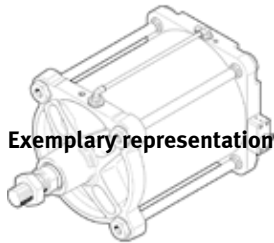


linear drive DFPI-320- -ND2P-C1V-NB3P-R-A

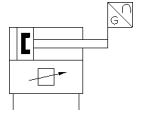
Part number: 4591205

FESTO

with integrated electropneumatic positioner, double-acting, piston diameter 320 mm, mounting interfaces to ISO 15552 on bearing and end caps, electric/pneumatic connection via metallic female socket and connecting cable NHSB (accessories), 4-wire, 24 VDC power supply, setpoint input 4...20 mA, position feedback signal 4...20 mA, retracting piston rod safety position.



Exemplary representation



Data sheet

Feature	Value
Size of actuator	320
Stroke	40 ... 990 mm
Piston diameter	320 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	for operating voltage for setpoint value Initialisation connection
Operating pressure MPa	0.3 ... 0.8 MPa
Operating pressure	3 ... 8 bar 43.5 ... 116 psi
Nominal operating pressure	0.6 MPa 6 bar
Nominal operating pressure (psi)	87 psi
Analogue 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
Authorisation	RCM Mark
KC mark	KC-EMV
CE mark (see declaration of conformity)	to EU directive for EMC to EU directive explosion protection (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) EPL Gc (GB)
ATEX category Gas	II 3G
ATEX category Dust	II 3D
Explosion ignition protection type Gas	Ex ec IIC T4 X Gc

Feature	Value
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
PWIS conformity	VDMA24364 zone III
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	46,385 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	48,255 N
Air consumption returning per 10 mm stroke	5.412 l
Air consumption advancing per 10 mm stroke	5.63 l
Moving mass with 0 mm stroke	16,500 g
Additional mass factor per 10 mm of stroke	227 g
Basic weight for 0 mm stroke	57,550 g
Additional weight per 10 mm stroke	582 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 With specific accessories
Pneumatic connection	For tubing outside diameter 8 mm For tubing outside diameter 10 mm With specific accessories
Materials note	Conforms to RoHS
Material of end caps	Coated wrought aluminium alloy
Material underneath cover	Die-cast aluminium, coated
Material piston rod	High alloy steel, non-corrosive
Material piston rod wiper seal	NBR
Material screws	Coated steel 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