Standards-based cylinder DNCI-50- -Part number: 535413

In accordance with ISO 15552, with integrated, incremental displacement encoder.



Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Stroke	10 2,000 mm
Stroke servopneumatic positioning	100 500 mm
Stroke Soft Stop	100 500 mm
Stroke shortening in the end-positions	>= 15 mm
Smallest positioning stroke	3% of max. stroke
	However, not more than 20 mm
Piston diameter	50 mm
Based on the standard	ISO 15552 (previously also VDMA 24652, ISO 6431, NF E49 003.1, UNI 10290)
Cushioning	P: Flexible cushioning rings/plates at both ends
Mounting position, positioning	Any
Mounting position, soft stop	Any
Measuring method: displacement encoder	Digital
Design structure	Piston
	Piston rod
	Profile barrel
Position detection	For proximity sensor
	With integrated displacement encoder
Variants	Clamping unit attached
	Extended piston rod
	Single-ended piston rod
Protection against torque/guide	Double piston rod
Operating pressure MPa	<= 1.2 MPa
Working pressure	<= 12 bar
Operating pressure	<= 174 psi
Working pressure, positioning / soft stop	4 8 bar
Max. travel speed	> 1.5 m/s
Min. travel speed	0.05 m/s
Typical short stroke positioning time, horizontal	0,45/0,6 s
Typical long stroke positioning time, horizontal	0,65/0,8 s
Mode of operation	double-acting
Nominal operating voltage DC	5 V
CE symbol (see declaration of conformity)	according to EU-EMV guideline
	in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
	To UK RoHS instructions
Operating medium	Compressed air in accordance with ISO8573-1:2010 [6:4:4]
Note on operating and pilot medium	Pressure dew point 10°C below ambient temperature/temperature of medium
Continuous shock resistance per DIN/IEC 68, parts 2 - 82	Tested in accordance with severity level 2
Corrosion resistance classification CRC	1 - Low corrosion stress

FESTO

FESTO

Feature	Value	
PWIS conformity	VDMA24364-B1/B2-L	
Max. magnetic interference field	10KA/m at a distance of 100 mm	
Protection class	IP65	
	to IEC 60529	
Vibration resistance per DIN/IEC 68, parts 2 - 6	Tested in accordance with severity level 2	
Ambient temperature	-20 80 °C	
Impact energy in end positions	1 Nm	
Max. torque for protection against rotation	<= 0.05 Nm	-
Max. load, horizontal	120 kg	
Max. load, vertical	40 kg	
Min. load, horizontal	8 kg	
Min. load, vertical	8 kg	
Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting	990 N	
Theoretical force at 0.6 MPa (6 bar, 87 psi), advance	990 1,178 N	
Moving mass with 0 mm stroke	316 g	
Additional mass factor per 10 mm of stroke	23 g	
Basic weight for 0 mm stroke	1,319 g	
Additional weight per 10 mm stroke	62 g	
Output signal	Analog	
Repetition accuracy in ± mm	0.5 mm	
Max. controllable force during advance	1,060 N	
Max. controllable force during return	891 N	
Typical friction force	70 N	
Repetition accuracy, soft stop intermediate position	+/- 2 mm	
Electrical connection, displacement encoder	8-pin	
Cable length	1.5 m	
Mounting type	with accessories	
Pneumatic connection	G1/4	
Materials note	Conforms to RoHS	
Material cover	Wrought Aluminum alloy	
Material seals	NBR	
	TPE-U(PU)	
Material cable sheath	TPE-U(PUR)	
Material piston rod	High alloy steel	
Material screws	Steel	
Material sensor cover	Aluminum	-
Material sensor head	POM	
Material connector housing	РВТ	
Material cylinder barrel	Wrought Aluminum alloy	