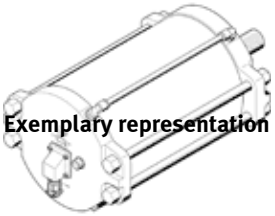
Linear actuator
DFPI-200- -ND2P-C1V-A

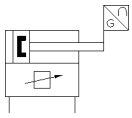
Part number: 1548030
Product to be discontinued

with integrated electropneuamatic positioner, double-acting, piston diameter 200 mm, fastening interfaces for fittings according to DIN EN ISO 5210 on bearing cap, electric/pneumatic connection via plastic flange-type socket, 4-line, 24 VDC power supply, setpoint input 4...20 mA, position feedback signal 4...20 mA, advancing piston rod safety position.

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
Polarity protected	for operating voltage for set point value Initialization connection
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
Analog output	4 - 20 mA
Operating voltage range DC	21.6 ... 26.4 V
Max. current consumption	220 mA
Nominal operating voltage DC	24 V
Setpoint input	4 ... 20 mA
Authorization	RCM Mark
KC mark	KC-EMV
CE symbol (see declaration of conformity)	according to EU-EMV guideline according to EU-Ex protection guideline (ATEX) in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK EX instructions To UK RoHS instructions
Explosion protection certification outside the EU	EPL Dc (GB)

Feature	Value
	EPL Gc (GB)
ATEX category Gas	II 3G
ATEX category Dust	II 3D
Explosion ignition protection type Gas	Ex ec IIC T4 X Gc
Explosion ignition protection type Dust	Ex tc IIIC T120°C X Dc
Explosion-proof ambient temperature	-5°C <= Ta <= +50°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	-5 ... 50 °C
Medium temperature	-5 ... 40 °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
Ambient temperature	-5 ... 50 °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	18,358 g
Additional weight per 10 mm stroke	187 g
Additional weight of displacement encoder per 10 mm	2 g
Accuracy of analogue output	1 %FS
Size of the dead zone	1 %FS
Hysteresis FS	1 %FS
Positioning accuracy	1.0% FS
Repetition accuracy in ± %FS	1 %FS
Electrical connection	5-pin Straight plug / screw terminal
Pneumatic connection	G1/4
Materials note	Contains PWIS substances Conforms to RoHS
Material of end caps	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