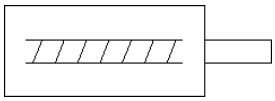
Electro-cylinder
DNCE-40-100-LS-"2,5"P-Q

Part number: 543123

FESTO

with lead screw actuator and non-rotating piston rod.



Data sheet

Feature	Value
Working stroke	100 mm
Size	40
Stroke	100 mm
Stroke reserve	0 mm
Piston rod thread	M12x1,25
Reversing backlash	0.2 mm
Spindle diameter	12.5 mm
Spindle pitch	2.5 mm/U
Max. angular deflection of piston rod +/-	0.25 deg
Based on the standard	ISO 15552 (previously also VDMA 24652, ISO 6431, NF E49 003.1, UNI 10290)
Assembly position	Any
Motor type	Stepper motor DC servo motor
Position detection	For proximity sensor
Design structure	Electro-cylinder with lead screw
Spindle type	Plain thread
Variants	Non-rotating piston rod
Protection against torque/guide	with plain-bearing guide
Max. acceleration	1 m/s2
Max. speed	0.07 m/s
Repetition accuracy	+/-0,07 mm
Duty cycle	100%
Corrosion resistance classification CRC	0
Storage temperature	-25 ... 60 °C
Relative air humidity	0 - 95 %
Protection class	IP40
Ambient temperature	0 ... 50 °C
Impact energy in end positions	0.0002 J
Permanent drive torque	1.15 Nm
Permanent feed force	600 N
Max. drive torque	1.15 Nm
Max. torque for protection against rotation	1 Nm
Max. torque Mx	1 Nm
Max. radial force at drive shaft	260 N
Max. static axial force Fx	1,400 N
Max. feed force Fx	600 N
No-load driving torque	0.12 Nm
Reference value for working load, horizontal	60 kg
Reference value for working load, vertical	30 kg
Mass moment of inertia JH per meter of stroke	0.1341 kgcm2
Mass moment of inertia JL per kg of working load	0.0016 kgcm2
Mass moment of inertia, JO	0.1316 kgcm2
Moving mass with 0 mm stroke	250 g

Feature	Value
Additional weight per 10 mm stroke	46.1 g
Basic weight for 0 mm stroke	1,210 g
Additional mass factor per 10 mm of stroke	8.9 g
Mounting type	with internal (female) thread with accessories
Materials note	Contains PWIS substances Conforms to RoHS
Materials information for cover	Aluminum casting Painted
Materials information for seals	NBR
Materials information, housing	Wrought Aluminum alloy Smooth anodized
Materials information for piston rod	High alloy steel, non-corrosive
Material information, spindle nut	POM
Material information, spindle	Steel
Materials information for cylinder barrel	Wrought Aluminum alloy Smooth anodized