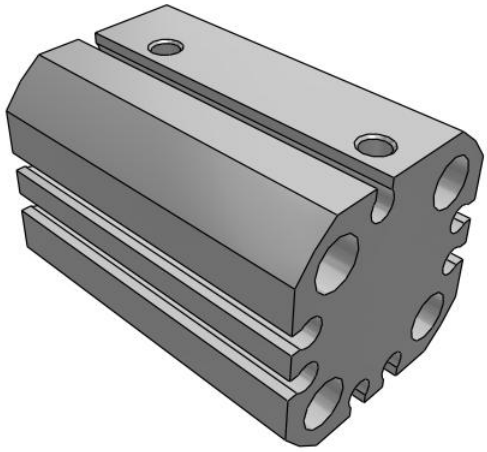


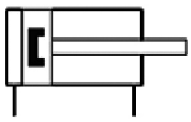
# C(D)55, Compact Cylinder ISO Standard (ISO 21287)

## CD55B20-15

Datasheet

## General series information

- 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 | 20mm |
| Stroke | 15 |
| 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 ºC (No freezing) |
| Minimum temperature of pressure medium with magnet | -10 ºC (No freezing) |
| Maximum operating pressure | 1.0 MPa |
| Minimum operating pressure | 0.05 MPa |

*Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.*



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| | |
|---|---|
| Proof pressure | 1.5 MPa |
| Maximum ambient temperature | 70 °C |
| Maximum ambient temperature with magnet | 60 °C |
| Minimum ambient temperature | -10 ºC (No freezing) |
| Minimum ambient temperature with magnet | -10 ºC (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) | 157 N |
| Theoretical cylinder force, return stroke (at 0.5 MPa) | 118 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 |
| Female thread of rod end | M6 x 1.0 |
| Weight | 0.139 Kg |

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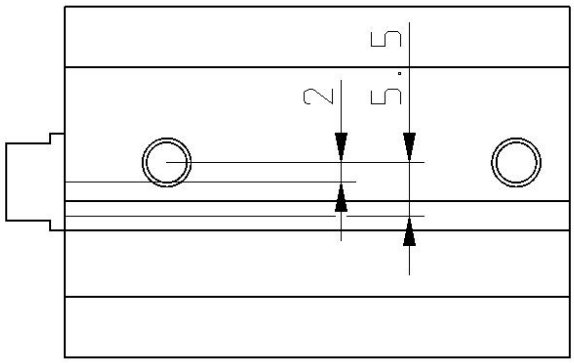
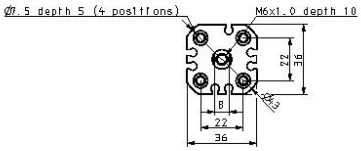
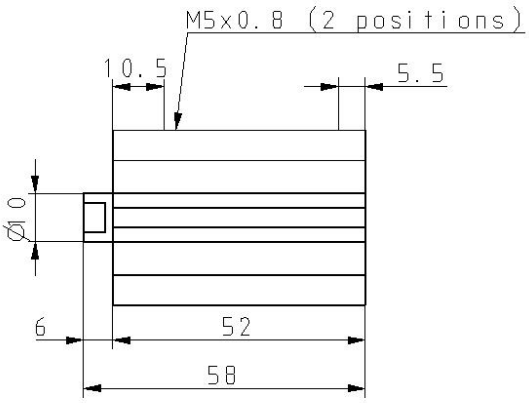
# Dimensions

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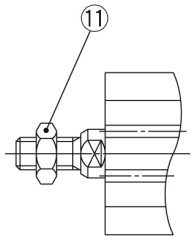
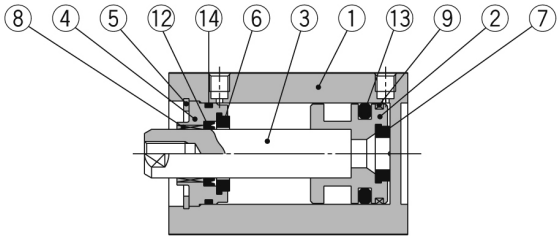
# Constructions

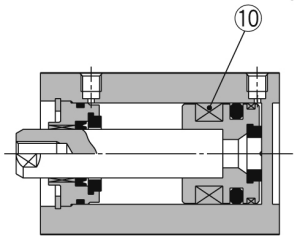



M: Rod end male thread

ø20, ø25




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.

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## Additional information

| | |
|---|---|
| Catalogue | C55-B_EU.pdf |
| Operation manuals | c55_c55-om00031.pdf |

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