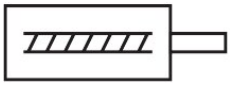
Electric cylinder
ESBF-LS-32-200-2.5P

Part number: 2295381





Data sheet

Feature	Value
Working stroke	200 mm
Size	32
Stroke	200 mm
Piston rod thread	M10x1.25
Reversing backlash	100 µm
Screw diameter	12 mm
Spindle pitch	2.5 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	Via proximity switch
Structural design	Electric cylinder with lead screw spindle
Spindle type	Lead screw
Protection against torsion/guide	With plain bearing-guide
Max. acceleration	2.5 m/s²
Max. rotational speed	1200 rpm
Max. speed	0.125 m/s
Repetition accuracy	±0.05 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...50 °C
Max. driving torque	1.1 Nm
Max. radial force on actuator shaft	115 N
Max. feed force Fx	600 N

Feature	Value
No-load driving torque	0.1 Nm
Guide value for payload, horizontal	60 kg
Guide value for payload, vertical	60 kg
Mass moment of inertia JH per meter of stroke	0.1612 kgcm²
Mass moment of inertia JL per kg of payload	0.0016 kgcm²
Mass moment of inertia JO	0.0164 kgcm²
Moving mass at 0 mm stroke	198 g
Additional moving mass per 10 mm stroke	9 g
Basic weight with 0 mm stroke	667 g
Additional weight per 10 mm stroke	34 g
Type of mounting	With internal thread or accessories
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	Galvanized steel
Ball screw nut material	Bearing steel
Spindle material	Bearing steel
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized