ISO cylinder
DDPC-...-80- -

Part number: 1677705

Data sheet

Feature	Value
Stroke	10 mm...2000 mm
Stroke, servopneumatic positioning	50 mm...750 mm
Soft Stop stroke	50 mm...750 mm
Stroke reduction in the end positions	>= 15 mm
Shortest positioning stroke	3% of max. stroke But maximum 10 mm
Piston diameter	80 mm
Based on norm	ISO 15552 (previously also VDMA 24562, ISO 6431, NF E49 003.1, UNI 10290)
Cushioning	Elastic cushioning rings/pads at both ends
Mounting position, positioning	Any
Mounting position, Soft Stop	Any
Measuring principle of linear potentiometer	digital
Structural design	Piston Piston rod Profile barrel
Position sensing	Via proximity switch With integrated linear potentiometer
Variants	Clamping unit attached Extended piston rod Piston rod at one end
Protection against torsion/guide	Guide rod with yoke Square piston rod
Operating pressure	1.2 MPa 12 bar 174 psi
Operating pressure for positioning/soft stop	4 bar...8 bar
Max. travel speed	1 m/s
Min. travel speed	0.05 m/s
Typical positioning time, short-stroke, horizontal	0.77/0.95 s
Typical positioning time, long stroke, horizontal	0.88/1.02 s
Mode of operation	Double-acting
Nominal operating voltage DC	5 V
Certification	RCM compliance mark

Feature	Value
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Operating medium	Compressed air as per ISO 8573-1:2010 [6:4:4]
Information on operating and pilot media	Dew point min. 10 °C below the ambient temperature and temperature of medium
Continuous shock resistance to DIN/IEC 68 Part 2-82	Tested as per severity level 2
Corrosion resistance class (CRC)	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Max. magnetic interference field	10 KA/m at a distance of 100 mm
Degree of protection	IP65 As per IEC 60529
Vibration resistance to DIN/IEC 68 Part 2-6	Tested as per severity level 2
Ambient temperature	-20 °C...80 °C
Impact energy in the end positions	1.8 Nm
Max. torque for protection against rotation	3 Nm
Max. load, horizontal	300 kg
Max. load, vertical	100 kg
Min. load, horizontal	20 kg
Min. load, vertical	20 kg
Theoretical force at 6 bar, retracting	2721 N
Theoretical force at 6 bar, advancing	3016 N
Moving mass at 0 mm stroke	804 g
Additional moving mass per 10 mm stroke	31 g
Basic weight with 0 mm stroke	3053 g
Additional weight per 10 mm stroke	87 g
Output signal	Analog
Repetition accuracy in ± mm	0.5 mm
Max. controllable force, advancing	2714 N
Max. controllable force, retracting	2449 N
Typical friction force	140 N
Repetition accuracy, Soft Stop intermediate position	+/- 2 mm
Linear potentiometer electrical connection	8-pin
Cable length	1.5 m
Type of mounting	With accessories
Pneumatic connection	G3/8
Note on materials	RoHS compliant
Cover material	Wrought aluminum alloy
Seals material	FPM NBR TPE-U(PU)
Material of cable sheath	TPE-U(PUR)
Piston rod material	High-alloy steel
Material of screws	Steel
Sensor cover material	Aluminum
Sensor head material	POM
Material of plug housing	PBT
Material of cylinder barrel	Wrought aluminum alloy