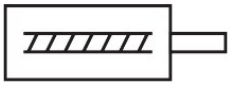
Electric cylinder
ESBF-BS-32-300-10P

Part number: 8022567



General operating condition

Data sheet

Feature	Value
Working stroke	300 mm
Size	32
Stroke	300 mm
Piston rod thread	M10x1.25
Reversing backlash	40 µm
Screw diameter	12 mm
Spindle pitch	10 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 cylinder with ball screw
Spindle type	Ball screw
Symbol	00991941
Protection against torsion/guide	With plain-bearing guide
Max. acceleration	15 m/s²
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
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	2 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

Feature	Value
Mass moment of inertia JH per meter of stroke	0.1386 kgcm²
Mass moment of inertia JL per kg of payload	0.0253 kgcm²
Mass moment of inertia JO	0.0361 kgcm²
Maintenance interval	Life-time lubrication
Moving mass at 0 mm stroke	281 g
Additional moving mass per 10 mm stroke	9 g
Basic weight with 0 mm stroke	781 g
Additional weight per 10 mm stroke	33 g
Type of mounting	With internal thread or accessory
Interface code, actuator	D32
Note on materials	RoHS-compliant
Cover material	Wrought aluminum alloy, smooth-anodized
Piston rod material	High-alloy stainless steel
Material of screws	Steel, galvanized
Ball screw nut material	Roller bearing steel
Spindle material	Roller bearing steel
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized