



## C(D)85K, ISO Cylinder, Double Acting, Single Rod, Non-Rotating CD85KF20-800-A-X2018

Datasheet

### General series information

- ISO cylinder, double acting, single rod
- Bore sizes (mm): 8, 10, 12, 16, 20, 25
- Type: non-rotating
- Cushion: rubber bumper only
- Strokes (mm): up to 300 (depending on bore)
- Auto switches available (order separate)

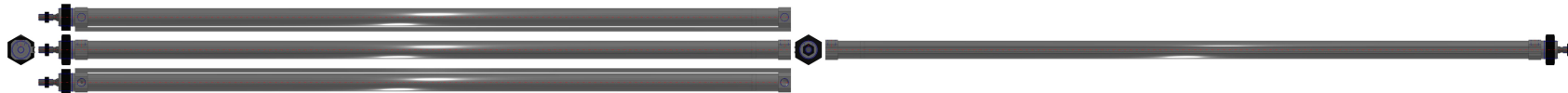


Double-acting cylinder, non-rotating single piston rod

### Standard specifications

|                                                    |                                          |
|----------------------------------------------------|------------------------------------------|
| Magnet                                             | D (Built-in)                             |
| Mounting                                           | F (Boss Cut)                             |
| Bore Size                                          | Ø20 mm                                   |
| Stroke                                             | 800                                      |
| 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                                     |
| Made of Stainless Steel                            | None                                     |
| Long Stroke                                        | X2018 (Long Stroke)                      |
| Pressure medium                                    | Compressed air                           |
| Maximum temperature of pressure medium with magnet | 60 °C                                    |
| Minimum temperature of pressure medium with magnet | -10 °C                                   |
| Maximum operating pressure                         | 1 MPa                                    |
| Minimum operating pressure                         | 0.05 MPa                                 |
| Proof pressure                                     | 1.5 MPa                                  |

|                                                         |                 |
|---------------------------------------------------------|-----------------|
| Maximum ambient temperature with magnet                 | 60 °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) | 157.1 N         |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 132.0 N         |
| Maximum piston speed                                    | 1500 mm/s       |
| Type of cushioning                                      | Rubber bumper   |
| Piston rod end                                          | External thread |
| Geometric form of the piston rod                        | Single rod      |
| Male thread of rod end                                  | M8              |
| Tolerance of torsion                                    | ±0° 42'         |



## Constructions

### C□85□20, 25 Rubber bumper



#### Component Parts

| No. | Description   | Material        | Quantity | Remarks            |
|-----|---------------|-----------------|----------|--------------------|
| ①   | Rod cover     | Aluminum alloy  | 1        | White anodized     |
| ②A  | Head cover N  | Aluminum alloy  | 1        | White anodized     |
| ②B  | Head cover E  | Aluminum alloy  | 1        | White anodized     |
| ②C  | Head cover F  | Aluminum alloy  | 1        | White anodized     |
| ②D  | Head cover Y  | 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 | 2        |                    |

\* Stainless steel (Non-rotating rod)

| No. | Description    | Material       | Quantity | Remarks             |
|-----|----------------|----------------|----------|---------------------|
| ⑨   | Retaining ring | Carbon steel   | 1        | Nickel plated       |
| ⑩   | Retaining ring | Carbon steel   | 2        |                     |
| ⑪   | Magnet         |                | 1        | (Switch style only) |
| ⑫   | Wear ring      | Phenolic resin | 1        |                     |
| ⑬   | Bumper A       | Urethane       | 1        |                     |
| ⑭   | Bumper B       | Urethane       | 1        |                     |
| ⑮   | Piston gasket  | NBR            | 1        |                     |
| ⑯   | Rod seal       | NBR            | 1        |                     |
| ⑰   | Piston seal    | NBR            | 1        |                     |
| ⑱   | Rod end nut    | Carbon steel   | 1        | Nickel plated       |
| ⑲   | Mounting nut   | Carbon steel   | 1        | Nickel plated       |

## Additional information

Catalogue

[VDMA-C85\\_EU.pdf](#)