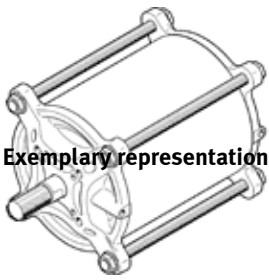


Linear actuator DFPC-320- -

Part number: 8141421

FESTO



Exemplary representation



Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Size of actuator	320
Flange hole pattern	F10 F14
Stroke	10 ... 1,600 mm
Piston diameter	320 mm
Fitting connection conforms to standard	ISO 5210
Cushioning	P: Flexible cushioning rings/plates at both ends
Assembly position	Any
Mode of operation	double-acting
Design structure	Piston Piston rod Tie rod Cylinder barrel
Position detection	For proximity sensor
Variants	EX protection approval (ATEX) Extended male piston rod thread Piston rod with special thread External piston rod thread shortened on one end Extended piston rod Spacer bolt on bearing cap side
Operating pressure MPa	0.06 ... 0.8 MPa
Working pressure	0.6 ... 8 bar
Operating pressure	8.7 ... 116 psi
Nominal operating pressure	0.6 MPa
Nominal working pressure	6 bar
CE symbol (see declaration of conformity)	according to EU-Ex protection guideline (ATEX)
UKCA marking (see declaration of conformity)	To UK EX instructions
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
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 ≤ Ta ≤ +80°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)
Vibration resistance	Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 in accordance with FN 942017-5 and EN 60068-2-27
PWIS conformity	VDMA24364 zone III
Ambient temperature	-20 ... 80 °C
Impact energy in end positions	12.6 J

Feature	Value
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	47,077 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	48,255 N
Air consumption returning per 10 mm stroke	5.492 l
Air consumption advancing per 10 mm stroke	5.63 l
Moving mass with 0 mm stroke	9,868.9 g
Additional mass factor per 10 mm of stroke	151.1 g
Product weight	34,300 ... 109,620 g
Basic weight for 0 mm stroke	33,831.25 g
Additional weight per 10 mm stroke	473.67 g
Mounting type	On flange as per ISO 5210 With spacer bolt Optional
Pneumatic connection	G1/4
Materials note	Conforms to RoHS
Material cover	Aluminum
Material piston rod	High alloy steel, non-corrosive
Material piston rod wiper seal	TPE-U(PU)
Material nut	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