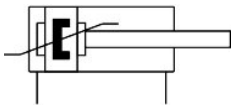
# ISO cylinder
# DSBG-50-500-PPSA-N3

Part number: 1646734





## 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>Tie rod 1<br>Cylinder barrel |
| Position sensing | Via proximity switch |
| Variants | Piston rod at one end |
| Operating pressure | 0.04 MPa...1.2 MPa<br>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) | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/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 | 1615 g |
| Moving mass at 0 mm stroke | 365 g |
| Additional moving mass per 10 mm stroke | 25 g |
| Product weight | 3790 g |
| Basic weight with 0 mm stroke | 1190 g |
| Additional weight per 10 mm stroke | 52 g |
| Type of mounting | Alternatively: |

| Feature | Value |
|---|---|
| | With internal thread<br>With accessories |
| Pneumatic connection | G1/4 |
| Note on materials | RoHS compliant |
| Cover material | Die-cast aluminum, coated |
| Piston seal material | TPE-U(PU) |
| Material of piston | Wrought aluminum alloy |
| Piston rod material | High-alloy 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, smooth-anodized |
| Nut material | Steel, galvanized |
| Material of bearing | POM |
| Collar nut material | Galvanized steel |
| Tie rod material | High-alloy steel |