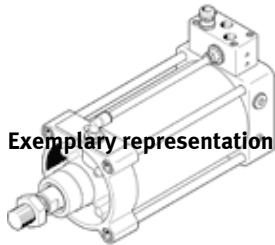


Linear actuator DFPI-125- -

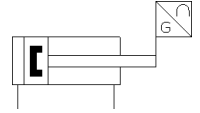
Part number: 5087658

FESTO

with integrated potentiometric distance measuring system, double-acting, piston diameter 125 mm, fastening interfaces according to ISO 15552 on bearing and end caps.



Exemplary representation



Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Size of actuator	125
Stroke	40 ... 990 mm
Piston diameter	125 mm
Based on the standard	ISO 15552
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	Yes
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	9 ... 30 V
Recommended wiper current	< 0.1 μ A
Max. intermittent wiper current	10 mA
Power supply	2-wire
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
ATEX category Gas	II 2G
ATEX category Dust	II 2D
Explosion ignition protection type Gas	Ex h IIC T4 Gb
Explosion ignition protection type Dust	Ex h IIIC T120°C Db
Explosion-proof ambient temperature	-20°C \leq Ta \leq +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

Feature	Value
PWIS conformity	VDMA24364 zone III
Storage temperature	-20 ... 80 °C
Relative air humidity	5 - 100 % Condensing non-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	-20 ... 80 °C
Impact energy in end positions	1 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	6,881 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	7,363 N
Air consumption returning per 10 mm stroke	0.803 l
Air consumption advancing per 10 mm stroke	0.859 l
Moving mass with 0 mm stroke	1,900 g
Additional mass factor per 10 mm of stroke	53 g
Basic weight for 0 mm stroke	7,500 g
Additional weight per 10 mm stroke	134 g
Hysteresis	0.4 mm
Independent linearity	±0,05 %
Repetition accuracy in ± %FS	1 %FS
Repetition accuracy in ± mm	0.7 mm
Electrical connection	2-pin 3-pin 4-pin 5-pin A-coded Cable fitting, M16x1.5 M12x1 Straight plug / screw terminal Plug straight With specific accessories
Pneumatic connection	G3/8 G1/2 For tubing outside diameter 8 mm With specific accessories
Materials note	Conforms to RoHS
Material of end caps	Coated wrought aluminium alloy
Material underneath cover	Coated die-cast aluminium
Material electrical connection	Nickel-plated brass High alloy steel, non-corrosive
Material piston rod	High alloy steel, non-corrosive
Material piston rod wiper seal	TPE-U(PU)
Pipe material	High alloy steel, non-corrosive
Material tubing	PE
Material screws	Coated steel High alloy steel, non-corrosive
Material static seals	NBR
Material fitting	Nickel-plated brass High alloy steel, non-corrosive
Material tie rod	High alloy steel, non-corrosive
Material cylinder barrel	Smooth-anodised wrought aluminium alloy