

Linear actuator DFPC-100- -

Part number: 8110785

FESTO



Data sheet

| Feature | Value |
|---|---|
| Size of valve actuator | 100 |
| Flange hole pattern | F07 |
| Stroke | 10 mm...1600 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 Piston rod Tie rod Cylinder barrel |
| Position sensing | For proximity sensor |
| Variants | EX protection approval (ATEX) Extended external thread piston rod Special thread on piston rod Piston rod with external thread shortened at one end Extended piston rod Spacer bolt on bearing cap end |
| Operating pressure | 0.2 MPa...0.8 MPa 2 bar...8 bar 29 psi...116 psi |
| Nominal operating pressure | 0.6 MPa 6 bar 87 psi |
| CE marking (see declaration of conformity) | as per EU explosion protection directive (ATEX) |
| UKCA marking (see declaration of conformity) | acc. to UK EX instructions |
| Explosion protection certification outside the EU | EPL Db (GB) EPL Gb (GB) |
| Explosion prevention and protection | Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX) |
| ATEX category gas | II 2G |

| Feature | Value |
|---|--|
| ATEX category for dust | II 2D |
| Type of ignition protection for gas | Ex h IIC T4 Gb |
| Type of (ignition) protection for dust | Ex h IIIC T120°C Db |
| Explosive ambient temperature | -20°C ≤ Ta ≤ +80°C |
| 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 | 1740 g...13140 g |
| Basic weight with 0 mm stroke | 1666.6 g |
| Additional weight per 10 mm stroke | 71.4 g |
| Type of mounting | On flange as per ISO 5210 With spacer bolt 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 |