

Linear drive DFPC-100- -

Part number: 8110785

FESTO



 General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|---|---|
| Size of valve actuator | 100 |
| Flange hole pattern | F07 |
| Stroke | 10 mm ... 1600 mm |
| Piston diameter | 100 mm |
| Fitting connection conforms to standard | ISO 5210 |
| Cushioning | Elastic cushioning rings/plates at both ends |
| Mounting position | optional |
| Mode of operation | Double-acting |
| Design | Piston Piston rod Tie rod Cylinder barrel |
| Position detection | Via proximity switch |
| Symbol | 00991217 |
| Variants | EX protection approval (ATEX) Extended male piston rod thread Custom thread on the piston rod Piston rod with male thread shortened at one end Extended piston rod Spacer bolt on bearing cap side |
| 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 |
| CE mark (see declaration of conformity) | To EU Explosion Protection Directive (ATEX) |
| UKCA marking (see declaration of conformity) | To UK EX instructions |
| Explosion protection certification outside the EU | EPL Db (GB) EPL Gb (GB) |
| Explosion protection | Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX) |
| ATEX category gas | II 2G |
| ATEX category dust | II 2D |
| Explosion ignition protection type for gas | Ex h IIC T4 Gb |

| Feature | Value |
|--|--|
| Explosion ignition protection type for dust | Ex h IIC T120°C Db |
| Explosion ambient temperature | -20 °C ≤ Ta ≤ +80 °C |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) |
| Vibration resistance | Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6 |
| Shock resistance | Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27 |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Ambient temperature | -20 °C ... 80 °C |
| Impact energy in end positions | 0.94 J |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 4524 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 4712 N |
| Air consumption on return stroke per 10 mm | 0.528 l |
| Air consumption on advance stroke per 10 mm | 0.55 l |
| Moving mass for 0 mm stroke | 617.1 g |
| Additional moving mass per 10 mm stroke | 24.8 g |
| Product weight | 1740 g ... 13140 g |
| Basic weight for 0 mm stroke | 1666.6 g |
| Additional weight per 10 mm stroke | 71.4 g |
| Type of mounting | Either: On flange as per ISO 5210 With spacer bolt |
| Pneumatic connection | G1/8 |
| Note on materials | RoHS-compliant |
| Material cover | Gravity die-cast aluminium |
| Material piston rod | High-alloy stainless steel |
| Material piston rod wiper | TPE-U(PU) |
| Material nut | High-alloy stainless steel |
| Material static seals | NBR |
| Material tie rod | High-alloy stainless steel |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |