

ISO cylinder DSBF-C-80- -PPSA-N3-R

Part number: 1780945

FESTO



 [General operating condition](#)

Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|--|--|
| Stroke | 1 mm ... 2800 mm |
| Piston diameter | 80 mm |
| Piston rod thread | M20x1.5 |
| 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 |
| Ambient temperature | -20 °C ... 80 °C |
| Impact energy in end positions | 1.8 J |
| Cushioning length | 31 mm |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 2721 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 3016 N |
| Moving mass for 0 mm stroke | 800 g |
| Additional moving mass per 10 mm stroke | 39 g |
| Basic weight for 0 mm stroke | 3131 g |
| Additional weight per 10 mm stroke | 95 g |
| Type of mounting | With female thread With accessories |
| Pneumatic connection | G3/8 |
| Note on materials | RoHS compliant |
| Material cover | Coated die-cast aluminium |
| Material piston seal | TPE-U(PU) |
| Material piston | Wrought aluminium alloy |

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