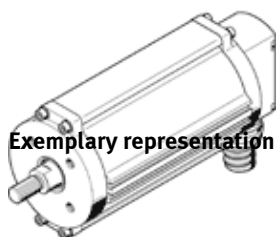


# Linear actuator DFPI-100- -ND2P-E-P

Part number: 562478

FESTO

With integrated displacement encoder.



## Data sheet

Feature	Value
Size of actuator	100
Flange hole pattern	F07
Stroke	40 ... 990 mm
Stroke reserve	3 mm
Piston diameter	100 mm
Based on the standard	DIN 3358
Cushioning	No cushioning
Assembly position	Any
Mode of operation	double-acting
Design structure	Piston rod Cylinder barrel
Outdoor use	C1 - weather protected locations of use
Position detection	For proximity sensor With integrated displacement encoder
Measuring method: displacement encoder	Potentiometer
Working pressure	3 ... 8 bar
Nominal working pressure	6 bar
Max. speed, advancing	0.074 m/s
Max. speed, retracting	0.071 m/s
Max. operating voltage, DC	15 V
ATEX category Gas	II 2G
Explosion ignition protection type Gas	c T4 X
ATEX category Dust	II 2D
Explosion ignition protection type Dust	c T120°C 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)
CE symbol (see declaration of conformity)	according to EU-EMV guideline according to EU-Ex protection guideline (ATEX)
Continuous shock resistance per DIN/IEC 68, parts 2 - 82	Tested in accordance with severity level 2
Corrosion resistance classification CRC	3
Relative air humidity	5 - 95 % Condensing
Protection class	IP65 IP67 IP69K NEMA 4 in assembled condition to IEC 60529
Vibration resistance per DIN/IEC 68, parts 2 - 6	Tested in accordance with severity level 2
Ambient temperature	-20 ... 60 °C
Theoretical force at 6 bar, return stroke	4,417 N
Theoretical force at 6 bar, advance stroke	4,712 N

Feature	Value
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 weight per 10 mm stroke	80 g
Additional weight of displacement encoder per 10 mm	2 g
Basic weight for 0 mm stroke	3,476 g
Additional mass factor per 10 mm of stroke	27 g
Size of the dead zone	0 ... 10 %
Max. line length	30 m
Electrical connection	3-pin Straight plug / screw terminal
Mounting type	On flange to DIN 3358
Pneumatic connection	Standard O.D. tubing for tubing, 8mm outside diameter
Materials note	Contains PWIS substances Conforms to RoHS
Materials information for cover	Wrought Aluminum alloy Anodized
Material information, lower seal	Wrought Aluminum alloy Anodized
Materials information for seals	NBR TPE-U(PU)
Materials information for piston rod	High alloy steel, non-corrosive
Screw material data	High alloy steel, non-corrosive
Materials information for cylinder barrel	Wrought Aluminum alloy Anodized