

linear drive

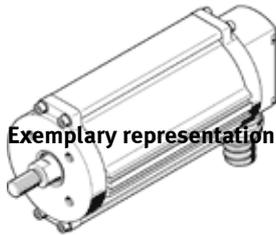
DFPI-100- -ND2P-E-P-G2

Part number: 1808236
Product to be discontinued

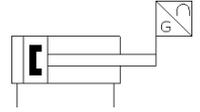
FESTO

with integrated potentiometric displacement encoder, double-acting, piston diameter 100 mm, mounting interfaces for process valve fittings to DIN EN ISO 5210 on bearing cap, electric/pneumatic connection via metallic female socket and connecting cable NHSB (accessories).

Type to be discontinued. Available until 2024. See Support Portal for alternative products.



Exemplary representation



Data sheet

Feature	Value
Size of actuator	100
Flange hole pattern	F07
Stroke	40 ... 990 mm
Stroke reserve	3 mm
Piston diameter	100 mm
Fitting connection conforms to standard	ISO 5210
Cushioning	No cushioning
Assembly position	Any
Mode of operation	double-acting
Design structure	Piston Piston rod Profile barrel
Position detection	With integrated displacement encoder
Measuring method: displacement encoder	Potentiometer
Operating pressure MPa	0.3 ... 0.8 MPa
Operating pressure	3 ... 8 bar 43.5 ... 116 psi
Nominal operating pressure	0.6 MPa 6 bar
Operating voltage range DC	0 ... 15 V
KC mark	KC-EMV
CE mark (see declaration of conformity)	to EU directive explosion protection (ATEX)
UKCA marking (see declaration of conformity)	To UK EX instructions
ATEX category Gas	II 2G
ATEX category Dust	II 2D
Explosion ignition protection type Gas	Ex h IIC T4 Gb X
Explosion ignition protection type Dust	Ex h IIIC T120°C Db X
Explosion-proof ambient temperature	-20°C ≤ Ta ≤ +60°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)
Continuous shock resistance per DIN/IEC 68, parts 2 - 82	Tested in accordance with severity level 2
Storage temperature	-20 ... 60 °C
Relative air humidity	5 - 100 % Condensing
Protection class	IP65 IP67 IP69K NEMA 4
Vibration resistance per DIN/IEC 68, parts 2 - 6	Tested in accordance with severity level 2

Feature	Value
Ambient temperature	-20 ... 60 °C
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	4,417 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	4,712 N
Air consumption returning per 10 mm stroke	0.5153 l
Air consumption advancing per 10 mm stroke	0.5498 l
Moving mass with 0 mm stroke	1,228 g
Additional mass factor per 10 mm of stroke	27 g
Basic weight for 0 mm stroke	3,476 g
Additional weight per 10 mm stroke	80 g
Additional weight of displacement encoder per 10 mm	2 g
Hysteresis	0.33 mm
Independent linearity	0,04 %
Repetition accuracy in ± mm	0.12 mm
Electrical connection	3-pin Straight plug / screw terminal With specific accessories
Pneumatic connection	For tubing outside diameter 8 mm With specific accessories
Materials note	Contains PWIS substances Conforms to RoHS
Material of end caps	Anodised wrought aluminium alloy
Material underneath cover	Anodised wrought aluminium alloy
Material piston rod	High alloy steel, non-corrosive
Material piston rod wiper seal	TPE-U(PU)
Material screws	High alloy steel, non-corrosive
Material static seals	NBR
Material cylinder barrel	Smooth-anodised wrought aluminium alloy