

# Flat cylinder DZF-63-80-A-P-A

Part number: 161312

FESTO



 General operating condition

## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 80 mm  |
| Piston diameter  | 63 mm<br>Equivalent diameter   |
| Piston rod thread  | M16x1.5  |
| Torsional backlash at piston rod +/-                         | 0.4 deg  |
| Cushioning   | Elastic cushioning rings/plates at both ends   |
| Mounting position  | Any  |
| Mode of operation  | Double-acting  |
| Design   | Piston<br>Piston rod   |
| Position detection   | Via proximity switch   |
| Symbol   | 00991217   |
| 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-B1/B2-L  |
| Ambient temperature  | -20 °C ... 80 °C   |
| Impact energy in end positions                               | 0.7 J  |
| Max. torque for protection against torsion                   | 1.5 Nm   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 1682 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 1870 N   |
| Moving mass for 0 mm stroke                                  | 337 g  |
| Additional moving mass per 10 mm stroke                      | 25 g   |
| Additional weight per 10 mm stroke                           | 91 g   |
| Basic weight for 0 mm stroke                                 | 1379 g   |
| Type of mounting   | With female thread<br>With accessories   |
| Pneumatic connection   | G1/4   |
| Material cover   | Die-cast aluminium   |
| Material seals   | NBR<br>TPE-U(PU)   |
| Material housing   | Anodised wrought aluminium alloy   |

| Feature              | Value            |
|----------------------|------------------|
| Material piston seal | NBR              |
| Material piston rod  | High-alloy steel |