

# electric cylinder

## ESBF-LS-32-100-2.5P

Part number: 8022570

FESTO

With lead screw, electrically actuated spindle that converts the rotary motion of the motor into linear motion of the piston rod.



## Data sheet

Feature	Value
Size	32
Stroke	100 mm
Piston rod thread	M10x1,25
Reversing backlash	100 µm
Spindle diameter	12 mm
Spindle pitch	2.5 mm/U
Max. angular deflection of piston rod +/-	0.25 deg
Based on the standard	ISO 15552
Assembly position	Any
Piston-rod end	Male thread
Motor type	Stepper motor Servomotor
Position detection	For proximity sensor
Design structure	Electro-cylinder with sliding thread spindle
Spindle type	Plain thread
Protection against torque/guide	with plain-bearing guide
Max. acceleration	2.5 m/s <sup>2</sup>
Max. speed	0.125 m/s
Repetition accuracy	±0,05 mm
Duty cycle	100 %
Corrosion resistance classification CRC	2 - Moderate corrosion stress
Storage temperature	-20 ... 60 °C
Food-safe	See Supplementary material information
Relative air humidity	0 - 95 %
Protection class	IP40
Ambient temperature	0 ... 50 °C
Max. drive torque	1.1 Nm
Max. radial force at drive shaft	115 N
Max. feed force Fx	600 N
No-load driving torque	0.1 Nm
Reference value for working load, horizontal	60 kg
Reference value for working load, vertical	60 kg
Mass moment of inertia JH per metre of stroke	1.6373 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of working load	0.0016 kgcm <sup>2</sup>
Mass moment of inertia, JO	0.0164 kgcm <sup>2</sup>
Moving mass with 0 mm stroke	198 g
Additional weight per 10 mm stroke	34 g
Basic weight for 0 mm stroke	667 g
Additional mass factor per 10 mm of stroke	9 g
Mounting type	with internal (female) thread or accessories
Interface code, actuator	D32
Materials note	Contains PWIS substances

Feature	Value
	Conforms to RoHS
Material cover	Wrought Aluminium alloy Smooth anodised
Material piston rod	High alloy steel, non-corrosive
Material screws	Steel Galvanised
Material spindle nut	Roller bearing steel
Material spindle	Roller bearing steel
Material cylinder barrel	Wrought Aluminium alloy Smooth anodised