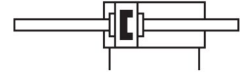


# Flat cylinder DZF-50- -P-A-S2

Part number: 164065

FESTO



 [General operating condition](#)

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature  | Value  |
|--|--|
| Stroke   | 1 mm ... 320 mm  |
| Piston diameter  | 50 mm<br>Equivalent diameter   |
| Piston rod thread  | M10  |
| Torsional backlash at piston rod +/-                         | 0.5 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   | 00991219   |
| Variants   | Through piston rod   |
| 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                               | 0.64 J   |
| Max. torque for protection against torsion                   | 1.2 Nm   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 990 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 990 N  |
| Moving mass for 0 mm stroke                                  | 219 g  |
| Additional moving mass per 10 mm stroke                      | 25 g   |
| Additional weight per 10 mm stroke                           | 64 g   |
| Basic weight for 0 mm stroke                                 | 854 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)   |

| <b>Feature</b>       | <b>Value</b>                     |
|----------------------|----------------------------------|
| Material housing     | Anodised wrought aluminium alloy |
| Material piston seal | NBR                              |
| Material piston rod  | High-alloy steel                 |