

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

Part number: 8022570

FESTO



 General operating condition

## Data sheet

Feature	Value
Working stroke	100 mm
Size	32
Stroke	100 mm
Piston rod thread	M10x1.25
Reversing backlash theoretical	100 µm
Spindle diameter	12 mm
Spindle pitch	2.5 mm/U
Torsional backlash at piston rod +/-	0.25 deg
Based on standard	ISO 15552
Mounting position	Any
Piston-rod end	Male thread
Type of motor	Stepper motor Servo motor
Position detection	Via proximity switch
Design	Electric cylinder with lead screw spindle
Spindle type	Lead screw
Symbol	00991941
Protection against torque/guide	With plain-bearing guide
Max. acceleration	2.5 m/s <sup>2</sup>
Max. rotational speed	1200 rpm
Max. speed	0.125 m/s
Repetition accuracy	±0.05 mm
Duty cycle	100%
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Storage temperature	-20 °C ... 60 °C
Suitable for use with food	See supplementary material information
Relative air humidity	0 - 95%
Degree of protection	IP40
Ambient temperature	0 °C ... 50 °C
Max. drive torque	1.1 Nm
Max. radial force at drive shaft	115 N
Max. feed force F <sub>x</sub>	600 N
Frictional torque independent of load	0.1 Nm
Reference value effective load, horizontal	60 kg
Reference value effective load, vertical	60 kg

<b>Feature</b>	<b>Value</b>
Mass moment of inertia JH per metre of stroke	0.1612 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 for 0 mm stroke	198 g
Additional moving mass per 10 mm stroke	9 g
Basic weight for 0 mm stroke	667 g
Additional weight per 10 mm stroke	34 g
Type of mounting	With female thread Or accessories
Interface code, actuator	D32
Note on materials	RoHS compliant
Material cover	Wrought aluminium alloy, smooth anodised
Material piston rod	High-alloy stainless steel
Material screws	Galvanised steel
Material ball screw nut	Bearing steel
Material spindle	Bearing steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy