

ISO cylinder DSBF-C-50-100-PPSA-N3-R

Part number: 1780287

FESTO



 [General operating condition](#)

Data sheet

| Feature | Value |
|--|--|
| Stroke | 100 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 | Male thread |
| Design | Piston Piston rod Profile barrel |
| Position detection | Via proximity switch |
| 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 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 | 613 g |
| Moving mass for 0 mm stroke | 363 g |
| Additional moving mass per 10 mm stroke | 25 g |
| Product weight | 1821 g |
| Basic weight for 0 mm stroke | 1241 g |
| Additional weight per 10 mm stroke | 58 g |
| Type of mounting | With female thread With accessories |
| Pneumatic connection | G1/4 |
| Note on materials | RoHS compliant |
| Material cover | Coated die-cast aluminium |

| Feature | Value |
|-----------------------------|----------------------------------|
| 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 |