

# Flat cylinder DZF-50-10-A-P-A

Part number: 161293

FESTO

Non-rotating, for position sensing, with elastic cushioning rings in end positions. Various mounting options, with or without additional mounting components.



## Data sheet

| Feature  | Value   |
|--|---|
| Stroke   | 10 mm   |
| Piston diameter  | 50 mm<br>Equivalent diameter  |
| Max. angular deflection of piston rod +/-                | 0.5 deg   |
| Cushioning   | P: Flexible cushioning rings/plates at both ends                            |
| Assembly position  | Any   |
| Mode of operation  | double-acting   |
| Design structure   | Piston<br>Piston rod  |
| Position detection                                       | For proximity sensor  |
| Protection against torque/guide                          | Oval piston   |
| Operating pressure MPa                                   | 0.1 ... 1 MPa   |
| Working pressure   | 1 ... 10 bar  |
| Operating medium   | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                    |
| Note on operating and pilot medium                       | Lubricated operation possible (subsequently required for further operation) |
| Corrosion resistance classification CRC                  | 2 - Moderate corrosion stress   |
| PWIS conformity  | VDMA24364-B1/B2-L   |
| Ambient temperature                                      | -20 ... 80 °C   |
| Max. torque for protection against rotation              | 1.2 Nm  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 990 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 1,178 N   |
| Moving mass with 0 mm stroke                             | 219 g   |
| Additional mass factor per 10 mm of stroke               | 25 g  |
| Additional weight per 10 mm stroke                       | 64 g  |
| Basic weight for 0 mm stroke                             | 854 g   |
| Mounting type  | with internal (female) thread<br>with accessories<br>Optional               |
| Pneumatic connection                                     | G1/4  |
| Material cover   | Wrought Aluminum alloy  |
| Material seals   | NBR<br>TPE-U(PU)  |
| Material housing   | Aluminum<br>Smooth anodized   |
| Material piston rod                                      | High alloy steel  |