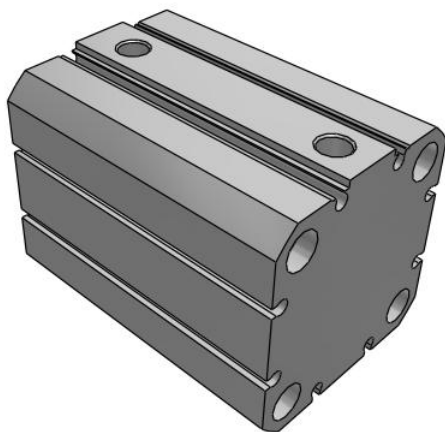




## C(D)55, Compact Cylinder ISO Standard (ISO 21287) CD55B50-45M

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.



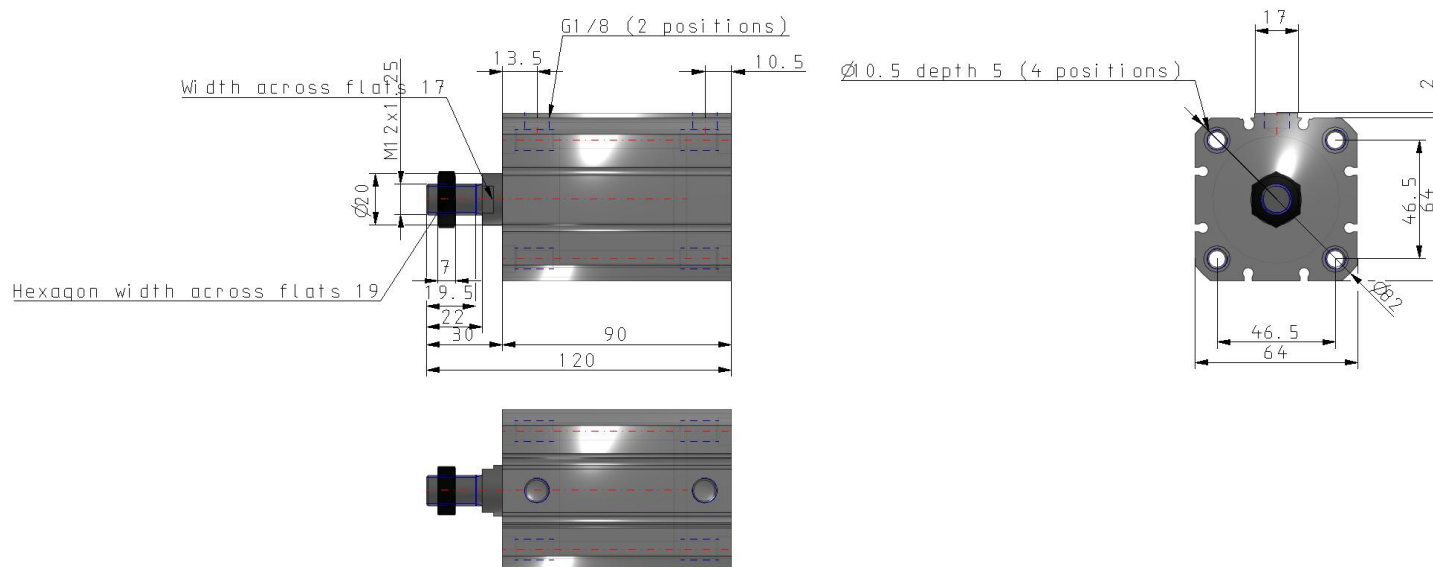
Double-acting, single-rod cylinder

### Standard specifications

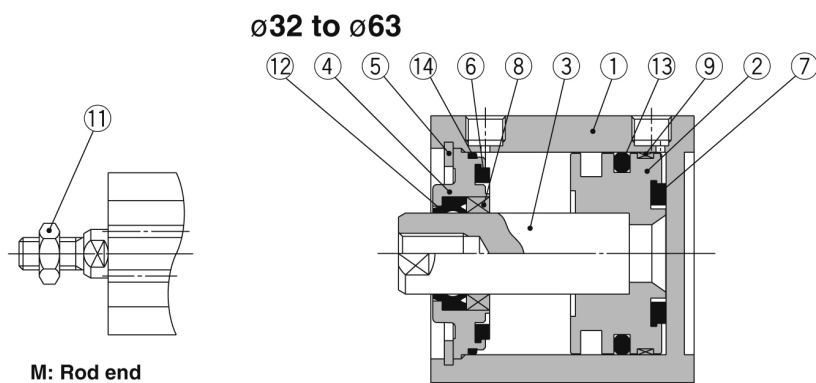
|                                                    |                                            |
|----------------------------------------------------|--------------------------------------------|
| Built-in Magnet                                    | D (With Magnet)                            |
| Mounting Style                                     | B (Standard)                               |
| Bore Size                                          | 50 mm                                      |
| Stroke                                             | 45                                         |
| 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                              | G 1/8                                     |
| Pneumatic exhaust connection                            | G 1/8                                     |
| Mode of operation of drive                              | Double acting                             |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 982 N                                     |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 825 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                                  | M12 x 1.25                                |
| Weight                                                  | 0.831 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<br>Carbon steel         | ø20, ø25<br>ø32 to ø100 Hard chrome plated                 |
| 4   | Collar         | Aluminum alloy<br>Aluminum alloy casted | ø20 to ø40 Anodized<br>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-1.pdf](#)