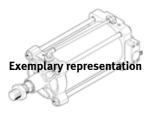
linear drive DFPI-160- -ND2P-C1V-NB3P-R-A

Part number: 4588972

with integrated electropneumatic positioner, double-acting, piston diameter 160 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.



Data sheet

Feature	Value	
Size of actuator	160	
Stroke	40 990 mm	
Piston diameter	160 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	

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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
	ІР69К
	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	11,581 N
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	12,064 N
Air consumption returning per 10 mm stroke	1.351
Air consumption advancing per 10 mm stroke	1.407 l
Moving mass with 0 mm stroke	3,700 g
Additional mass factor per 10 mm of stroke	89 g
Basic weight for 0 mm stroke	14,330 g
Additional weight per 10 mm stroke	200 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