

Flat cylinder DZF-12- -P-A-S6

Part number: 164002

FESTO



 [General operating condition](#)

Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|--|--|
| Stroke | 1 mm ... 200 mm |
| Piston diameter | 12 mm Equivalent diameter |
| Piston rod thread | M3 |
| Max. angle of rotation of the piston rod +/- | 2.5 deg |
| Cushioning | Elastic cushioning rings/pads at both ends |
| Mounting position | Any |
| Mode of operation | Double-acting |
| Structural design | Piston Piston rod |
| Position sensing | For proximity sensor |
| Symbol | 00991217 |
| Variants | Heat-resistant seals max. 120°C |
| Protection against torsion/guide | Oval piston |
| Operating pressure | 0.16 MPa ... 1 MPa |
| Operating pressure | 1.6 bar ... 10 bar |
| 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 | 0 °C ... 120 °C |
| Impact energy in the end positions | 0.045 J |
| Max. torque for protection against rotation | 0.1 Nm |
| Theoretical force at 6 bar, retracting | 51 N |
| Theoretical force at 6 bar, advancing | 68 N |
| Moving mass at 0 mm stroke | 12 g |
| Additional moving mass per 10 mm stroke | 2 g |
| Additional weight per 10 mm stroke | 9 g |
| Basic weight with 0 mm stroke | 96 g |
| Type of mounting | With internal thread With accessories |
| Pneumatic connection | M5 |
| Cover material | Wrought aluminum alloy |
| Seals material | FPM |
| Housing material | Wrought aluminum alloy, anodized |

| Feature | Value |
|----------------------|----------------------------|
| Piston seal material | HNBR |
| Piston rod material | High-alloy stainless steel |