

# Flat cylinder DZF-25-100-A-P-A

Part number: 161255

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 100 mm   |
| Piston diameter  | 25 mm<br>Equivalent diameter   |
| Piston rod thread  | M10x1.25   |
| Torsional backlash at piston rod +/-                         | 1 deg  |
| Cushioning   | Elastic cushioning rings/plates at both ends   |
| Mounting position  | optional   |
| Mode of operation  | Double-acting  |
| Design   | Piston<br>Piston rod   |
| Position detection   | Via proximity switch   |
| Protection against torque/guide                              | Oval piston  |
| Operating pressure   | 0.1 MPa...1 MPa<br>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                               | 0.1 J  |
| Max. torque for protection against torsion                   | 0.5 Nm   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 247 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 295 N  |
| Moving mass for 0 mm stroke                                  | 40 g   |
| Additional moving mass per 10 mm stroke                      | 6 g  |
| Additional weight per 10 mm stroke                           | 18 g   |
| Basic weight for 0 mm stroke                                 | 168 g  |
| Type of mounting   | Via female thread<br>With accessories<br>Either:   |
| Pneumatic connection   | M5   |
| Material cover   | Die-cast aluminium   |

| <b>Feature</b>       | <b>Value</b>                     |
|----------------------|----------------------------------|
| Material seals       | HNBR<br>TPE-U(PU)                |
| Material housing     | Anodised wrought aluminium alloy |
| Material piston seal | NBR                              |
| Material piston rod  | High-alloy stainless steel       |