

Flat cylinder DZH-16-50-PPV-A

Part number: 151147

FESTO



[PDF](#) General operating condition

Data sheet

| Feature | Value |
|--|--|
| Stroke | 50 mm |
| Piston diameter | 16 mm Equivalent diameter |
| Piston rod thread | M6 |
| Torsional backlash at piston rod +/- | 3.1 deg |
| Cushioning | Pneumatic cushioning, adjustable at both ends |
| Mounting position | optional |
| Mode of operation | Double-acting |
| Design | Piston Piston rod Profile barrel |
| Position detection | Via proximity switch |
| Symbol | 00991235 |
| Variants | Piston rod at one end |
| Protection against torque/guide | Oval piston |
| Operating pressure | 0.1 MPa ... 1 MPa |
| Operating pressure | 1 bar ... 10 bar |
| 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-B2-L |
| Ambient temperature | -20 °C ... 80 °C |
| Cushioning length | 14 mm |
| Max. torque for protection against torsion | 0.5 Nm |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 104 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 121 N |
| Moving mass | 49 g |
| Product weight | 209 g |
| Additional weight per 10 mm stroke | 12 g |
| Basic weight for 0 mm stroke | 148 g |
| Type of mounting | Via female thread With accessories |
| Pneumatic connection | M5 |
| Note on materials | RoHS-compliant |
| Material cover | Aluminium |

| Feature | Value |
|----------------------|------------------|
| Material seals | TPE-U(PU) |
| Material housing | Aluminium |
| Material piston seal | TPE-U(PU) |
| Material piston rod | High-alloy steel |