

## C(D)85R, ISO Cylinder, Double Acting, Single Rod, Direct Mount CD85RAF10-50-B

### Datasheet

### General series information

- ISO cylinder, double acting, single rod
- Bore sizes (mm): 8, 10, 12, 16, 20, 25
- Type: direct mount
- Cushion: rubber bumper only
- Strokes (mm): up to 160 (depending on bore)
- Auto switches available (order separate)



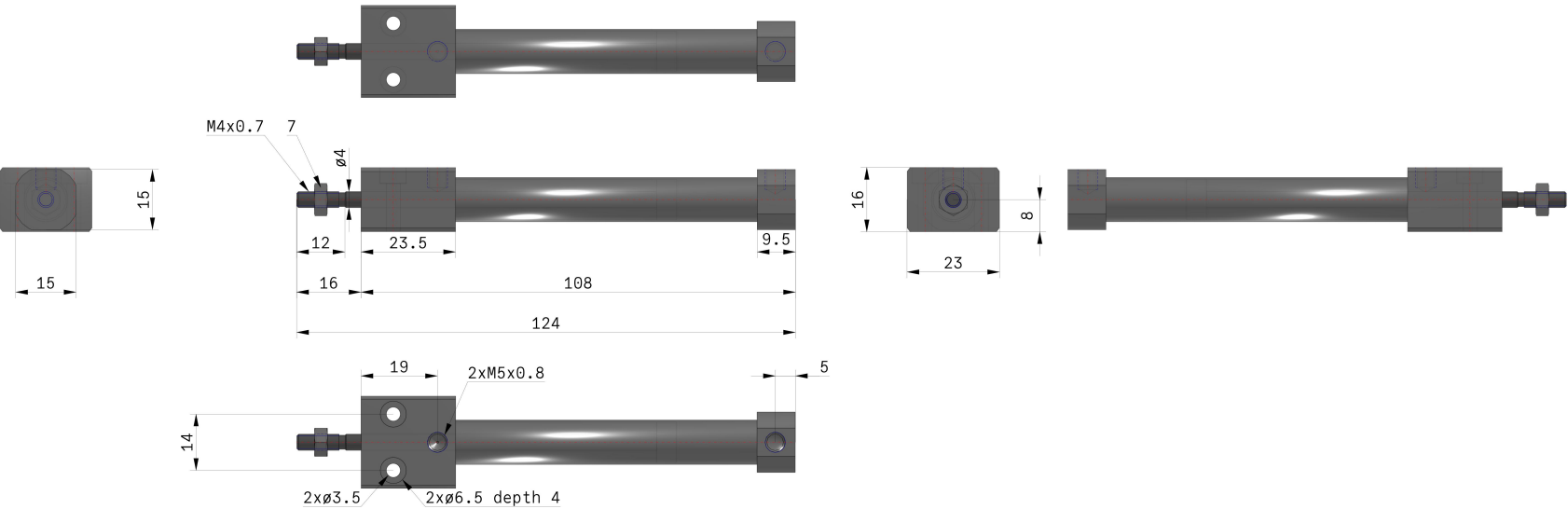
Double-acting cylinder, non-rotating single piston rod

### Standard specifications

|                                                    |                                           |
|----------------------------------------------------|-------------------------------------------|
| Magnet                                             | D (Built-in)                              |
| Type                                               | A (Bottom)                                |
| Mounting                                           | F (Boss Cut)                              |
| Bore Size                                          | Ø10 mm                                    |
| Stroke                                             | 50                                        |
| Switch Mounting                                    | 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                                      |
| Made of Stainless Steel                            | None                                      |
| Long Stroke                                        | None                                      |
| Pressure medium                                    | Compressed Air                            |
| Maximum temperature of pressure medium with magnet | 60 °C                                     |
| Minimum temperature of pressure medium with magnet | -10 °C                                    |

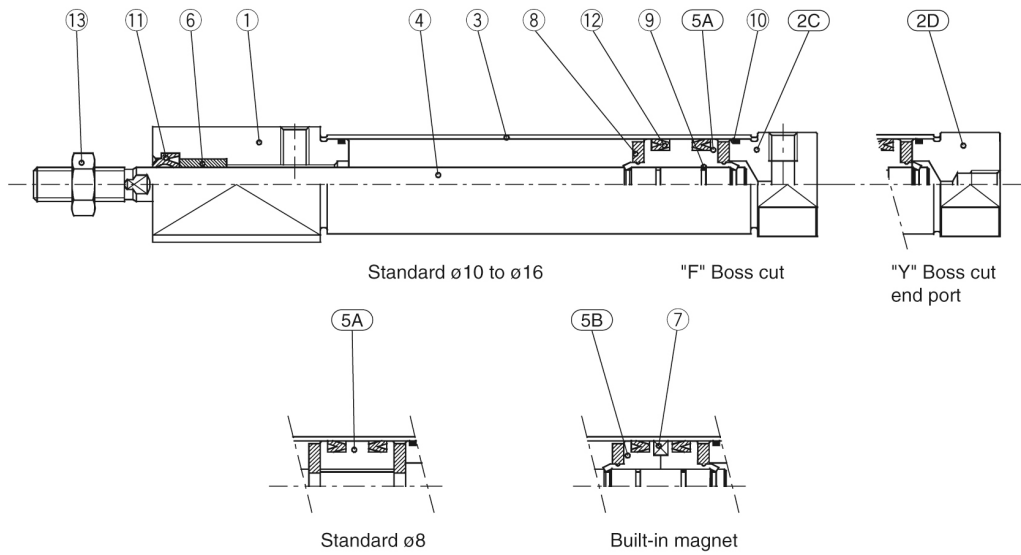
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|---------------------------------------------------------|-----------------|
| Maximum operating pressure                              | 1 MPa           |
| Minimum operating pressure                              | 0.08 MPa        |
| Proof pressure                                          | 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                              | M5              |
| Pneumatic output connection                             | M5              |
| Mode of operation of drive                              | Double acting   |
| Theoretical cylinder force, advance stroke (at 0.5 MPa) | 39.3 N          |
| Theoretical cylinder force, return stroke (at 0.5 MPa)  | 33.0 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                                  | M4              |
| Weight                                                  | 0.057 Kg        |

Dimensions



# Constructions

Double acting: Single rod  
C□85RA8 to 16 (Disassembly is not possible)



## Component Parts

| No. | Description   | Material        | Quantity | Remarks               |
|-----|---------------|-----------------|----------|-----------------------|
| ①   | Rod cover     | 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    | Stainless steel | 1        |                       |
| ⑤A  | Piston "A"    | Brass           | 1        |                       |
| ⑤B  | Piston "B"    | Brass           | 2        | (Switch style piston) |

| No. | Description   | Material        | Quantity | Remarks              |
|-----|---------------|-----------------|----------|----------------------|
| ⑥   | Bushing       | Sintered bronze | 1        |                      |
| ⑦   | Magnet        |                 | 1        | (Switch style only)  |
| ⑧   | Bumper        | Urethane        | 2        |                      |
| ⑨   | Piston gasket | NBR             | 1        | (2 for switch style) |
| ⑩   | Tube gasket   | NBR             | 2        |                      |
| ⑪   | Rod seal      | NBR             | 1        |                      |
| ⑫   | Piston seal   | NBR             | 2        |                      |

## Additional information

Catalogue

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