

# Linear drive DFPC-320- -

Part number: 8141421

FESTO



 General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Size of valve actuator	320
Flange hole pattern	F10 F14
Stroke	10 mm ... 1600 mm
Piston diameter	320 mm
Fitting connection conforms to standard	ISO 5210
Cushioning	Elastic cushioning rings/plates at both ends
Mounting position	Any
Mode of operation	Double-acting
Design	Piston Piston rod Tie rod 1 Cylinder barrel
Position detection	Via proximity switch
Symbol	00991217
Variants	Extended male piston rod thread Custom thread on the piston rod Piston rod with male thread shortened at one end Extended piston rod Spacer bolt on bearing cap side
Operating pressure	0.25 MPa ... 0.8 MPa
Operating pressure	2.5 bar ... 8 bar
Operating pressure	36.25 psi ... 116 psi
Nominal operating pressure	0.6 MPa
Nominal operating pressure	6 bar
CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)
UKCA marking (see declaration of conformity)	To UK EX instructions
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
Explosion protection	Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) Zone 22 (ATEX)
ATEX category gas	II 2G
ATEX category dust	II 2D
Explosion ignition protection type for gas	Ex h IIC T4 Gb
Explosion ignition protection type for dust	Ex h IIIC T120°C Db

Feature	Value
Explosion ambient temperature	-20°C ≤ Ta ≤ +80°C
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Vibration resistance	Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27
LABS (PWIS) conformity	VDMA24364 zone III
Ambient temperature	-20 °C ... 80 °C
Impact energy in end positions	12.6 J
Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke	47077 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke	48255 N
Air consumption on return stroke per 10 mm	5.492 l
Air consumption on advance stroke per 10 mm	5.63 l
Moving mass for 0 mm stroke	9868.9 g
Additional moving mass per 10 mm stroke	151.1 g
Product weight	34300 g ... 109620 g
Basic weight for 0 mm stroke	33831.25 g
Additional weight per 10 mm stroke	473.67 g
Type of mounting	on flange according to ISO 5210 With spacer bolt
Pneumatic connection	G1/4
Note on materials	RoHS compliant
Material cover	Gravity die-cast aluminium Aluminium
Material piston rod	High-alloy stainless steel
Material piston rod wiper	TPE-U(PU)
Material nut	High-alloy stainless steel
Material static seals	NBR
Material tie rod	High-alloy stainless steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy