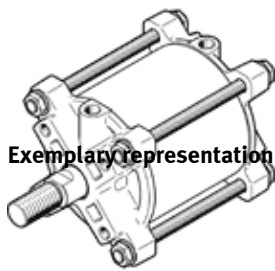


Linear actuator DFPC-100- -

Part number: 8110785

FESTO



Exemplary representation



Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature | Value |
|---|---|
| Size of actuator | 100 |
| Flange hole pattern | F07 |
| Stroke | 10 ... 1,600 mm |
| Piston diameter | 100 mm |
| Fitting connection conforms to standard | ISO 5210 |
| Cushioning | P: Flexible cushioning rings/plates at both ends |
| Assembly position | Any |
| Mode of operation | double-acting |
| Design structure | Piston Piston rod Tie rod Cylinder barrel |
| Position detection | For proximity sensor |
| Variants | EX protection approval (ATEX) Extended male piston rod thread Piston rod with special thread External piston rod thread shortened on one end Extended piston rod Spacer bolt on bearing cap side |
| Operating pressure MPa | 0.06 ... 0.8 MPa |
| Working pressure | 0.6 ... 8 bar |
| Operating pressure | 8.7 ... 116 psi |
| Nominal operating pressure | 0.6 MPa |
| Nominal working pressure | 6 bar |
| Nominal operating pressure (psi) | 87 psi |
| CE symbol (see declaration of conformity) | according to EU-Ex protection guideline (ATEX) |
| UKCA marking (see declaration of conformity) | To UK EX instructions |
| Explosion protection certification outside the EU | EPL Db (GB) EPL Gb (GB) |
| ATEX category Gas | II 2G |
| ATEX category Dust | II 2D |
| Explosion ignition protection type Gas | Ex h IIC T4 Gb |
| Explosion ignition protection type Dust | Ex h IIIC T120°C Db |
| Explosion-proof ambient temperature | -20°C ≤ Ta ≤ +80°C |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (subsequently required for further operation) |
| 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 in accordance with FN 942017-5 and EN 60068-2-27 |
| PWIS conformity | VDMA24364 zone III |
| Ambient temperature | -20 ... 80 °C |
| Impact energy in end positions | 0.94 J |

| Feature | Value |
|--|---|
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 4,524 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance | 4,712 N |
| Air consumption returning per 10 mm stroke | 0.528 l |
| Air consumption advancing per 10 mm stroke | 0.55 l |
| Moving mass with 0 mm stroke | 617.1 g |
| Additional mass factor per 10 mm of stroke | 24.8 g |
| Product weight | 1,740 ... 13,140 g |
| Basic weight for 0 mm stroke | 1,666.6 g |
| Additional weight per 10 mm stroke | 71.4 g |
| Mounting type | On flange as per ISO 5210 With spacer bolt Optional |
| Pneumatic connection | G1/8 |
| Materials note | Conforms to RoHS |
| Material cover | Gravity die-cast aluminium |
| Material piston rod | High alloy steel, non-corrosive |
| Material piston rod wiper seal | TPE-U(PU) |
| Material nut | High alloy steel, non-corrosive |
| Material static seals | NBR |
| Material tie rod | High alloy steel, non-corrosive |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |