# Linear actuators DFPC

# Characteristics

**Function**

The linear actuators DFPC are double-acting pneumatic actuators that are optimised for the requirements of process automation. The product variants with a mounting interface based on ISO 5210 or ISO 15552 and extended tie rods are designed for actuating process valves such as gate valves and knife-gate valves, pinch valves or process valves without housing. The sturdy, corrosion-resistant design is suitable for applications in different segments of process automation, such as water treatment, mining, the paper and pulp industry or the chemical industry. The modular product system with its custom configuration options offers great flexibility.
A number of standard variants can be supplied quickly from stock.

**Innovative**

- Sturdy, corrosion-resistant tie rod design, ideal for use in harsh ambient conditions
- Elastic cushioning rings for reducing the impact forces of the piston hitting the end positions of the actuator

**Flexible**

- Variants can be configured according to individual needs using a modular product system
- Standard variants available quickly from stock
- Additional contactless end-position sensing possible with proximity switches

**Design**

- Sturdy tie rod design
- Double-acting
- Diameter sizes Ø 80 ... Ø 200
- Stroke lengths 10 ... 1600 mm
- Mounting interface based on ISO 5210 or ISO 15552, with extended tie rods
- Operating pressure 0.06 ... 0.8 MPa, 8.7 ... 116 psi, 0.6 ... 8 bar
- Ambient temperature –20 ... +80°C
- ATEX II 2GD

**Ordering data – Product options**

Configurable product
This product and all its product options can be ordered using the configurator.

The configurator can be found under Products on the DVD or at
→ **www.festo.com/catalogue/...**

| Part No. | Type |
|---|---|
| **8110796** | **DFPC-80** |
| **8110785** | **DFPC-100** |
| **8110797** | **DFPC-125** |
| **8133065** | **DFPC-160** |
| **8133072** | **DFPC-200** |

# Type codes

| 001 | Series | |
|---|---|---|
| **DFPC** | Linear drive | |

| 002 | Piston diameter | |
|---|---|---|
| **80** | 80 | |
| **100** | 100 | |
| **125** | 125 | |
| **160** | 160 | |
| **200** | 200 | |

| 003 | Stroke | |
|---|---|---|
| **50** | 50 | |
| **65** | 65 | |
| **80** | 80 | |
| **100** | 100 | |
| **125** | 125 | |
| **150** | 150 | |
| **200** | 200 | |
| **250** | 250 | |
| **300** | 300 | |
| **350** | 350 | |
| **400** | 400 | |
| **...** | 10 ... 1600 | |

| 004 | Function | |
|---|---|---|
| **D** | Double-acting | |

| 005 | Piston rod thread type | |
|---|---|---|
| | Male thread | |

| 006 | Housing surface treatment | |
|---|---|---|
| | None | |

| 007 | EU certification | |
|---|---|---|
| | None | |
| **EX4** | II 2GD | |

| 008 | Piston rod extension | |
|---|---|---|
| | None | |
| **...E** | 1 ... 500 mm | |

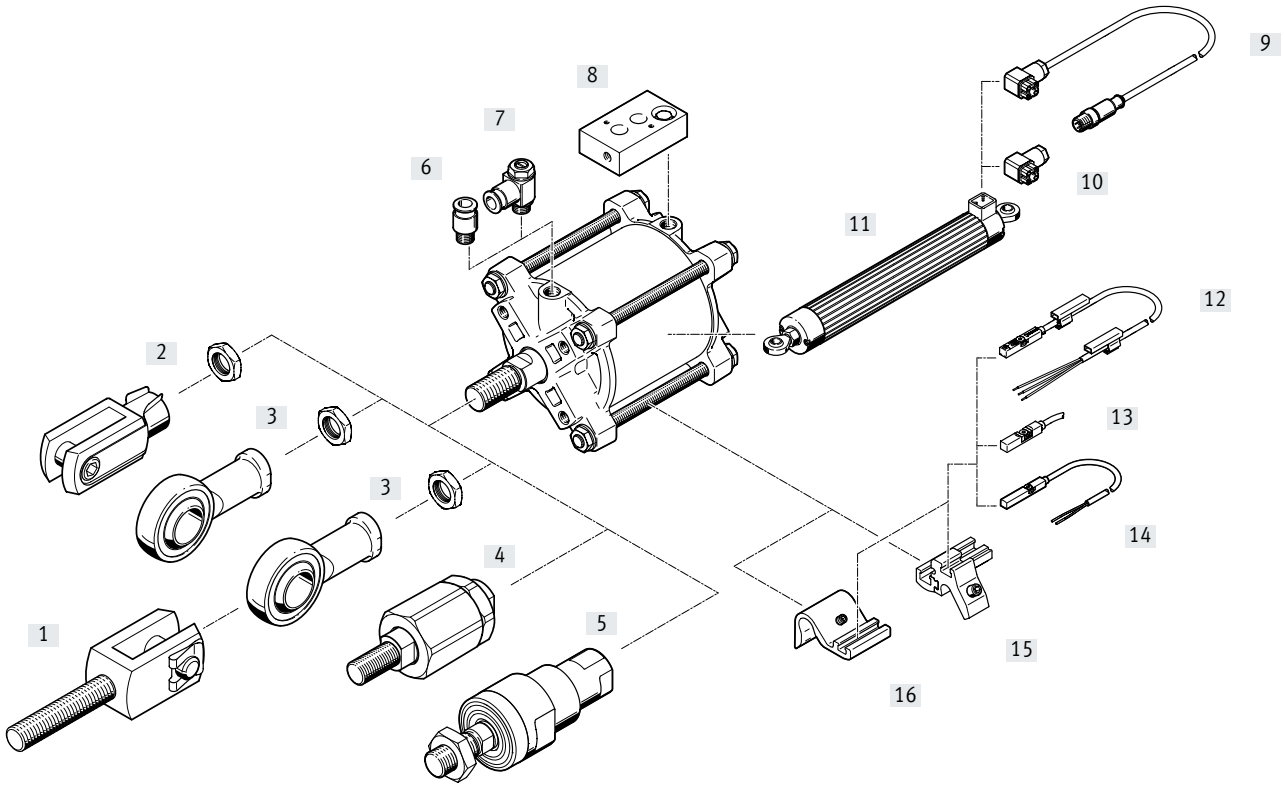
| 009 | Piston rod thread extension | |
|---|---|---|
| | None | |
| **...L** | 0 ... 70 mm | |

| 010 | Piston rod thread shortening | |
|---|---|---|
| **...S** | 1 ... 30 mm | |

| 011 | Piston rod thread | |
|---|---|---|
| | Standard | |
| **M16** | M16 | |
| **M16P** | M16x1.5 | |
| **M20** | M20 | |
| **M20P** | M20x1.5 | |
| **M24** | M24 | |
| **M24P** | M24x2 | |
| **M27** | M27 | |
| **M27P** | M27x2 | |
| **M30** | M30 | |
| **M30P** | M30x2 | |
| **M36** | M36 | |
| **M36P** | M36x2 | |

| 012 | Thread length of spacer bolts on bearing cap | |
|---|---|---|
| | None | |
| **...LB2** | 10 ... 120 mm | |

# Peripherals overview



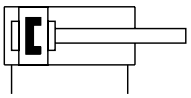

**Mounting attachments and accessories**

| | | Description | → Page/Internet |
|---|---|---|---|
| [1] | Rod clevis<br>SGA | With male thread | 12 |
| [2] | Rod clevis<br>SG/CRSG | Permits a swivelling movement of the cylinder in one plane | 12 |
| [3] | Rod eye<br>SGS/CRSGS | With spherical bearing | 12 |
| [4] | Self-aligning rod coupler<br>FK | To compensate for radial and angular deviations | 12 |
| [5] | Self-aligning rod coupler<br>CRFK | To compensate for radial and angular deviations, corrosion-resistant | 12 |
| [6] | Push-in fitting<br>QS | For connecting compressed air tubing with standard O.D. | qs |
| [7] | One-way flow control valve<br>GRLA, GRLZ | Exhaust air and supply air flow control with one-way function | 13 |
| [8] | Control plate<br>DADG | Control plate for mounting a valve to VDI/VDE 3845 (NAMUR) on the actuators of the DFPC series in sizes G1/8 and G1/4 using a hollow bolt | 13 |
| [9] | Connecting cable<br>NEBC | M12, 5-pin connecting cable between the sensor interface and displacement encoder | 14 |
| [10] | Plug socket<br>SD | For displacement encoder connection | 14 |
| [11] | Displacement encoder<br>MLO-POT | Connecting rod potentiometer1), absolute measurement with high resolution | 12 |
| [12] | Proximity switch<br>CRSMT-8 | Magneto-resistive, corrosion-resistant, to EU Explosion Protection Directive (ATEX) | 13 |
| [13] | Proximity switch<br>SDBT | Magneto-resistive, NAMUR, to EU Explosion Protection Directive (ATEX) | 13 |
| [14] | Proximity switch<br>SMT-8M-A | Magneto-resistive, 5 ... 30 V DC, to EU Explosion Protection Directive (ATEX) | 13 |
| [15] | Mounting kit<br>SMBZ-8- ... | For proximity switch SME/SMT-8M, for piston diameter 100 | 14 |
| [16] | Sensor bracket<br>DASP-F10- ... | For proximity switch SME/SMT-8M, for piston diameter 125 and piston diameter 160 | 14 |

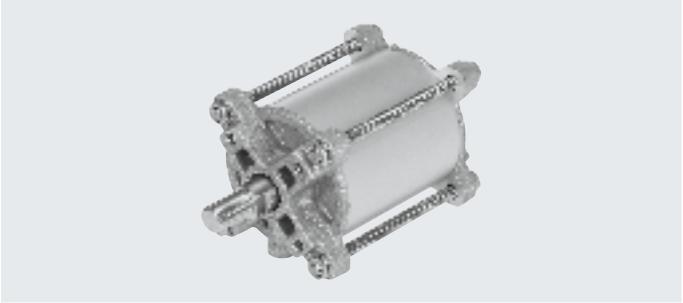
1) The mounting on the linear actuator DFPC must be individually manufactured.

# Technical data

Function



- Piston diameter
  80 ... 200 mm
- Stroke
  10 ... 1600 mm
- Force
  2827 ... 18850 N



| **General technical data** | | | | | |
|---|---|---|---|---|---|
| Size of valve actuator | 80 | 100 | 125 | 160 | 200 |
| Piston diameter | 80 mm | 100 mm | 125 mm | 160 mm | 200 mm |
| Stroke | 10 ... 1600 mm | | | | |
| Design | Piston, piston rod, tie rod, cylinder barrel | | | | |
| Mode of operation | Double-acting | | | | |
| Pneumatic connection | G1/8 | | | G1/4 | |
| Cushioning | Elastic cushioning rings/pads at both ends | | | | |
| Process valve connection to standard | ISO 5210 | | | | |
| Type of mounting1) | Optionally: on flange to ISO 5210, with spacer bolts | | | | |
| Flange hole pattern | F07 | | F10 | | |
| Mounting position | Any | | | | |
| Position sensing | Via proximity switch | | | | |

1) Spacer bolts suitable for DFPC-...-LB2, based on ISO 15552

| **Operating and environmental conditions** | | | | | |
|---|---|---|---|---|---|
| Size of valve actuator | 80 | 100 | 125 | 160 | 200 |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] | | | | |
| Note on the operating/pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) | | | | |
| Operating pressure | 0.06 ... 0.8 MPa | | | | |
| Operating pressure | 8.7 ... 116 psi | | | | |
| Operating pressure | 0.6 ... 8 bar | | | | |
| Nominal operating pressure | 0.6 MPa | | | | |
| Nominal operating pressure | 87 psi | | | | |
| Nominal operating pressure | 6 bar | | | | |
| Ambient temperature | -20 ... +80°C | | | | |
| Shock resistance1) | Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27 | | | | |
| Vibration resistance1) | Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6 | | | | |

1) Effective up to a stroke of 400 mm

# Technical data

| **ATEX**[1] | | | | | |
|---|---|---|---|---|---|
| Size of valve actuator | 80 | 100 | 125 | 160 | 200 |
| ATEX category for gas | II 2G | | | | |
| Type of ignition protection for gas | Ex h IIC T4 Gb | | | | |
| ATEX category for dust | II 2D | | | | |
| Type of ignition protection for dust | Ex h IIIC T120°C Db | | | | |
| Explosion-proof ambient temperature | -20°C <= Ta <= +80°C | | | | |
| CE marking (see declaration of conformity) | To EU Explosion Protection Directive (ATEX) | | | | |

1) Selected types, additional information at www.festo.com/catalogue/...

| **Forces and impact energy** | | | | | |
|---|---|---|---|---|---|
| Size of valve actuator | 80 | 100 | 125 | 160 | 200 |
| Theoretical force at 6 bar, advancing | 3016 N | 4712 N | 7363 N | 12064 N | 18850 N |
| Theoretical force at 6 bar, retracting | 2827 N | 4524 N | 7069 N | 11581 N | 18096 N |
| Impact energy in the end positions | 1.4 J | 0.94 J | 1.1 J | 3.3 J | 4.8 J |

Permissible impact velocity:

$$v = \sqrt{\frac{2 \cdot E}{m_1 + m_2}}$$

Maximum permissible mass:

$$m_2 = \frac{2 \cdot E}{v^2} - m_1$$

| | |
|---|---|
| v | Impact velocity [m/s] |
| E | Kinetic impact energy [Nm] |
| $m_1$ | Moving dead weight [kg] |
| $m_2$ | Moving applied load [kg] |

| **Air consumption1**[1] | | | | | |
|---|---|---|---|---|---|
| Size of valve actuator | 80 | 100 | 125 | 160 | 200 |
| Air consumption, advancing, per 10 mm stroke | 0.352 l | 0.55 l | 0.859 l | 1.407 l | 2.199 l |
| Air consumption, retracting, per 10 mm stroke | 0.33 l | 0.528 l | 0.825 l | 1.351 l | 2.111 l |

1) At 6 bar

| **Weights** | | | | | |
|---|---|---|---|---|---|
| Size of valve actuator | 80 | 100 | 125 | 160 | 200 |
| Basic weight with 0 mm stroke | 1230.3 g | 1666.6 g | 2968.9 g | 5948.7 g | 10258.2 g |
| Additional weight per 10 mm stroke | 61.8 g | 71.4 g | 107.4 g | 148.61 g | 255.79 g |
| Moving mass with 0 mm stroke | 451 g | 617.1 g | 1059.6 g | 2102 g | 3575.4 g |
| Additional moving mass per 10 mm stroke | 24.8 g | | 38.9 g | 64.34 g | 105.31 g |

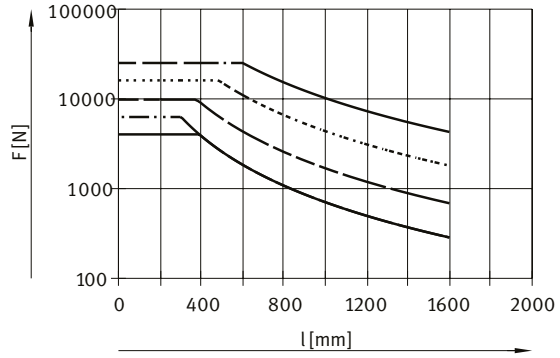
# Technical data

| **Materials** | | | | | |
|---|---|---|---|---|---|
| Size of valve actuator | 80 | 100 | 125 | 160 | 200 |
| Cover material | Gravity die-cast aluminium | | | | |
| Piston rod material | High-alloy stainless steel | | | | |
| Piston rod wiper seal material | TPE-U(PU) | | | | |
| Nut material | High-alloy stainless steel | | | | |
| Static seal material | NBR | | | | |
| Tie rod material | High-alloy stainless steel | | | | |
| Cylinder barrel material | Smooth-anodised wrought aluminium alloy | | | | |
| Note on materials | Contains paint-wetting impairment substances, RoHS-compliant | | | | |

**Permissible axial force without buckling of the piston rod**

The length "l" is made up of:
- The stroke of the actuator
- The extended piston rod
- The extended piston rod thread

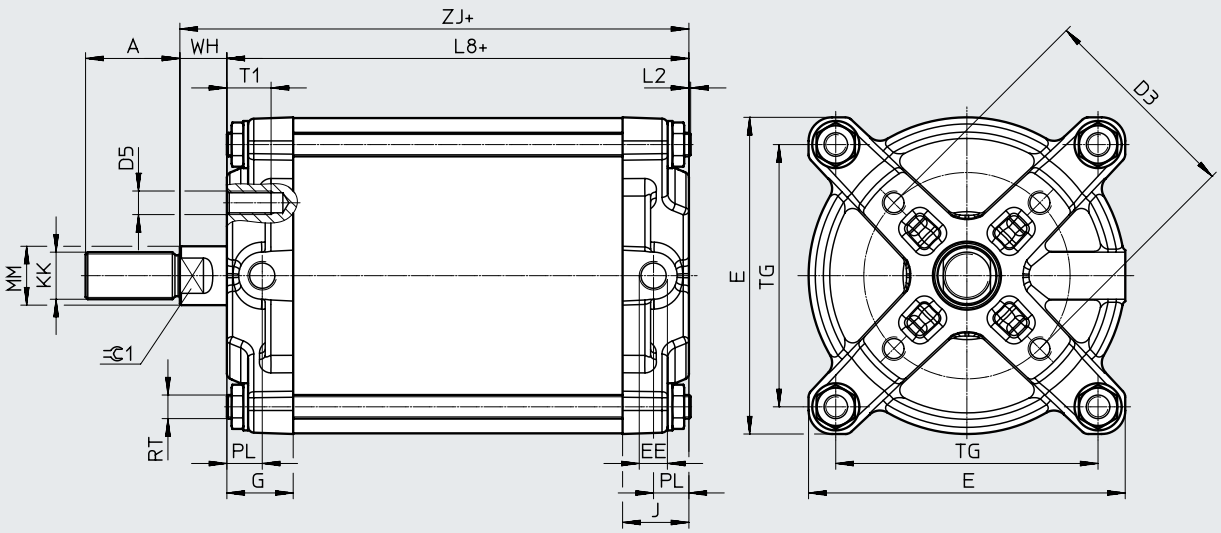
The dimension "WH" and the thread length have already been taken into account.




Diameter 80
Diameter 100
Diameter 125
Diameter 160
Diameter 200

# Technical data

**Dimensions** Download CAD data ➔ www.festo.com




\+ = plus stroke length

| Piston diameter [mm] | A −0.5 | D3 ø | D5 | E | EE | G | J | L2 max. |
|---|---|---|---|---|---|---|---|---|
| DFPC-80-...-D | 32 | 70 | M8 | 90 | G1/8 | 22.7 | 22.7 | 2.4 |
| DFPC-100-...-D | 32 | 70 | M8 | 107.5 | G1/8 | 22.5 | 22.5 | 2.2 |
| DFPC-125-...-D | 40 | 102 | M10 | 136 | G1/8 | 24.5 | 24.5 | 1.6 |
| DFPC-160-...-D | 54 | 102 | M10 | 170 | G1/4 | 25.3 | 25.3 | 0.7 |
| DFPC-200-...-D | 72 | 102 | M10 | 211 | G1/4 | 29.9 | 29.9 | 1 |

| Piston diameter [mm] | L8 | MM ø | PL | RT | T1 | TG | WH | ZJ | ⌀C1 |
|---|---|---|---|---|---|---|---|---|---|
| DFPC-80-...-D | 75.2 | 20 | 15.2 | M8 | 15 | 72 | 16 +0.6/-1.6 | 91.2 | 16 |
| DFPC-100-...-D | 76.8 | 20 | 12 | M8 | 15 | 89 | 16 +0.7/-1.2 | 92.8 | 16 |
| DFPC-125-...-D | 91 | 25 | 14 | M10 | 18 | 110 | 20 +0.9/-1 | 111 | 21 |
| DFPC-160-...-D | 127 | 32 | 14.3 | M12 | 18 | 140 | 24 +1.1/-1.1 | 150.9 | 27 |
| DFPC-200-...-D | 144.2 | 40 | 18.9 | M16 | 20 | 175 | 30 +1.2/-1.2 | 173.8 | 36 |

| Piston diameter [mm] | KK | |
|---|---|---|
| | DFPC-... | -M-...[1] |
| 80 | M16x1.5 | M16/M20[2]/M20x1.5[2] |
| 100 | M16x1.5 | M16/M20[2]/M20x1.5[2] |
| 125 | M20x1.5 | M16/M16x1.5/M20/M24[2]/M24x1.5[2] |
| 160 | M27x2 | M16/M16x1.5/M20/M20x1.5/M24/M24x1.5/M27 |
| 200 | M36x2 | M16/M16x1.5/M20/M20x1.5/M24/M24x1.5/M27/M27x2/M30/M30x2/M36 |

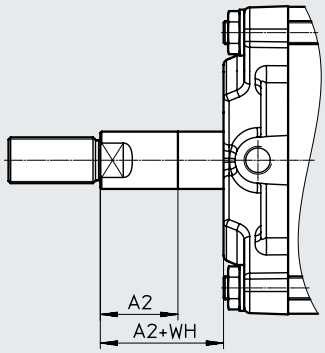
1) Regular threads or threads with smaller nominal diameter than in the basic version cannot withstand such high loads. This requires modifying the screw connection.

2) Additional lock nut for piston rod attachments (see page ➔ 12) required for mounting.

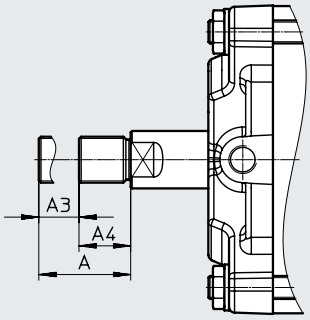
# Technical data

**Dimensions – Variants** Download CAD data ➔ www.festo.com

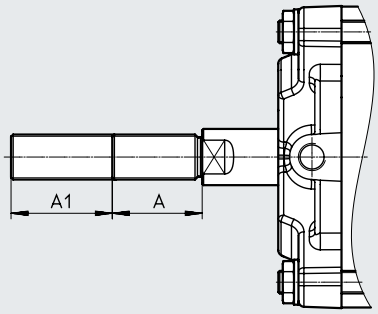
[E] Extended piston rod



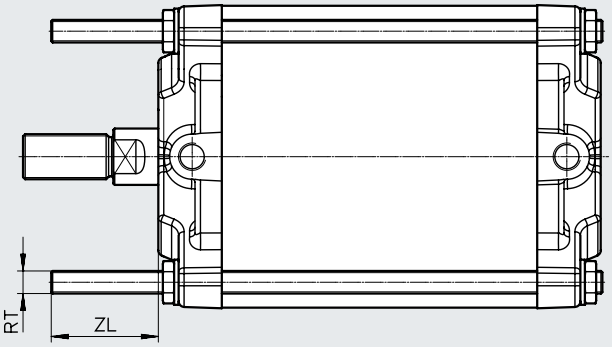

[S] Shortened piston rod thread




[L] Extended piston rod thread



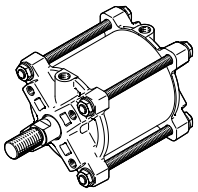

[LB2] Spacer bolts on the bearing cap




| Piston diameter [mm] | A -0.5 | A1 | | A2 | | A3 | | A4 | RT | WH | ZL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | min. | max. | min. | max. | min. | max. | | | | min. ±0.5 | max. ±0.5 |
| DFPC-80-...-D | 32 | 1 | 70 | 1 | 500 | 1 | 22 | A – A3 | M8 | 16 +0.6/-1.6 | 10 | 120 |
| DFPC-100-...-D | 32 | 1 | 70 | 1 | 500 | 1 | 22 | A – A3 | M8 | 16 +0.7/-1.2 | 10 | 120 |
| DFPC-125-...-D | 40 | 1 | 70 | 1 | 500 | 1 | 30 | A – A3 | M10 | 20 +0.9/-1 | 10 | 120 |
| DFPC-160-...-D | 54 | 1 | 70 | 1 | 500 | 1 | 44 | A – A3 | M12 | 24 +1.1/-1.1 | 10 | 120 |
| DFPC-200-...-D | 72 | 1 | 70 | 1 | 500 | 1 | 62 | A – A3 | M16 | 30 +1.2/-1.2 | 10 | 120 |

# Technical data

**Ordering data**

| | | Piston diameter [mm] | Stroke [mm] | Weight [g] | Part No. | Type |
|---|---|---|---|---|---|---|
|  | Double-acting linear actuator with cushioning at both ends | 80 | 50 | 1540 | **8110815** | **DFPC-80-50-D** |
| | | | 65 | 1720 | **8110817** | **DFPC-80-65-D** |
| | | | 80 | 1630 | **8110816** | **DFPC-80-80-D** |
| | | 100 | 80 | 2240 | **8110777** | **DFPC-100-80-D** |
| | | | 100 | 2380 | **8110776** | **DFPC-100-100-D** |
| | | | 125 | 2560 | **8110775** | **DFPC-100-125-D** |
| | | 125 | 100 | 4040 | **8110773** | **DFPC-125-100-D** |
| | | | 125 | 4310 | **8110774** | **DFPC-125-125-D** |
| | | | 150 | 4580 | **8110772** | **DFPC-125-150-D** |
| | | 160 | 150 | 8180 | **8133079** | **DFPC-160-150-D** |
| | | | 200 | 8920 | **8133080** | **DFPC-160-200-D** |
| | | | 250 | 9660 | **8133081** | **DFPC-160-250-D** |
| | | | 300 | 10410 | **8133082** | **DFPC-160-300-D** |
| | | 200 | 300 | 17930 | **8133104** | **DFPC-200-300-D** |
| | | | 350 | 19210 | **8133105** | **DFPC-200-350-D** |
| | | | 400 | 20490 | **8133106** | **DFPC-200-400-D** |

**Note**

For other stroke variants in the modular product system, see page ➔ 11

# Ordering data – Modular product system

**Ordering table**

| Piston diameter | | 80 | 100 | 125 | 160 | 200 | Conditions | Code | Enter code |
|---|---|---|---|---|---|---|---|---|---|
| Module no. | | 8110796 | 8110785 | 8110797 | 8133065 | 8133072 | | | |
| Product type | | DFPC | | | | | | **DFPC** | DFPC |
| Piston diameter | [mm] | 80 | – | | | | | **–80** | |
| | | – | 100 | – | | | | **–100** | |
| | | – | | 125 | – | | | **–125** | |
| | | – | | | 160 | – | | **–160** | |
| | | – | | | | 200 | | **–200** | |
| Stroke | [mm] | 10 ... 1600 | | | | | | | |
| Function | | Double-acting | | | | | | **–D** | |
| Piston rod thread type | | Male thread | | | | | | | |
| Housing surface treatment | | None | | | | | | | |
| EU certification | | None | | | | | | | |
| | | II 2GD | | | | | | **–EX4** | |
| Extended piston rod | [mm] | None | | | | | | | |
| | | 1 ... 500 | | | | | [4] | **–...E** | |
| Extended piston rod thread | [mm] | None | | | | | | | |
| | | 1 ... 70 | | | | | [1] | **–...L** | |
| Shortened piston rod thread | [mm] | None | | | | | | | |
| | | 1 ... 22 | 1 ... 22 | 1 ... 30 | 1 ... 44 | 1 ... 62 | [2] | **...S** | |
| Piston rod thread | | Standard (➔ 8) | | | | | | | |
| | | M16 | | | | | | **–M16** | |
| | | – | | M16x1.5 | | | | **–M16P** | |
| | | M20 | | | | | | **–M20** | |
| | | M20x1.5 | | – | M20x1.5 | | | **–M20P** | |
| | | – | | M24 | | | [3] | **–M24** | |
| | | – | | M24x1.5 | | | [3] | **–M24P** | |
| | | – | | | M27 | | | **–M27** | |
| | | – | | | | M27x2 | | **–M27P** | |
| | | – | | | M30 | | | **–M30** | |
| | | – | | | M30x2 | | | **–M30P** | |
| | | – | | | | M36 | | **–M36** | |
| | | – | | | | | | **–M36P** | |
| Thread length of spacer bolts on the bearing cap | [mm] | Without spacer bolts | | | | | | | |
| | | 10 ... 120 | | | | | | **...LB2** | |

1) ...L Not in combination with shortened piston rod thread (...S)
2) ...S Not in combination with extended piston rod thread (-...L)
3) M24, M24P Not in combination with piston diameter 80 and 100
4) ...E Upper limit for selected stroke and extended piston rod is < 1600 mm

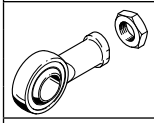
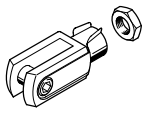
**Note**

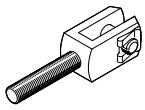
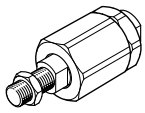
For other fixed-stroke variants,
see page ➔ 10

# Accessories

**Ordering data – Piston rod attachments**

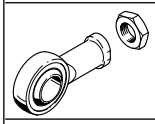
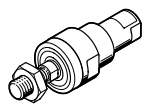
Datasheets → Internet: piston rod attachment

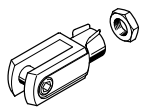
| Designation | For diam. | Part No. | Type |
|---|---|---|---|
| Rod eye SGS | | | |
|  | 80, 100 | **9263** | **SGS-M16x1.5** |
| | 125 | **9264** | **SGS-M20x1.5** |
| | 160, 200 | **10775** | **SGS-M36X2** |
| Rod clevis SG1[1] | | | |
|  | 80, 100 | **6146** | **SG-M16x1.5** |
| | 125 | **6147** | **SG-M20x1.5** |
| | 160, 200 | **9581** | **SG-M36X2** |

| Designation | For diam. | Part No. | Type |
|---|---|---|---|
| Rod clevis SGA1[1] | | | |
|  | 80, 100 | **10768** | **SGA-M16x1.5** |
| | 125 | **10769** | **SGA-M20x1.5** |
| | 160, 200 | **10771** | **SGA-M36X2** |
| Self-aligning rod coupler FK1[1] | | | |
|  | 80, 100 | **6142** | **FK-M16x1.5** |
| | 125 | **6143** | **FK-M20x1.5** |
| | 160, 200 | **10746** | **FK-M36X2** |

**Ordering data – Piston rod attachments, corrosion-resistant**

Datasheets → Internet: piston rod attachment

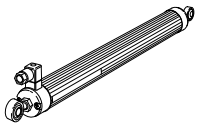
| Designation | For diam. | Part No. | Type |
|---|---|---|---|
| Rod eye CRSGS | | | |
|  | 80, 100 | **195584** | **CRSGS-M16x1.5** |
| | 125 | **195585** | **CRSGS-M20x1.5** |
| | 160 | **195586** | **CRSGS-M27X2** |
| Self-aligning rod coupler CRFK | | | |
|  | 80, 100 | **2490673** | **CRFK-M16x1.5** |
| | 125 | **2545677** | **CRFK-M20x1.5** |

| Designation | For diam. | Part No. | Type |
|---|---|---|---|
| Rod clevis CRSG1[1] | | | |
|  | 80, 100 | **13571** | **CRSG-M16x1.5** |
| | 125 | **13572** | **CRSG-M20x1.5** |
| | 160 | **185361** | **CRSG-M27X2** |

1) Suitable for ATEX

**Ordering data – Displacement encoder**

Datasheets → Internet: mlo-pot

| | | Stroke [mm] | Part No. | Type |
|---|---|---|---|---|
|  | Connecting rod potentiometer | 100 | **192213** | **MLO-POT-100-LWG** |
| | | 150 | **192214** | **MLO-POT-150-LWG** |
| | | 225 | **152645** | **MLO-POT-225-LWG** |
| | | 300 | **152646** | **MLO-POT-300-LWG** |
| | | 360 | **152647** | **MLO-POT-360-LWG** |
| | | 450 | **152648** | **MLO-POT-450-LWG** |
| | | 600 | **152650** | **MLO-POT-600-LWG** |
| | | 750 | **152651** | **MLO-POT-750-LWG** |

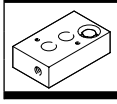
# Accessories

**Ordering data – One-way flow control valves**

| | Connection | | Part No. | Type |
|---|---|---|---|---|
| | Thread | For tubing O.D. | | |
| Exhaust air flow control valve with slotted head screw | | | | |
|  | G1/8 | 4 | **193143** | **GRLA-1/8-QS-4-D** |
| | | 6 | **193144** | **GRLA-1/8-QS-6-D** |
| | | 8 | **193145** | **GRLA-1/8-QS-8-D** |
| Exhaust air flow control valve with knurled screw | | | | |
|  | G1/8 | 8 | **534337** | **GRLA-1/8-QS-8-RS-D** |
| Supply air flow control valve with slotted head screw | | | | |
|  | G1/8 | 8 | **193159** | **GRLZ-1/8-QS-8-D** |

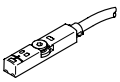
**Ordering data – Control plate, NAMUR**

Datasheets → Internet: dadg

| | Description | Pneumatic connection | Part No. | Type |
|---|---|---|---|---|
|  | For mounting a valve to VDI/VDE 3845 (NAMUR) using a hollow bolt | G1/8 | **8131546** | **DADG-FM-VDE1G18** |
| | | G1/4 | **8131548** | **DADG-FM-VDE1G14** |

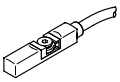
**Ordering data – Proximity switch for T-slot, magneto-resistive**

Datasheets → Internet: smt-8

| | Switching output | Electrical connection | | Cable length [m] | Part No. | Type |
|---|---|---|---|---|---|---|
| | | Cable | Plug M8x1 | | | |
| **N/O contact** | | | | | | |
|  | Contactless | 2-wire | – | 5 | **574341** | **SMT-8M-A-ZS-24V-E-5.0-OE-EX2** |
| | PNP | – | 3-pin | 0.3 | **574342** | **SMT-8M-A-PS-24V-E-0.3-M8D-EX2** |

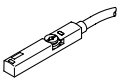
**Ordering data – Proximity switch for T-slot, corrosion-resistant**

Datasheets → Internet: crsmt

| | Switching output | Electrical connection | Cable length [m] | Part No. | Type |
|---|---|---|---|---|---|
| **N/O contact** | | | | | |
|  | PNP | Cable, 3-wire | 5 | **574380** | **CRSMT-8M-PS-24V-K-5.0-OE** |

**Ordering data – Proximity switch for T-slot, NAMUR**

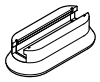
Datasheets → Internet: sdbt

| | Switching output | Electrical connection | Cable length [m] | Part No. | Type |
|---|---|---|---|---|---|
| **N/O contact** | | | | | |
|  | NAMUR | Cable, 2-wire | 5 | **579071** | **SDBT-MS-20NL-ZN-E-5-LE-EX6** |
| | | | 10 | **579072** | **SDBT-MS-20NL-ZN-E-10-LE-EX6** |

# Accessories

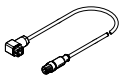
**Ordering data – Mounting kits for proximity switches**

Datasheets → Internet: crsmb, smbz, dasp

| | For piston diameter | Materials | Part No. | Type |
|---|---|---|---|---|
|  | 80, 100, 125 | Housing: polyurethane<br>Rail: hard-anodised aluminium<br>Free of copper and PTFE | **525565** | **CRSMB-8-32/100** |
|  | 80, 100 | Rail: anodised wrought aluminium alloy<br>Screws: high-alloy stainless steel<br>Free of copper and PTFE | **537806** | **SMBZ-8-32/100** |
|  | 125 | Housing: anodised wrought aluminium alloy<br>Screws: high-alloy stainless steel | **8127664** | **DASP-F10-125-A** |
|  | 160 | Housing: anodised wrought aluminium alloy<br>Screws: high-alloy stainless steel | **8144200** | **DASP-F10-160-A** |
|  | 200 | Housing: anodised wrought aluminium alloy<br>Screws: high-alloy stainless steel | **1553813** | **DASP-M4-160-A** |

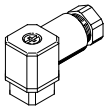
**Ordering data – Connecting cables**

Datasheets → Internet: nebc

| | Description | Part No. | Type |
|---|---|---|---|
|  | Between sensor interface and displacement encoder | **549293** | **NEBC-P1W4-K-0.3-N-M12G5** |

**Ordering data – Plug sockets**

Datasheets → Internet: sd

| | Description | Part No. | Type |
|---|---|---|---|
|  | For displacement encoder connection | **194332** | **SD-4-WD-7** |