

# Linear actuator DFPC-125-125-D

Part number: 8110774

**FESTO**



## Data sheet

| Feature                                       | Value  |
|---|--|
| Size of valve actuator                        | 125  |
| Flange hole pattern                           | F10  |
| Stroke  | 125 mm   |
| Piston diameter                               | 125 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<br>Cylinder barrel                                   |
| Position sensing                              | For proximity sensor   |
| Operating pressure                            | 0.2 MPa...0.8 MPa<br>2 bar...8 bar<br>29 psi...116 psi                               |
| Nominal operating pressure                    | 0.6 MPa<br>6 bar<br>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            | 1.1 J  |
| Theoretical force at 6 bar, retracting        | 7069 N   |
| Theoretical force at 6 bar, advancing         | 7363 N   |
| Air consumption, retracting, per 10 mm stroke | 0.825 l  |
| Air consumption advancing per 10 mm stroke    | 0.859 l  |
| Moving mass at 0 mm stroke                    | 1059.6 g   |
| Additional moving mass per 10 mm stroke       | 38.9 g   |
| Product weight                                | 4310 g   |

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|------------------------------------|--|
| Basic weight with 0 mm stroke      | 2968.9 g   |
| Additional weight per 10 mm stroke | 107.4 g  |
| Type of mounting                   | On flange as per ISO 5210<br>With spacer bolt<br>Optionally: |
| 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                      |