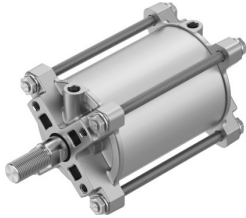


# Linear drive DFPC-80-80-D

Part number: 8110816

FESTO



 General operating condition

## Data sheet

| Feature                                                      | Value                                                                                      |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Size of valve actuator                                       | 80                                                                                         |
| Flange hole pattern                                          | F07                                                                                        |
| Stroke                                                       | 80 mm                                                                                      |
| Piston diameter                                              | 80 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<br>Piston rod<br>Tie rod<br>Cylinder barrel                                         |
| Position detection                                           | Via proximity switch                                                                       |
| Symbol                                                       | 00991217                                                                                   |
| 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                                                                                     |
| 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                               | 1.4 J                                                                                      |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 2827 N                                                                                     |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 3016 N                                                                                     |
| Air consumption on return stroke per 10 mm                   | 0.33 l                                                                                     |
| Air consumption on advance stroke per 10 mm                  | 0.352 l                                                                                    |
| Moving mass for 0 mm stroke                                  | 451 g                                                                                      |
| Additional moving mass per 10 mm stroke                      | 24.8 g                                                                                     |
| Product weight                                               | 1720 g                                                                                     |
| Basic weight for 0 mm stroke                                 | 1230.3 g                                                                                   |

| Feature                            | Value                                                    |
|------------------------------------|----------------------------------------------------------|
| Additional weight per 10 mm stroke | 61.8 g                                                   |
| Type of mounting                   | Either:<br>On flange as per ISO 5210<br>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                  |