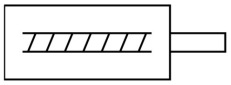
Electric actuator
ESBF-BS-32-300-5P

Part number: 8022563





Data sheet

Feature	Value
Size	32
Stroke	300 mm
Piston rod thread	M10x1.25
Reversing backlash	30 µm
Screw diameter	12 mm
Spindle pitch	5 mm/U
Max. angle of rotation of the piston rod +/-	0.25 deg
Based on norm	ISO 15552
Mounting position	Any
Piston rod end	External thread
Motor type	Stepper motor Servo motor
Position sensing	For proximity sensor
Structural design	Electric actuator with ball screw
Spindle type	Ball screw
Symbol	00991941
Protection against torsion/guide	With plain-bearing guide
Max. acceleration	5 m/s²
Max. speed	0.56 m/s
Repetition accuracy	±0.01 mm
Duty cycle	100%
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS conformity	VDMA24364 zone III
Storage temperature	-20 °C ... 60 °C
For use in the food industry	See supplementary material information
Relative air humidity	0 - 95 %
Degree of protection	IP40
Ambient temperature	0 °C ... 60 °C
Max. driving torque	1.1 Nm
Max. radial force on actuator shaft	115 N
Max. feed force Fx	1000 N
No-load driving torque	0.1 Nm
Guide value for payload, horizontal	100 kg
Guide value for payload, vertical	100 kg
Mass moment of inertia JH per meter of stroke	0.122 kgcm²
Mass moment of inertia JL per kg of payload	0.0063 kgcm²

Feature	Value
Mass moment of inertia JO	0.023 kgcm²
Moving mass at 0 mm stroke	281 g
Additional weight per 10 mm stroke	33 g
Basic weight with 0 mm stroke	781 g
Additional moving mass per 10 mm stroke	9 g
Type of mounting	With internal thread or accessory
Interface code, actuator	D32
Note on materials	RoHS-compliant
Cover material	Wrought aluminium alloy, smooth anodised
Piston rod material	High-alloy stainless steel
Material of screws	Steel, galvanized
Spindle nut material	Roller bearing steel
Spindle material	Roller bearing steel
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized