

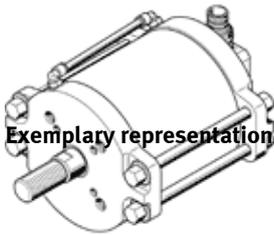
# Linear actuator DFPI-200- -ND2P-E-P-G2

Part number: 1808245  
Product to be discontinued

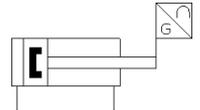
FESTO

with integrated potentiometric distance measuring system, double-acting, piston diameter 200 mm, fastening interfaces for fittings according to DIN EN ISO 5210 on bearing cap, electric/pneumatic connection via metallic flange-type 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	200
Flange hole pattern	F10 F14
Stroke	40 ... 990 mm
Stroke reserve	4 mm
Piston diameter	200 mm
Fitting connection conforms to standard	ISO 5210
Cushioning	No cushioning
Assembly position	Any
Mode of operation	double-acting
Design structure	Piston Piston rod Tie rod Cylinder barrel
Position detection	With integrated displacement encoder
Measuring method: displacement encoder	Potentiometer
Operating pressure MPa	0.3 ... 0.8 MPa
Working pressure	3 ... 8 bar
Operating pressure	43.5 ... 116 psi
Nominal operating pressure	0.6 MPa
Nominal working pressure	6 bar
Operating voltage range DC	0 ... 15 V
KC mark	KC-EMV
CE symbol (see declaration of conformity)	according to EU-Ex protection guideline (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

<b>Feature</b>	<b>Value</b>
	IP69K NEMA 4
Vibration resistance per DIN/IEC 68, parts 2 - 6	Tested in accordance with severity level 2
Ambient temperature	-20 ... 60 °C
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	18,080 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	18,850 N
Air consumption returning per 10 mm stroke	2.111 l
Air consumption advancing per 10 mm stroke	2.119 l
Moving mass with 0 mm stroke	4,722 g
Additional mass factor per 10 mm of stroke	87 g
Basic weight for 0 mm stroke	13,946 g
Additional weight per 10 mm stroke	187 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	Coated die-cast aluminium Anodised wrought aluminium alloy
Material underneath cover	Coated die-cast aluminium Anodised wrought aluminium alloy
Material piston rod	High alloy steel, non-corrosive
Material piston rod wiper seal	NBR
Material screws	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