

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

Part number: 8022567

FESTO



 General operating condition

## Data sheet

Feature	Value
Working stroke	300 mm
Size	32
Stroke	300 mm
Piston rod thread	M10x1.25
Reversing backlash theoretical	40 µm
Spindle diameter	12 mm
Spindle pitch	10 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 ball screw
Spindle type	Ball screw
Symbol	00991941
Protection against torque/guide	With plain-bearing guide
Max. acceleration	15 m/s <sup>2</sup>
Max. rotational speed	6600 rpm
Max. speed	1.11 m/s
Repetition accuracy	±0.01 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 ... 60 °C
Max. drive torque	2 Nm
Max. radial force at drive shaft	115 N
Max. feed force F <sub>x</sub>	1000 N
Frictional torque independent of load	0.1 Nm
Reference value effective load, horizontal	100 kg
Reference value effective load, vertical	100 kg

<b>Feature</b>	<b>Value</b>
Mass moment of inertia JH per metre of stroke	0.1386 kgcm <sup>2</sup>
Mass moment of inertia JL per kg of working load	0.0253 kgcm <sup>2</sup>
Mass moment of inertia JO	0.0361 kgcm <sup>2</sup>
Maintenance interval	Lifetime lubrication
Moving mass for 0 mm stroke	281 g
Additional moving mass per 10 mm stroke	9 g
Basic weight for 0 mm stroke	781 g
Additional weight per 10 mm stroke	33 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