

# Linear actuator DFPC-100-125-D

Part number: 8110775

FESTO



 General operating condition

## Data sheet

| Feature                                       | Value  |
|---|--|
| Size of valve actuator                        | 100  |
| Flange hole pattern                           | F07  |
| Stroke  | 125 mm   |
| Piston diameter                               | 100 mm   |
| Standard connection for valve                 | ISO 5210   |
| Cushioning                                    | Elastic cushioning rings/pads at both ends   |
| Mounting position                             | Any  |
| Mode of operation                             | Double-acting  |
| Structural design                             | Piston<br>Piston rod<br>Tie rod 1<br>Cylinder barrel                                 |
| Position sensing                              | Via proximity switch   |
| Symbol  | 00991217   |
| Operating pressure                            | 0.2 MPa ... 0.8 MPa  |
| Operating pressure                            | 2 bar ... 8 bar  |
| Operating pressure                            | 29 psi ... 116 psi   |
| Nominal operating pressure                    | 0.6 MPa  |
| Nominal operating pressure                    | 6 bar  |
| Nominal operating pressure                    | 87 psi   |
| 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)                   |
| Vibration resistance                          | Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance                              | Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27                |
| LABS (PWIS) conformity                        | VDMA24364 Zone III   |
| Ambient temperature                           | -20 °C ... 80 °C   |
| Impact energy in the end positions            | 0.94 J   |
| Theoretical force at 6 bar, retracting        | 4524 N   |
| Theoretical force at 6 bar, advancing         | 4712 N   |
| Air consumption, retracting, per 10 mm stroke | 0.528 l  |
| Air consumption advancing per 10 mm stroke    | 0.55 l   |
| Moving mass at 0 mm stroke                    | 617.1 g  |
| Additional moving mass per 10 mm stroke       | 24.8 g   |
| Product weight                                | 2560 g   |
| Basic weight with 0 mm stroke                 | 1666.6 g   |
| Additional weight per 10 mm stroke            | 71.4 g   |

| <b>Feature</b>              | <b>Value</b>  |
|-----------------------------|---|
| Type of mounting            | on flange according to ISO 5210<br>With spacer bolt |
| Pneumatic connection        | G1/8  |
| Note on materials           | RoHS compliant                                      |
| Cover material              | Gravity die-cast aluminum                           |
| Piston rod material         | high-alloy stainless steel                          |
| Piston rod wiper material   | TPE-U(PU)   |
| Nut material                | high-alloy stainless steel                          |
| Static seal material        | NBR   |
| Tie rod material            | high-alloy stainless steel                          |
| Material of cylinder barrel | Wrought aluminum alloy, smooth-anodized             |