

# Flat cylinder DZF-18-100-P-A

Part number: 164020

FESTO



 General operating condition

## Data sheet

| Feature                                      | Value                                                              |
|----------------------------------------------|--------------------------------------------------------------------|
| Stroke                                       | 100 mm                                                             |
| Piston diameter                              | 18 mm<br>Equivalent diameter                                       |
| Piston rod thread                            | M4                                                                 |
| Max. angle of rotation of the piston rod +/- | 1.2 deg                                                            |
| Cushioning                                   | Elastic cushioning rings/pads at both ends                         |
| Mounting position                            | Any                                                                |
| Mode of operation                            | Double-acting                                                      |
| Structural design                            | Piston<br>Piston rod                                               |
| Position sensing                             | For proximity sensor                                               |
| Symbol                                       | 00991217                                                           |
| Variants                                     | Piston rod at one end                                              |
| Protection against torsion/guide             | Oval piston                                                        |
| Operating pressure                           | 0.1 MPa ... 1 MPa                                                  |
| Operating pressure                           | 1 bar ... 10 bar                                                   |
| Operating medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media     | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)             | 2 - Moderate corrosion stress                                      |
| LABS (PWIS) conformity                       | VDMA24364-B1/B2-L                                                  |
| Ambient temperature                          | -20 °C ... 80 °C                                                   |
| Impact energy in the end positions           | 0.1 J                                                              |
| Max. torque for protection against rotation  | 0.2 Nm                                                             |
| Theoretical force at 6 bar, retracting       | 123 N                                                              |
| Theoretical force at 6 bar, advancing        | 153 N                                                              |
| Moving mass at 0 mm stroke                   | 24 g                                                               |
| Additional moving mass per 10 mm stroke      | 4 g                                                                |
| Additional weight per 10 mm stroke           | 13 g                                                               |
| Basic weight with 0 mm stroke                | 107 g                                                              |
| Type of mounting                             | With internal thread<br>With accessories                           |
| Pneumatic connection                         | M5                                                                 |
| Cover material                               | Wrought aluminum alloy                                             |
| Seals material                               | NBR<br>TPE-U(PU)                                                   |
| Housing material                             | Wrought aluminum alloy, anodized                                   |
| Piston seal material                         | NBR                                                                |

| Feature             | Value                      |
|---------------------|----------------------------|
| Piston rod material | High-alloy stainless steel |