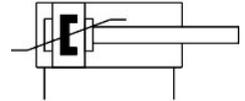


# ISO cylinder DSBF-C-50-50-PPSA-N3-R

Part number: 1780285

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 50 mm  |
| Piston diameter  | 50 mm  |
| Piston rod thread  | M16x1.5  |
| Cushioning   | Self-adjusting pneumatic end-position cushioning   |
| Mounting position  | optional   |
| Conforms to standard   | ISO 15552  |
| Piston-rod end   | Male thread  |
| Design   | Piston<br>Piston rod<br>Profile barrel   |
| Position detection   | Via proximity switch   |
| Operating pressure   | 0.04 MPa...1.2 MPa<br>0.4 bar...12 bar   |
| Mode of operation  | Double-acting  |
| Operating medium   | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Note on operating and pilot medium                           | Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC                               | 3 - high corrosion stress  |
| LABS (PWIS) conformity                                       | VDMA24364-B2-L   |
| Cleanroom suitability, measured according to ISO 14644-14    | Class 5 according to ISO 14644-1   |
| Ambient temperature  | -20 °C...80 °C   |
| Impact energy in end positions                               | 1 J  |
| Cushioning length  | 22 mm  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 990 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 1178 N   |
| Moving mass  | 488 g  |
| Moving mass for 0 mm stroke                                  | 363 g  |
| Additional moving mass per 10 mm stroke                      | 25 g   |
| Product weight   | 1531 g   |
| Basic weight for 0 mm stroke                                 | 1241 g   |
| Additional weight per 10 mm stroke                           | 58 g   |

| Feature                     | Value  |
|-----------------------------|--|
| Type of mounting            | Either:<br>Via female thread<br>With accessories |
| Pneumatic connection        | G1/4   |
| Note on materials           | RoHS-compliant                                   |
| Material cover              | Coated die-cast aluminium                        |
| Material piston seal        | TPE-U(PU)  |
| Material piston             | Wrought aluminium alloy                          |
| Material piston rod         | High-alloy stainless steel                       |
| Material piston rod wiper   | TPE-U(PU)  |
| Buffer seal material        | TPE-U(PU)  |
| Material of cushioning boss | POM  |
| Material cylinder barrel    | Anodised wrought aluminium alloy                 |
| Material nut                | High-alloy stainless steel                       |
| Material bearing            | POM  |
| Material collar screws      | Galvanised steel                                 |