

# Flat cylinder DZF-18- -A-P-A-S6

Part number: 161236

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 1 mm...200 mm  |
| Piston diameter  | 18 mm<br>Equivalent diameter   |
| Piston rod thread  | M8   |
| Torsional backlash at piston rod +/-                         | 1.2 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   |
| Variants   | Heat-resistant seals max. 120°C  |
| 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  | 0 °C...120 °C  |
| Impact energy in end positions                               | 0.05 J   |
| Max. torque for protection against torsion                   | 0.2 Nm   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 123 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 153 N  |
| Moving mass for 0 mm stroke                                  | 24 g   |
| Additional moving mass per 10 mm stroke                      | 4 g  |
| Additional weight per 10 mm stroke                           | 13 g   |
| Basic weight for 0 mm stroke                                 | 107 g  |
| Type of mounting   | Via female thread<br>With accessories<br>Either:   |
| Pneumatic connection   | M5   |

| Feature              | Value                            |
|----------------------|----------------------------------|
| Material cover       | Wrought aluminium alloy          |
| Material seals       | FPM                              |
| Material housing     | Anodised wrought aluminium alloy |
| Material piston seal | HNBR                             |
| Material piston rod  | High-alloy stainless steel       |