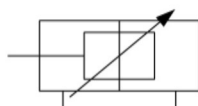


## C(D)85, ISO Standard Cylinder, Double Acting, Single Rod CD85N20-80C-B

### Datasheet

The C85 series conforms to ISO 6432 and CETOP RP52P. The C85 is available in bore sizes 8mm through 25mm with standard strokes ranging from 10mm through 300mm. A unique rod packing design prevents entry of dust and the effectiveness of the seal is such that the C85 is suitable for use in extremely dusty environments. With abrasion resistant packings and replaceable nose seals, the C85 offers exceptional service life.



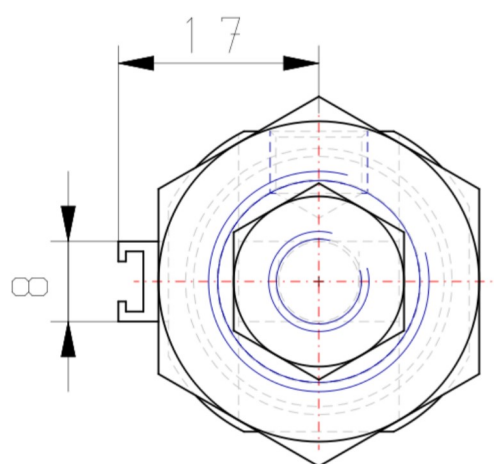
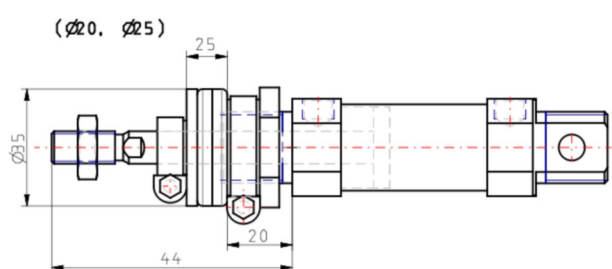
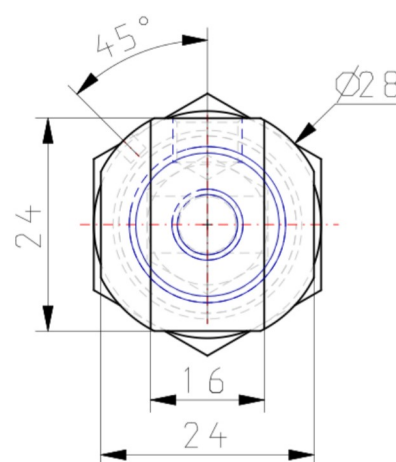
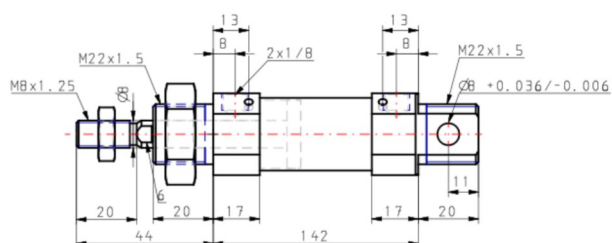
*Double-acting cylinder with cushioning  
adjustable at both ends, single piston rod*

### Standard specifications

|                                                    |                             |
|----------------------------------------------------|-----------------------------|
| Magnet                                             | D (Built-in)                |
| Mounting                                           | N (Basic Integrated Clevis) |
| Bore Size                                          | Ø20 mm                      |
| Stroke                                             | 80                          |
| Cushion                                            | C (Air Cushion)             |
| Rod Boot                                           | None                        |
| Auto Switch Mounting Type                          | B (Band)                    |
| Rod End Options                                    | None                        |
| Temperature Resistance                             | None                        |
| Low Speed                                          | None                        |
| Stainless Steel                                    | None                        |
| Long Stroke                                        | None                        |
| -                                                  | Compressed Air              |
| Maximum temperature of pressure medium with magnet | 80 °C                       |
| Minimum temperature of pressure medium with magnet | -20 °C                      |
| Maximum operating pressure                         | 1 MPa                       |
| Minimum operating pressure                         | 0.05 MPa                    |
| Proof pressure                                     | 1.5 MPa                     |
| Maximum ambient temperature with magnet            | 80 °C                       |
| Minimum ambient temperature with magnet            | -20 °C                      |

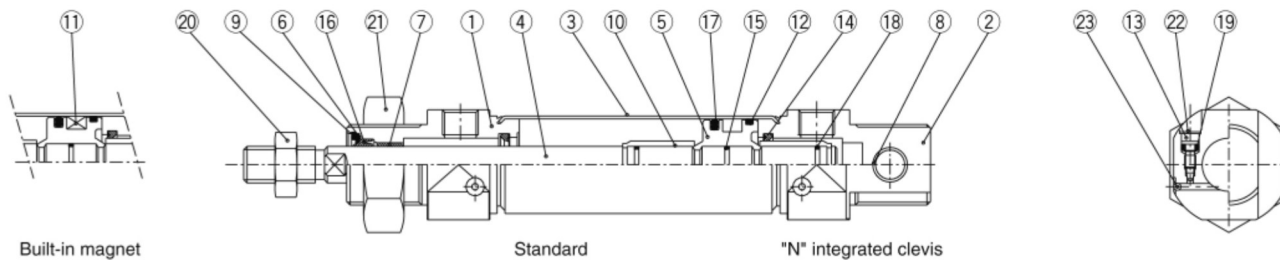
|                                                         |                 |
|---------------------------------------------------------|-----------------|
| Pneumatic input connection                              | G 1/8           |
| Pneumatic output connection                             | G 1/8           |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 157.1 N         |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 132.0 N         |
| Maximum piston speed                                    | 1,500 mm/s      |
| Type of cushioning                                      | Air cushion     |
| Piston rod end                                          | External thread |
| Male thread of rod end                                  | M8              |
| Minimum piston speed                                    | 50 mm/s         |
| Weight                                                  | 0.302 Kg        |

## Dimensions



## Constructions

### C□85□20, 25 Air cushion



### Component Parts

| No. | Description    | Material        | Quantity | Remarks            |
|-----|----------------|-----------------|----------|--------------------|
| ①   | Rod cover      | Aluminum alloy  | 1        | White anodized     |
| ②   | Head cover N   | Aluminum alloy  | 1        | White anodized     |
| ③   | Cylinder tube  | Stainless steel | 1        |                    |
| ④   | Piston rod     | Carbon steel    | 1        | Hard chrome plated |
| ⑤   | Piston         | Aluminum alloy  | 1        | Chromated          |
| ⑥   | Plain washer   | Carbon steel    | 1        | Nickel plated      |
| ⑦   | Bushing        | Sintered bronze | 1        |                    |
| ⑧   | Bushing        | Sintered bronze | 1        |                    |
| ⑨   | Retaining ring | Carbon steel    | 1        | Nickel plated      |
| ⑩   | Cushion ring   | Copper alloy    | 2        | Hard chrome plated |
| ⑪   | Magnet         |                 | 1        |                    |
| ⑫   | Wear ring      | Phenolic resin  | 1        |                    |

| No. | Description           | Material        | Quantity | Remarks       |
|-----|-----------------------|-----------------|----------|---------------|
| ⑬   | Cushion valve         | Carbon steel    | 2        | Nickel plated |
| ⑭   | Cushion seal          | Urethane        | 2        |               |
| ⑮   | Piston gasket         | NBR             | 1        |               |
| ⑯   | Rod seal              | NBR             | 1        |               |
| ⑰   | Piston seal           | NBR             | 1        |               |
| ⑱   | Cushion ring gasket   | NBR             | 2        |               |
| ⑲   | Cushion valve packing | NBR             | 2        |               |
| ⑳   | Rod end nut           | Carbon steel    | 1        | Nickel plated |
| ㉑   | Mounting nut          | Carbon steel    | 1        | Nickel plated |
| ㉒   | Self locking ring     | Stainless steel | 2        |               |
| ㉓   | Steel ball            | Stainless steel | 2        |               |

## Additional information

Catalogue

[C85\\_C75-A\\_EU.pdf](#)