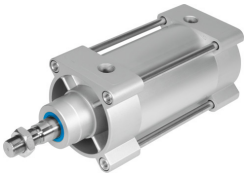
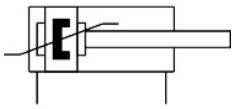
# ISO cylinder
# DSBG-100-50-PPSA-N3

Part number: 1646817





General operating condition

## Data sheet

| Feature | Value |
|---|---|
| Stroke | 50 mm |
| Piston diameter | 100 mm |
| Piston rod thread | M20x1.5 |
| 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>Tie rod<br>Cylinder barrel |
| Position detection | Via proximity switch |
| Symbol | 00992970 |
| Variants | Piston rod at one end |
| 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 | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Ambient temperature | -20 °C ... 80 °C |
| Impact energy in end positions | 2.5 J |
| Cushioning length | 31 mm |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 4418 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 4712 N |
| Moving mass | 1195 g |
| Moving mass for 0 mm stroke | 1000 g |
| Additional moving mass per 10 mm stroke | 39 g |
| Product weight | 4135 g |
| Basic weight for 0 mm stroke | 3665 g |
| Additional weight per 10 mm stroke | 94 g |
| Type of mounting | Either:<br>Via female thread<br>With accessories |
| Pneumatic connection | G1/2 |

| Feature | Value |
|---|---|
| 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 steel |
| Material piston rod wiper | TPE-U(PU) |
| Buffer seal material | TPE-U(PU) |
| Cushioning boss material | POM |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |
| Material nut | Galvanised steel |
| Material bearing | POM |
| Material collar nut | Galvanised steel |
| Material tie rod | High-alloy steel |