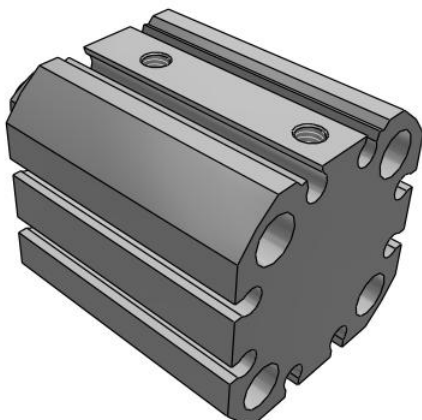




## C(D)55, Compact Cylinder ISO Standard (ISO 21287) C55B25-5M

Datasheet

### General series information

- This product is being discontinued and will be replaced by C55-Z series. [Update details here.](#)
- Conforms with the ISO 21287 standard.
- Bore sizes of 20, 25, 32, 40, 50, 63, 80 & 100 mm.
- Large stroke range from 5 mm up to 150 mm.
- Construction is similar to the current CQ2 lateral load resistant specification.
- Snap ring construction allows easy and quicker maintenance.
- Auto switches can be mounted on any of the four sides of the cylinder tube.



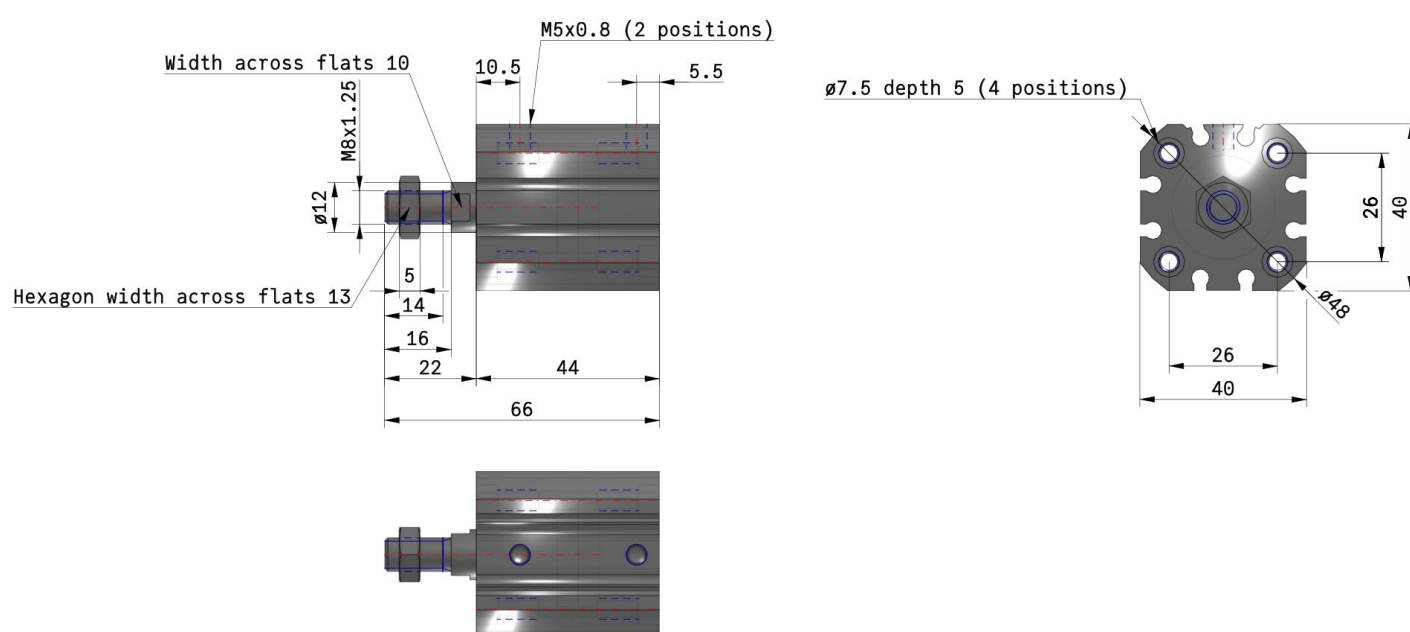
Double-acting, single-rod cylinder

### Standard specifications

|                                                    |                                            |
|----------------------------------------------------|--------------------------------------------|
| Built-in Magnet                                    | Without Magnet                             |
| Mounting Style                                     | B (Standard)                               |
| Bore Size                                          | 25mm                                       |
| Stroke                                             | 5                                          |
| Rod End Thread                                     | M (Rod End Male 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]  |
| Rod End Options                                    | None                                       |
| Made of Stainless Steel                            | None                                       |
| Pressure medium                                    | Air; Air                                   |
| Maximum temperature of pressure medium             | 70 °C; 70 °C                               |
| Maximum temperature of pressure medium with magnet | 60 °C; 60 °C                               |
| Minimum temperature of pressure medium             | -10 °C (No freezing); -10 °C (No freezing) |
| Minimum temperature of pressure medium with magnet | -10 °C (No freezing); -10 °C (No freezing) |
| Maximum operating pressure                         | 1.0 MPa                                    |

|                                                         |                                           |
|---------------------------------------------------------|-------------------------------------------|
| Minimum operating pressure                              | 0.05 MPa                                  |
| Proof pressure                                          | 1.5 MPa                                   |
| Maximum ambient temperature                             | 70 °C;70 °C                               |
| Maximum ambient temperature with magnet                 | 60 °C;60 °C                               |
| Minimum ambient temperature                             | -10 °C (No freezing)                      |
| Minimum ambient temperature with magnet                 | -10 °C (No freezing);-10 °C (No freezing) |
| Number of pneumatic connections                         | 2 pcs.                                    |
| Pneumatic input connection                              | M5                                        |
| Pneumatic exhaust connection                            | M5                                        |
| Mode of operation of drive                              | Double acting                             |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 245 N                                     |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 189 N                                     |
| Maximum piston speed                                    | 500 mm/s                                  |
| Type of cushioning                                      | Rubber bumper on both end                 |
| Geometric form of the piston rod                        | Single rod                                |
| Male thread of rod end                                  | M8 x 1.25                                 |
| Weight                                                  | 0.163 Kg                                  |

## Dimensions



## Constructions



### With auto switch (Built-in magnet)



### Component Parts

| No. | Description    | Material              | Note                                |
|-----|----------------|-----------------------|-------------------------------------|
| 1   | Cylinder tube  | Aluminum alloy        | Hard anodised                       |
| 2   | Piston         | Aluminum alloy        | Chromated                           |
| 3   | Piston rod     | Stainless steel       | Ø20, Ø25                            |
|     |                | Carbon steel          | Ø32 to Ø100 Hard chrome plated      |
| 4   | Collar         | Aluminum alloy        | Ø20 to Ø40 Anodized                 |
|     |                | Aluminum alloy casted | Ø50 to Ø100 Painted after chromated |
| 5   | Retaining ring | Carbon tool steel     | Phosphate coated                    |
| 6   | Bumper A       | Urethane              |                                     |
| 7   | Bumper B       | Urethane              |                                     |
| 8   | Bushing        | Bearing alloy         |                                     |
| 9   | Wear ring      | Resin                 | Ø20 to Ø63                          |
| 10  | Magnet         | —                     |                                     |
| 11  | Rod end nut    | Carbon steel          | Nickel plated                       |
| 12  | Rod seal       | NBR                   |                                     |
| 13  | Piston seal    | NBR                   |                                     |
| 14  | Tube gasket    | NBR                   |                                     |

### Replacement Parts/Seal Kit

| Bore size (mm) | Kit no.    | Contents                    |
|----------------|------------|-----------------------------|
| 20             | CQ2B20-PS  | Set of nos. at left ⑫, ⑬, ⑭ |
| 25             | CQ2B25-PS  |                             |
| 32             | CQ2B32-PS  |                             |
| 40             | CQ2B40-PS  |                             |
| 50             | CQ2B50-PS  |                             |
| 63             | CQ2B63-PS  |                             |
| 80             | CQ2B80-PS  |                             |
| 100            | CQ2B100-PS |                             |

\* Seal kit includes ⑫, ⑬, ⑭. Order the seal kit, based on each bore size.

## Additional information

Catalogue

[C55-B\\_EU.pdf](#)

Operation manuals

[OM\\_C55\\_OM0280QEN-2.pdf](#)