

# flat cylinder

## DZF-50-320-A-P-A

Part number: 161303

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                                                   | 320 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                                                               |
| Operating 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 Aluminium alloy                                                     |
| Material seals                                           | NBR<br>TPE-U(PU)                                                            |
| Material housing                                         | Aluminium<br>Smooth anodised                                                |
| Material piston rod                                      | High alloy steel                                                            |