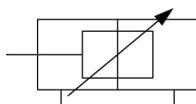


## C(D)85, ISO Standard Cylinder, Double Acting, Single Rod CD85N12-125C-B

### Datasheet

- Double acting, single rod, crimped cylinder
- Conforms to ISO 6432 and CETOP RP52P
- Bore sizes (mm): 8, 10, 12, 16, 20, 25
- Standard strokes up to 300mm
- Auto switch capable



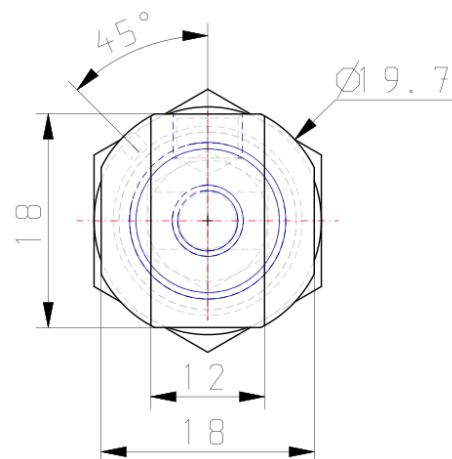
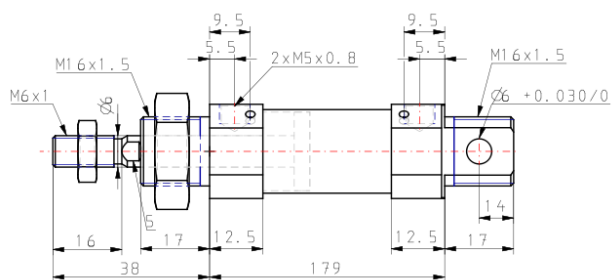
*Double-acting cylinder with cushioning  
adjustable at both ends, single piston rod*

### Standard specifications

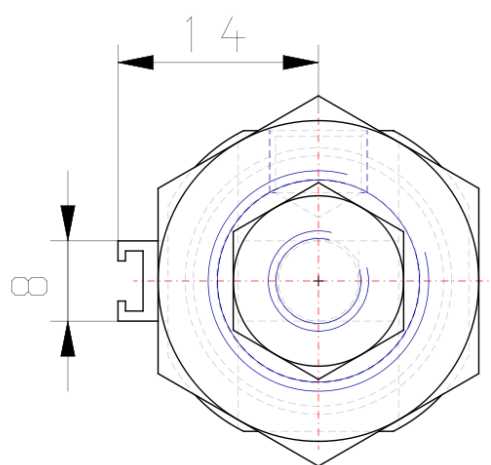
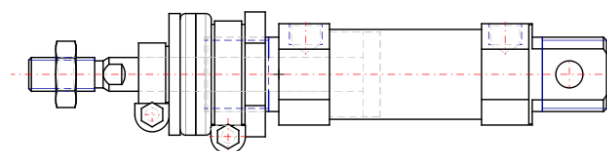
|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| Magnet                                             | D (Built-in)                              |
| Mounting                                           | N (Basic Integrated Clevis)               |
| Bore Size                                          | Ø12 mm                                    |
| Stroke                                             | 125                                       |
| Cushion                                            | C (Air Cushion)                           |
| Rod Boot                                           | None                                      |
| Auto Switch Mounting Type                          | B (Band)                                  |
| 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                                      |
| Temperature Resistance                             | None                                      |
| Low Speed                                          | None                                      |
| Stainless Steel                                    | None                                      |
| Long Stroke                                        | None                                      |
| Pressure medium                                    | 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                              | 0.08 MPa        |
| Proof pressure                                          | 1.5 MPa         |
| Maximum ambient temperature with magnet                 | 80 °C           |
| Minimum ambient temperature with magnet                 | -20 °C          |
| Conform to the European RoHS Directive                  | Conform         |
| Number of pneumatic connections                         | 2 pcs.          |
| Pneumatic input connection                              | M5              |
| Pneumatic output connection                             | M5              |
| Mode of operation of drive                              | Double acting   |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 56.6 N          |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 42.4 N          |
| Maximum piston speed                                    | 1,500 mm/s      |
| Type of cushioning                                      | Air cushion     |
| Piston rod end                                          | External thread |
| Geometric form of the piston rod                        | Single rod      |
| Male thread of rod end                                  | M6              |
| Minimum piston speed                                    | 50 mm/s         |
| Weight                                                  | 0.174 Kg        |

## Dimensions



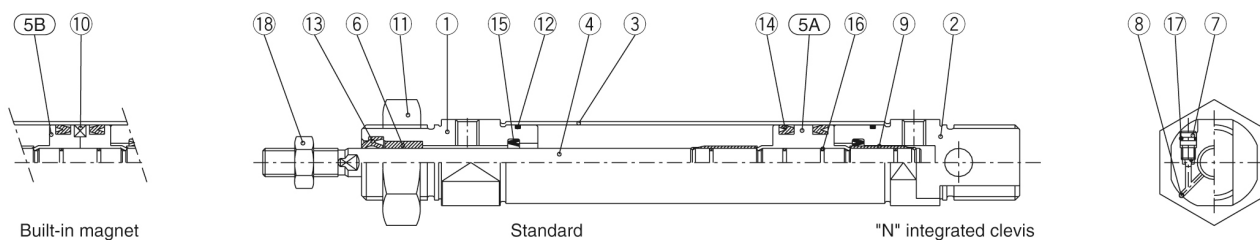
( $\phi 20$ ,  $\phi 25$ )



## Constructions

### Double acting: Single rod

C□85□10 to 16 Air cushion (Disassembly is not possible)



### 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     | Stainless steel | 1        |                       |
| ⑤A  | Piston A       | Brass           | 1        |                       |
| ⑤B  | Piston B       | Brass           | 2        | (Switch style piston) |
| ⑥   | Bush           | Sintered bronze | 1        |                       |
| ⑦   | Cushion needle | Stainless steel | 2        |                       |
| ⑧   | Steel ball     | Bearing steel   | 2        |                       |

| No. | Description                         | Material     | Quantity | Remarks       |
|-----|-------------------------------------|--------------|----------|---------------|
| ⑨   | Cushion ring                        | Brass        | 2        |               |
| ⑩   | Magnet                              |              | 1        |               |
| ⑪   | Mounting nut                        | Carbon steel | 1        | Nickel plated |
| ⑫   | Tube gasket                         | NBR          | 2        |               |
| ⑬   | Rod seal                            | NBR          | 1        |               |
| ⑭   | Piston seal                         | NBR          | 2        |               |
| ⑮   | Check seal                          | NBR          | 2        |               |
| ⑯   | Piston gasket & cushion ring gasket | NBR          | 3        |               |
| ⑰   | Needle seal                         | NBR          | 2        |               |
| ⑱   | Rod end nut                         | Carbon steel | 1        | Nickel plated |

## Additional information

Catalogue

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