

## C(D)85, ISO Standard Cylinder, Double Acting, Single Rod CD85N25-50C-A

### Datasheet

### General series information

- 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

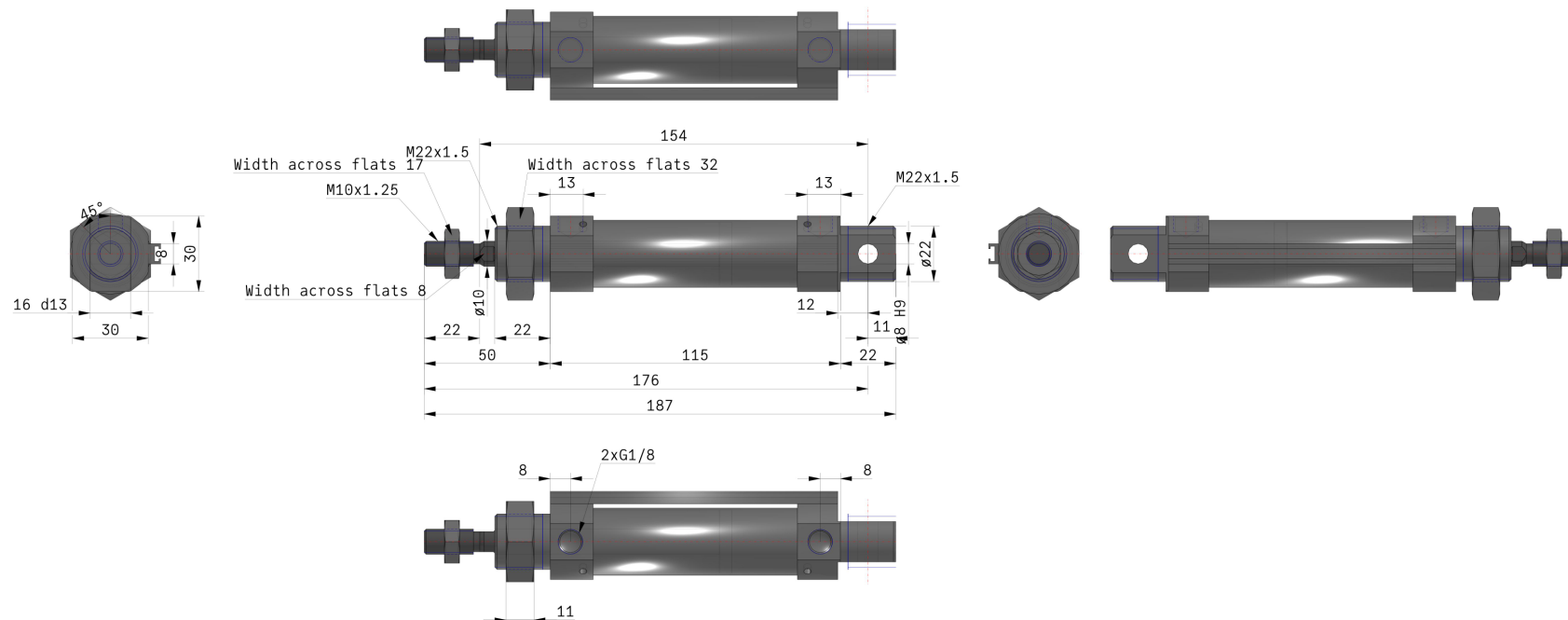


*Double-acting cylinder with cushioning  
adjustable at both ends, single piston rod*

### Standard specifications

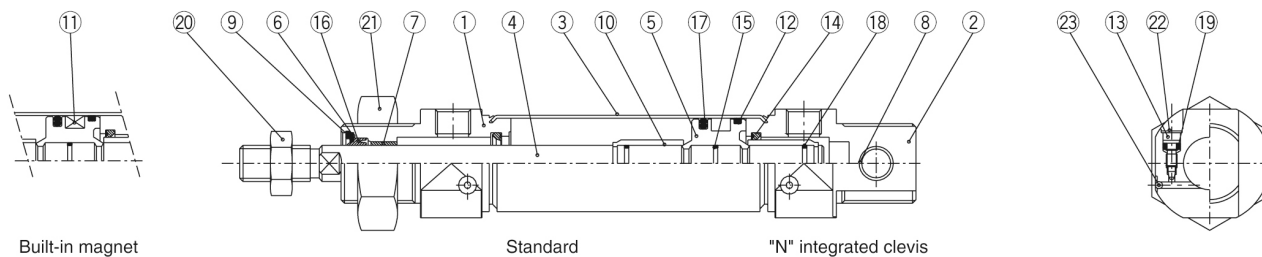
|                                                    |                                          |
|----------------------------------------------------|------------------------------------------|
| Magnet                                             | D (Built-in)                             |
| Mounting                                           | N (Basic Integrated Clevis)              |
| Bore Size                                          | Ø25 mm                                   |
| Stroke                                             | 50                                       |
| Cushion                                            | C (Air Cushion)                          |
| Rod Boot                                           | None                                     |
| Auto Switch Mounting                               | A (Rail)                                 |
| Auto Switch                                        | No Switch                                |
| Lead Wire or Pre-wired Connector                   | 0.5 m (Or None in the Case of No Switch) |
| Number                                             | 2 pcs. (Or None in 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             | 80 °C                                    |
| Maximum temperature of pressure medium with magnet | 60 °C                                    |

|                                                         |                               |
|---------------------------------------------------------|-------------------------------|
| Minimum temperature of pressure medium                  | -20 °C [without condensation] |
| Minimum temperature of pressure medium with magnet      | -10 °C [without condensation] |
| Maximum operating pressure                              | 1 MPa                         |
| Minimum operating pressure                              | 0.05 MPa                      |
| Proof pressure                                          | 1.5 MPa                       |
| Maximum ambient temperature                             | 80 °C                         |
| Maximum ambient temperature with magnet                 | 60 °C                         |
| Minimum ambient temperature                             | -20 °C                        |
| Minimum ambient temperature with magnet                 | -10 °C                        |
| Number of pneumatic connections                         | 2 pcs.                        |
| Pneumatic input connection                              | G 1/8                         |
| Pneumatic output connection                             | G 1/8                         |
| Mode of operation of drive                              | Double acting                 |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 245.5 N                       |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 206.2 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                                  | M10 x 1.25                    |
| Usable tubing material                                  | Soft nylon;Nylon;Polyurethane |
| Minimum piston speed                                    | 50 mm/s                       |



## 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](#)