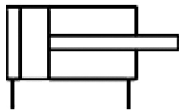


C(D)55, Compact Cylinder ISO Standard (ISO 21287) C55B50-25

Datasheet

- 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.



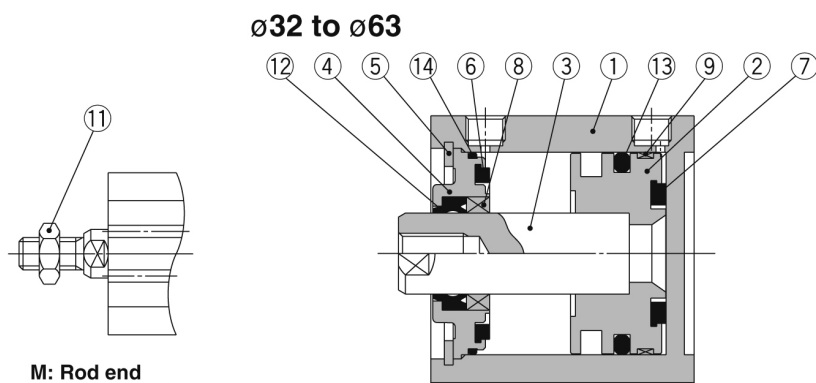
Double-acting, single-rod cylinder

Standard specifications

| | |
|--|---|
| Built-in Magnet | Without Magnet |
| Mounting Style | B (Standard) |
| Bore Size | 50mm |
| Stroke | 25 |
| Rod End Thread | Rod End 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] |
| Rod End Options | None |
| Made of Stainless Steel | None |
| Pressure medium | Air |
| Maximum temperature of pressure medium | 70 °C |
| Maximum temperature of pressure medium with magnet | 60 °C |
| Minimum temperature of pressure medium | -10 °C (No freezing) |
| Minimum temperature of pressure medium with magnet | -10 °C (No freezing) |
| Maximum operating pressure | 1.0 MPa |
| Minimum operating pressure | 0.05 MPa |
| Proof pressure | 1.5 MPa |

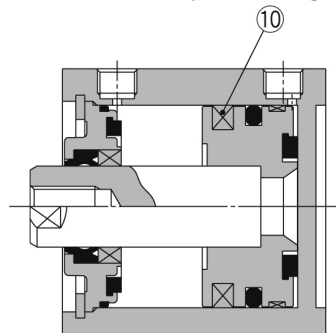
| | |
|---|---------------------------|
| Maximum ambient temperature | 70 °C |
| Maximum ambient temperature with magnet | 60 °C |
| Minimum ambient temperature | -10 °C (No freezing) |
| Minimum ambient temperature with magnet | -10 °C (No freezing) |
| Number of pneumatic connections | 2 pcs. |
| 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 |
| Female thread of rod end | M10 x 1.5 |
| Weight | 0.644 Kg |

Constructions



M: Rod end male thread

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 | |
| 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 | c55_c55-om00031.pdf |