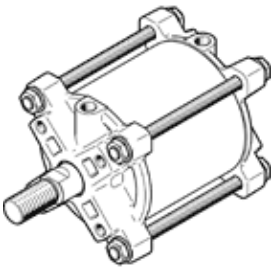
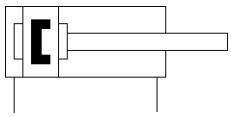
# linear drive
# DFPC-100-80-D

Part number: 8110777

FESTO





## Data sheet

| Feature | Value |
|---|---|
| Size of actuator | 100 |
| Flange hole pattern | F07 |
| Stroke | 80 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<br>Piston rod<br>Tie rod<br>Cylinder barrel |
| Position detection | For proximity sensor |
| Operating pressure MPa | 0.06 ... 0.8 MPa |
| Operating pressure | 0.6 ... 8 bar<br>8.7 ... 116 psi |
| Nominal operating pressure | 0.6 MPa<br>6 bar |
| Nominal operating pressure (psi) | 87 psi |
| 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 |
| 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 | 2,240 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<br>With spacer bolt<br>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 |