

# electric cylinder

## ESBF-BS-32-300-10P

Part number: 8022567

☆ 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
Working stroke	300 mm
Size	32
Stroke	300 mm
Piston rod thread	M10x1,25
Reversing backlash	40 µm
Spindle diameter	12 mm
Spindle pitch	10 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	15 m/s <sup>2</sup>
Max. speed	1.11 m/s
Repetition accuracy	±0,01 mm
Duty cycle	100 %
Corrosion resistance classification CRC	2 - Moderate corrosion stress
Storage temperature	-20 ... 60 °C
Relative air humidity	0 - 95 %
Protection class	IP40
Ambient temperature	0 ... 60 °C
Max. drive torque	2 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
Mass moment of inertia J <sub>H</sub> per metre of stroke	0.1386 kgcm <sup>2</sup>
Mass moment of inertia J <sub>L</sub> per kg of working load	0.0253 kgcm <sup>2</sup>
Mass moment of inertia, J <sub>O</sub>	0.0361 kgcm <sup>2</sup>
Moving mass with 0 mm stroke	281 g
Additional weight per 10 mm stroke	33 g
Basic weight for 0 mm stroke	781 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 Conforms to RoHS
Material cover	Wrought Aluminium alloy

Feature	Value
	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