

# electric cylinder

## ESBF-BS-32-300-5P

Part number: 8022563

★ Core product range

FESTO

With ball 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	300 mm
Piston rod thread	M10x1,25
Reversing backlash	30 µm
Spindle diameter	12 mm
Spindle pitch	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 ball screw
Spindle type	Ball screw spindle
Protection against torque/guide	with plain-bearing guide
Max. acceleration	5 m/s <sup>2</sup>
Max. speed	0.56 m/s
Repetition accuracy	±0,01 mm
Duty cycle	100 %
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364 zone III
Storage temperature	-20 ... 60 °C
Food-safe	See Supplementary material information
Relative air humidity	0 - 95 %
Protection class	IP40
Ambient temperature	0 ... 60 °C
Max. drive torque	1.1 Nm
Max. radial force at drive shaft	115 N
Max. feed force F <sub>x</sub>	1,000 N
No-load driving torque	0.1 Nm
Reference value for working load, horizontal	100 kg
Reference value for working load, vertical	100 kg
Mass moment of inertia J <sub>H</sub> per metre of stroke	0.122 kgcm <sup>2</sup>
Mass moment of inertia J <sub>L</sub> per kg of working load	0.0063 kgcm <sup>2</sup>
Mass moment of inertia, J <sub>0</sub>	0.023 kgcm <sup>2</sup>
Moving mass with 0 mm stroke	281 g
Additional mass factor per 10 mm of stroke	9 g
Basic weight for 0 mm stroke	781 g
Additional weight per 10 mm stroke	33 g
Mounting type	with internal (female) thread or accessories
Interface code, actuator	D32

Feature	Value
Materials note	Conforms to RoHS
Material cover	Smooth anodised wrought aluminium alloy
Material piston rod	High alloy steel, non-corrosive
Material screws	Galvanised steel
Material spindle nut	Roller bearing steel
Material spindle	Roller bearing steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy