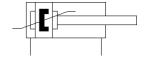
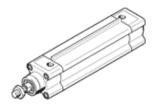
## standards-based cylinder DSBF-C-50-80-PPSA-N3-R Part number: 1780286







## **Data sheet**

| Feature  | Value  |
|--|--|
| Stroke   | 80 mm  |
| Piston diameter  | 50 mm  |
| Piston rod thread  | M16x1,5  |
| Cushioning   | PPS: Self-adjusting pneumatic end-position cushioning            |
| Assembly position  | Any  |
| Conforms to standard                                     | ISO 15552  |
| Piston-rod end   | Male thread  |
| Design structure   | Piston   |
|  | Piston rod   |
|  | Profile barrel   |
| Position detection                                       | For proximity sensor   |
| Operating pressure MPa                                   | 0.04 1.2 MPa   |
| Operating pressure                                       | 0.4 12 bar   |
| Mode of operation  | double-acting  |
| Operating medium   | Compressed air in accordance with ISO8573-1:2010 [7:4:4]         |
| Note on operating and pilot medium                       | Lubricated operation possible (subsequently required for further |
|  | operation)   |
| Corrosion resistance classification CRC                  | 3 - High corrosion stress  |
| PWIS conformity  | VDMA24364-B2-L   |
| Cleanroom class  | ISO class 6  |
| Ambient temperature                                      | -20 80 °C  |
| Impact energy in end positions                           | 11   |
| Cushioning length  | 22 mm  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 990 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 1,178 N  |
| Moving mass  | 563 g  |
| Moving mass with 0 mm stroke                             | 363 g  |
| Additional mass factor per 10 mm of stroke               | 25 g   |
| Product weight   | 1,705 g  |
| Basic weight for 0 mm stroke                             | 1,241 g  |
| Additional weight per 10 mm stroke                       | 58 g   |
| Mounting type  | with internal (female) thread                                    |
|  | with accessories   |
|  | Optional   |
| Pneumatic connection                                     | G1/4   |
| Materials note   | Conforms to RoHS   |
| Material cover   | Die-cast aluminium, coated                                       |
| Material piston seal                                     | TPE-U(PU)  |
| Material piston  | Wrought Aluminium alloy  |
| Material piston rod                                      | High alloy steel, non-corrosive                                  |
| Material piston rod wiper seal                           | TPE-U(PU)  |
| Buffer seal material                                     | TPE-U(PU)  |
| Cushion piston material                                  | POM  |
| Material cylinder barrel                                 | Anodised wrought aluminium alloy                                 |
| Material nut   | High alloy steel, non-corrosive                                  |
| Material bearing   | POM  |
| Material of flange screw                                 | steel, galvanized  |