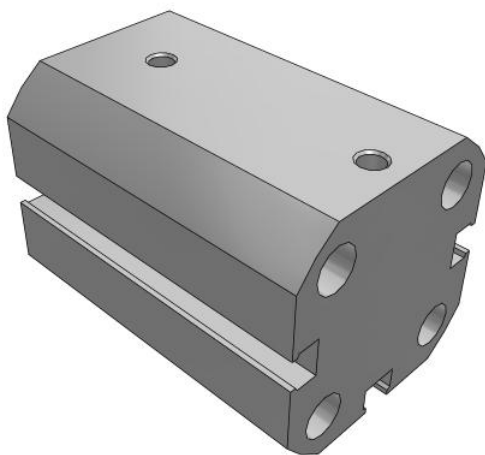




## C(D)55-X1439, Compact Cylinder ISO Standard (ISO 21287), Auto Switch Mounting Groove: T-slot Type CD55B25-20-X1439

Datasheet

### General series information

- Conforms with the ISO 21287 standard.
- Bore sizes of 20, 25, 32, 40, 50 & 63 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 Switch Mounting Groove: T-slot Type.



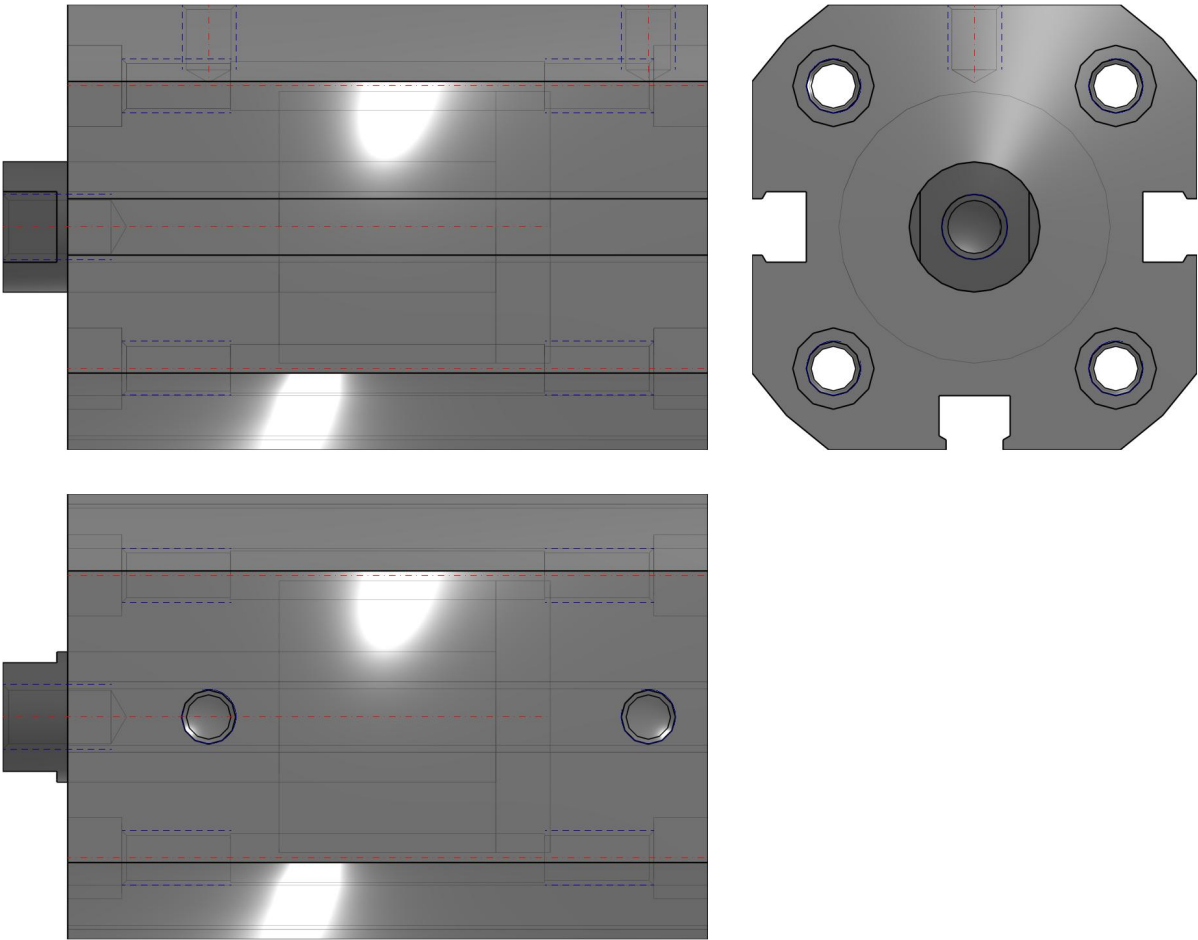
Double-acting, single-rod cylinder

### Standard specifications

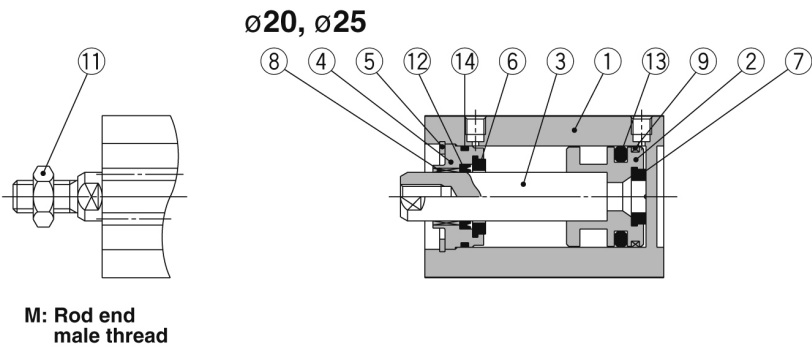
|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| Built-in Magnet                                    | D (With Magnet)                           |
| Mounting Style                                     | B (Standard)                              |
| Bore Size                                          | Ø25 mm                                    |
| Stroke                                             | 20 mm                                     |
| Rod End Thread                                     | Rod End Female Thread                     |
| Auto Switch                                        | Without Autoswitch                        |
| Number                                             | 2 pcs. [Or None in the Case of No Switch] |
| Pressure medium                                    | Compressed Air                            |
| Maximum temperature of pressure medium             | 70 °C                                     |
| Maximum temperature of pressure medium with magnet | 60 °C                                     |
| Minimum temperature of pressure medium             | -10 °C [without condensation]             |
| Minimum temperature of pressure medium with magnet | -10 °C [without condensation]             |
| 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                    |
| Minimum ambient temperature with magnet                 | -10 °C                    |
| Number of pneumatic connections                         | 2 pcs.                    |
| Pneumatic input connection                              | M5                        |
| Pneumatic output 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 |
| Piston rod end                                          | Female Thread             |
| Geometric form of the piston rod                        | Single rod                |
| Male thread of rod end                                  | M8                        |
| Female thread of rod end                                | M6                        |
| Minimum piston speed                                    | 50 mm/s                   |
| Weight                                                  | 0.201 Kg                  |

Dimensions



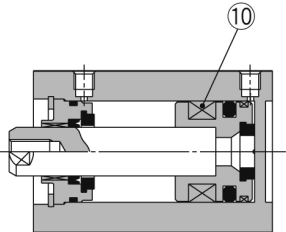
# Constructions



## 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                   |                                     |

## With auto switch (Built-in magnet)



## 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-X1439\\_EU.pdf](#)