

# ISO cylinder DSBF-C-50-500-PPSA-N3-R

Part number: 1780294

FESTO



 [General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Stroke  | 500 mm   |
| Piston diameter   | 50 mm  |
| Piston rod thread   | M16x1.5  |
| Cushioning  | Self-adjusting pneumatic end-position cushioning                   |
| Mounting position   | Any  |
| Conforms to standard                                      | ISO 15552  |
| Piston rod end  | External thread  |
| Structural design   | Piston<br>Piston rod<br>Profile barrel                             |
| Position sensing  | For proximity sensor   |
| Symbol  | 00992970   |
| Operating pressure  | 0.04 MPa ... 1.2 MPa   |
| Operating pressure  | 0.4 bar ... 12 bar   |
| Mode of operation   | Double-acting  |
| Operating medium  | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media                  | Operation with oil lubrication possible (required for further use) |
| 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 the end positions                        | 1 J  |
| Cushioning length   | 22 mm  |
| Theoretical force at 6 bar, retracting                    | 990 N  |
| Theoretical force at 6 bar, advancing                     | 1178 N   |
| Moving mass   | 1613 g   |
| Moving mass at 0 mm stroke                                | 363 g  |
| Additional moving mass per 10 mm stroke                   | 25 g   |
| Product weight  | 4141 g   |
| Basic weight with 0 mm stroke                             | 1241 g   |
| Additional weight per 10 mm stroke                        | 58 g   |
| Type of mounting  | With internal thread<br>With accessories                           |
| Pneumatic connection                                      | G1/4   |
| Note on materials   | RoHS-compliant   |
| Cover material  | Die-cast aluminum, coated  |

| <b>Feature</b>              | <b>Value</b>                     |
|-----------------------------|----------------------------------|
| Piston seal material        | TPE-U(PU)                        |
| Material of piston          | Wrought aluminum alloy           |
| Piston rod material         | High-alloy stainless steel       |
| Piston rod wiper material   | TPE-U(PU)                        |
| Buffer seal material        | TPE-U(PU)                        |
| Cushion piston material     | POM                              |
| Material of cylinder barrel | Wrought aluminum alloy, anodized |
| Nut material                | High-alloy stainless steel       |
| Material of bearing         | POM                              |
| Flange screws material      | Steel, galvanized                |