



Data sheet

Stroke, servopneumatic positioning 50 mm750 mm Soft Stop stroke 50 mm750 mm Stroke reduction in the end positions >= 15 mm Shortest positioning stroke 3% of max. stroke Maximum 10 mm, however Based on norm 150 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 Measuing principle of linear potentiometer Digital Piston rod Profile barrel Position sensing Clamping unit attached Variants Clamping unit attached 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 bar8 bar Min. travel speed 0.05 m/s Min. travel speed 0.05 m/s Typical positioning time, long stroke, horizontal 0.77/0.95 s Typical positioning time, long stroke, horizontal 0.77/0.95 s Mode of operation Double-acting	Feature	Value
Soft Stop stroke 50 mm750 mm Stroke reduction in the end positions >= 15 mm Shortest positioning stroke 3% of max. stroke Maximum 10 mm, however 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 rod Position sensing For proximity sensor With integrated linear potentiometer Quare piston rod Protection against torsion/guide Guide rod with yoke Square piston rod Square piston rod Operating pressure 1.2 MPa 12 bar 12 bar 12 bar 12 bar 12 bar 12 bar 12 bar 174 psi Operating pressure for positioning/soft stop 4 bar8 bar Max. travel speed 0.77 (.95 s Min. travel speed 0.77 (.95 s My 0.88/1.02 s Mode of operation Double-actt	Stroke	10 mm2000 mm
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With integrated linear potentiometerVariantsClamping unit attached Extended piston rod Piston rod at one endProtection against torsion/guideGuide rod with yoke Square piston rodOperating pressure1.2 MPa 12 bar 174 psiOperating pressure for positioning/soft stop4 bar8 barMax. travel speed1 m/sMin. travel speed0.05 m/sTypical positioning time, short-stroke, horizontal0.77/0.95 sTypical positioning time, long stroke, horizontal0.88/1.02 sMode of operationDouble-actingNominal operating voltage DC5 V	Structural design	Piston rod
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Square piston rodOperating pressure1.2 MPa 12 bar 174 psiOperating pressure for positioning/soft stop4 bar8 barMax. travel speed1 m/sMin. travel speed0.05 m/sTypical positioning time, short-stroke, horizontal0.77/0.95 sTypical positioning time, long stroke, horizontal0.88/1.02 sMode of operationDouble-actingNominal operating voltage DC5 V	Variants	Extended piston rod
12 bar12 bar174 psiOperating pressure for positioning/soft stop4 bar8 barMax. travel speed1 m/sMin. travel speed0.05 m/sTypical positioning time, short-stroke, horizontal0.77/0.95 sTypical positioning time, long stroke, horizontal0.88/1.02 sMode of operationNominal operating voltage DC5 V	Protection against torsion/guide	
Max. travel speed1 m/sMin. travel speed0.05 m/sTypical positioning time, short-stroke, horizontal0.77/0.95 sTypical positioning time, long stroke, horizontal0.88/1.02 sMode of operationDouble-actingNominal operating voltage DC5 V	Operating pressure	12 bar
Min. travel speed0.05 m/sTypical positioning time, short-stroke, horizontal0.77/0.95 sTypical positioning time, long stroke, horizontal0.88/1.02 sMode of operationDouble-actingNominal operating voltage DC5 V	Operating pressure for positioning/soft stop	4 bar8 bar
Typical positioning time, short-stroke, horizontal0.77/0.95 sTypical positioning time, long stroke, horizontal0.88/1.02 sMode of operationDouble-actingNominal operating voltage DC5 V	Max. travel speed	1 m/s
Typical positioning time, long stroke, horizontal 0.88/1.02 s Mode of operation Double-acting Nominal operating voltage DC 5 V	Min. travel speed	0.05 m/s
Mode of operation Double-acting Nominal operating voltage DC 5 V	Typical positioning time, short-stroke, horizontal	0.77/0.95 s
Nominal operating voltage DC 5 V	Typical positioning time, long stroke, horizontal	0.88/1.02 s
	Mode of operation	Double-acting
Certification RCM compliance mark	Nominal operating voltage DC	5 V
	Certification	RCM compliance mark

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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	
	as per IEC 60529
Vibration resistance to DIN/IEC 68 Part 2-6	Tested as per severity level 2
Ambient temperature	-20 °C80 °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
Matavial of aphla abaath	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