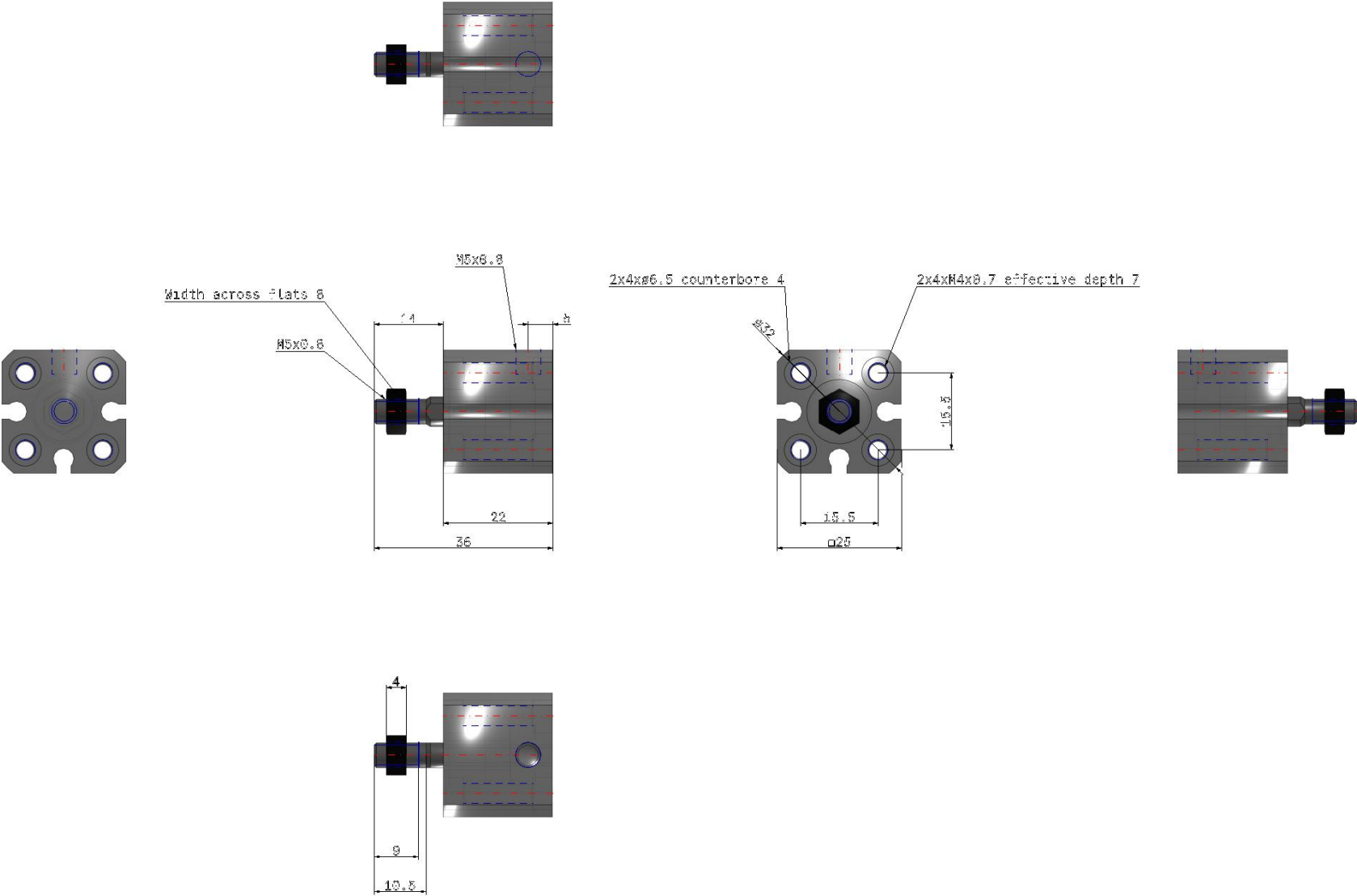
Single-acting cylinder, single piston rod, return stroke by spring

### Standard specifications

|                                        |                                           |
|----------------------------------------|-------------------------------------------|
| Magnet                                 | None                                      |
| Mounting                               | B (Through Hole, Both Ends Tapped)        |
| Bore Size                              | Ø12 mm                                    |
| Stroke                                 | 5 mm                                      |
| Action                                 | S (Single Acting Spring Return)           |
| Option                                 | M (Rod End Male Thread)                   |
| Auto Switch                            | No Switch                                 |
| Lead Wire or Prewired Connector        | 0.5 m (Or None in the Case of No Switch)  |
| Number                                 | 2 pcs. (Or None in the Case of No Switch) |
| Rod End Options                        | None                                      |
| Pressure medium                        | Air                                       |
| Maximum temperature of pressure medium | 70 °C                                     |
| Minimum temperature of pressure medium | -10 °C                                    |
| Maximum operating pressure             | 1.0 MPa                                   |
| Minimum operating pressure             | 0.25 MPa                                  |
| Proof pressure                         | 1.5 MPa                                   |
| Maximum ambient temperature            | 70 °C                                     |
| Minimum ambient temperature            | -10 °C                                    |

|                                                        |                              |
|--------------------------------------------------------|------------------------------|
| Number of pneumatic connections                        | 1 pc.                        |
| Pneumatic input connection                             | M5                           |
| Mode of operation of drive single                      | Single acting, spring return |
| Theoretical cylinder force, return stroke (at 0.5 MPa) | 43 N                         |
| Maximum piston speed                                   | 500 mm/s                     |
| Piston rod end                                         | External thread              |
| Geometric form of the piston rod                       | Round piston rod             |
| Male thread of rod end                                 | M5                           |
| Minimum piston speed                                   | 50 mm/s                      |
| Lubrication                                            | Non-lube                     |
| Weight                                                 | 0.038 Kg                     |

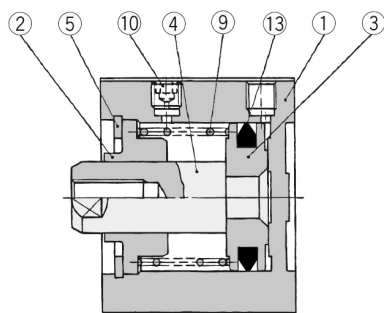
Dimensions



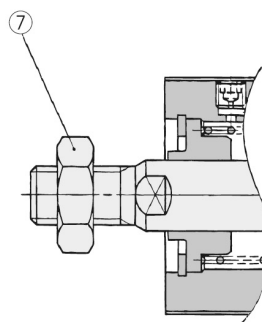
## Constructions

### Construction

#### Single acting/Spring return



#### Rod end nut



#### Component Parts

| No. | Description             | Material                | Note              |
|-----|-------------------------|-------------------------|-------------------|
| 1   | Cylinder tube           | Aluminium alloy         | Hard anodised     |
| 2   | Collar                  | Aluminium bearing alloy | Anodised          |
| 3   | Piston                  | Aluminium alloy         | Spring return     |
|     |                         | Stainless steel         | Spring extend     |
| 4   | Piston rod              | Stainless steel         |                   |
| 5   | Snap ring               | Carbon tool steel       | Phosphate coating |
| 7   | Rod end nut             | Carbon steel            | Nickel plated     |
| 9   | Return spring           | Piano wire              | Zinc chromated    |
| 10  | Plug with fixed orifice | Alloy steel             | Nickel plated     |
| 13  | Piston seal             | NBR                     |                   |

## Additional information

Catalogue

[CQS\\_EU.pdf](#)