

# Flat cylinder DZF-40-100-A-P-A

Part number: 161283

FESTO



## Data sheet

| Feature                                      | Value  |
|--|--|
| Stroke                                       | 100 mm   |
| Piston diameter                              | 40 mm<br>Equivalent diameter                                       |
| Piston rod thread                            | M12x1.25   |
| Max. angle of rotation of the piston rod +/- | 0.6 deg  |
| Cushioning                                   | Elastic cushioning rings/pads at both ends                         |
| Mounting position                            | Any  |
| Mode of operation                            | Double-acting  |
| Structural design                            | Piston<br>Piston rod   |
| Position sensing                             | For proximity sensor   |
| Protection against torsion/guide             | Oval piston  |
| Operating pressure                           | 0.1 MPa...1 MPa<br>1 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                          | -20 °C...80 °C   |
| Impact energy in the end positions           | 0.52 J   |
| Max. torque for protection against rotation  | 1 Nm   |
| Theoretical force at 6 bar, retracting       | 633 N  |
| Theoretical force at 6 bar, advancing        | 754 N  |
| Moving mass at 0 mm stroke                   | 120 g  |
| Additional moving mass per 10 mm stroke      | 16 g   |
| Additional weight per 10 mm stroke           | 40 g   |
| Basic weight with 0 mm stroke                | 480 g  |
| Type of mounting                             | With internal thread<br>With accessories<br>Optionally:            |
| Pneumatic connection                         | G1/8   |
| Cover material                               | Die-cast aluminum  |

| Feature              | Value                            |
|----------------------|----------------------------------|
| Seals material       | NBR<br>TPE-U(PU)                 |
| Housing material     | Wrought aluminum alloy, anodized |
| Piston seal material | NBR                              |
| Piston rod material  | High-alloy steel                 |