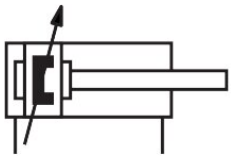
# ISO cylinder
# DSBF-C-50-250-PPVA-N3-R

Part number: 1775266





## Data sheet

| Feature | Value |
|---|---|
| Stroke | 250 mm |
| Piston diameter | 50 mm |
| Piston rod thread | M16x1.5 |
| Cushioning | Pneumatic cushioning, adjustable at both ends |
| Mounting position | Any |
| Conforms to standard | ISO 15552 |
| Piston rod end | External thread |
| Structural design | Piston<br>Piston rod<br>Profile barrel |
| Position sensing | Via proximity switch |
| 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) | 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 | 988 g |
| Moving mass at 0 mm stroke | 363 g |
| Additional moving mass per 10 mm stroke | 25 g |
| Product weight | 2691 g |
| Basic weight with 0 mm stroke | 1241 g |
| Additional weight per 10 mm stroke | 58 g |
| Type of mounting | Alternatively:<br>With internal thread<br>With accessories |

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