Linear drive DFPI-100- -ND2P-C1V-P Part number: 561380

With integrated displacement encoder, positioner and valve manifold.

Exemplary representation 6

Data sheet

Feature	Value
Size of actuator	100
Flange hole pattern	F07
Stroke	40 990 mm
Stroke reserve	3 mm
Piston diameter	100 mm
Based on the standard	DIN 3358
Cushioning	No cushioning
Assembly position	Any
Mode of operation	double-acting
Design structure	Piston rod
	Cylinder barrel
Outdoor use	C1 - weather protected locations of use
Position detection	For proximity sensor
	With integrated displacement encoder
Measuring method: displacement encoder	Potentiometer
Polarity protected	for operating voltage
	for setpoint value
	Initialisation connection
Operating pressure	3 8 bar
Nominal operating pressure	6 bar
Max. speed, advancing	0.074 m/s
Max. speed, retracting	0.071 m/s
Operating voltage range DC	21.6 26.4 V
Nominal operating voltage DC	24 V
ATEX category Gas	II 3G
Explosion ignition protection type Gas	Ex nA II T4 X
ATEX category Dust	II 3D
Explosion ignition protection type Dust	Ex tD A22 IP65/67/69k T120°C X
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)
CE mark (see declaration of conformity)	to EU directive for EMC
	to EU directive explosion protection (ATEX)
Continuous shock resistance per DIN/IEC 68, parts 2 - 82	Tested in accordance with severity level 2
Corrosion resistance classification CRC	3
Relative air humidity	5 - 95 %
	Condensing
Protection class	IP65
	IP67
	IP69К
	NEMA 4
	in assembled condition
	to IEC 60529

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Feature	Value	
Vibration resistance per DIN/IEC 68, parts 2 - 6	Tested in accordance with severity level 2	
Ambient temperature	-5 50 °C	
Theoretical force at 6 bar, return stroke	4,417 N	
Theoretical force at 6 bar, advance stroke	4,712 N	
Air consumption returning per 10 mm stroke	0.5153	
Air consumption advancing per 10 mm stroke	0.54981	
Moving mass with 0 mm stroke	1,228 g	
Additional weight per 10 mm stroke	80 g	
Additional weight of displacement encoder per 10 mm	2 g	
Basic weight for 0 mm stroke	5,237 g	
Additional mass factor per 10 mm of stroke	27 g	
Size of the dead zone	2 %	
Max. line length	30 m	
Electrical connection	5-pin	
	Straight plug / screw terminal	
Mounting type	On flange to DIN 3358	
Pneumatic connection	Standard O.D. tubing	
	for tubing, 8mm outside diameter	
Materials note	Contains PWIS substances	
	Conforms to RoHS	
Materials information for cover	Wrought Aluminium alloy	
	Anodised	
Material information, lower seal	Wrought Aluminium alloy	
	Anodised	
Materials information for seals	NBR	
	TPE-U(PU)	
Materials information for piston rod	High alloy steel, non-corrosive	
Screw material data	High alloy steel, non-corrosive	
Materials information for cylinder barrel	Wrought Aluminium alloy	
	Anodised	