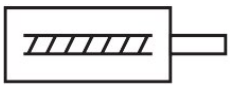
Electric cylinder
ESBF-BS-63-400-10P

Part number: 574099



General operating condition

Data sheet

Feature	Value
Working stroke	400 mm
Size	63
Stroke	400 mm
Piston rod thread	M16x1.5
Reversing backlash	30 µm
Screw diameter	25 mm
Spindle pitch	10 mm/U
Max. angle of rotation of the piston rod +/-	0.4 deg
Based on norm	ISO 15552
Mounting position	Any
Piston rod end	External thread
Motor type	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	3220 rpm
Max. speed	0.53 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	13.1 Nm
Max. radial force on actuator shaft	700 N
Max. feed force Fx	7000 N
No-load driving torque	0.45 Nm
Guide value for payload, horizontal	700 kg
Guide value for payload, vertical	700 kg
Mass moment of inertia JH per meter of stroke	2.8592 kgcm²

Feature	Value
Mass moment of inertia JL per kg of payload	0.02533 kgcm²
Mass moment of inertia JO	0.48631 kgcm²
Maintenance interval	Life-time lubrication
Moving mass at 0 mm stroke	1829 g
Additional moving mass per 10 mm stroke	52 g
Basic weight with 0 mm stroke	3163 g
Additional weight per 10 mm stroke	87 g
Type of mounting	With internal thread or accessory
Interface code, actuator	D60
Note on materials	RoHS-compliant
Cover material	Die-cast aluminum, coated
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