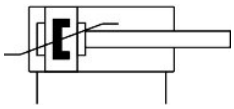
# Standards-based cylinder
# DSBC-125-80-D3-PPSA-N3

Part number: 8165683



## Data sheet

| Feature | Value |
|---|---|
| Stroke | 80 mm |
| Piston diameter | 125 mm |
| Piston rod thread | M27x2 |
| 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>Profile barrel |
| Position sensing | Via proximity switch |
| Variants | Piston rod at one end |
| Operating pressure | 0.02 MPa...1 MPa<br>0.2 bar...10 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 |
| Ambient temperature | -20 °C...80 °C |
| Impact energy in the end positions | 3.3 J |
| Cushioning length | 45 mm |
| Theoretical force at 6 bar, retracting | 6881 N |
| Theoretical force at 6 bar, advancing | 7363 N |
| Moving mass | 2749 g |
| Moving mass at 0 mm stroke | 2245 g |
| Additional moving mass per 10 mm stroke | 63 g |
| Product weight | 8743 g |
| Basic weight with 0 mm stroke | 6768 g |
| Additional weight per 10 mm stroke | 247 g |
| Type of mounting | Alternatively:<br>With internal thread<br>With accessories |

| Feature | Value |
|---|---|
| Pneumatic connection | G1/2 |
| 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 |
| Rod wiper material | TPE-E |
| Material of bearing | Metal polymer compound |
| Flange screws material | Steel, galvanized |