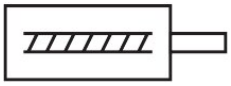
Electric cylinder
ESBF-BS-100-100-5P

Part number: 574115





Data sheet

Feature	Value
Working stroke	100 mm
Size	100
Stroke	100 mm
Piston rod thread	M20x1.5
Reversing backlash	30 µm
Screw diameter	40 mm
Spindle pitch	5 mm/U
Max. angle of rotation of the piston rod +/-	0.5 deg
Based on norm	ISO 15552
Mounting position	Any
Piston rod end	External thread
Motor type	Servo motor
Position sensing	Via proximity switch
Structural design	Electric cylinder with ball screw
Spindle type	Ball screw
Protection against torsion/guide	With plain bearing-guide
Max. acceleration	5 m/s²
Max. rotational speed	2010 rpm
Max. speed	0.17 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	16.9 Nm
Max. radial force on actuator shaft	1100 N
Max. feed force Fx	17000 N

Feature	Value
No-load driving torque	0.7 Nm
Guide value for payload, horizontal	1700 kg
Guide value for payload, vertical	1700 kg
Mass moment of inertia JH per meter of stroke	18.978 kgcm²
Mass moment of inertia JL per kg of payload	0.00633 kgcm²
Mass moment of inertia JO	4.6963 kgcm²
Maintenance interval	Lifetime lubrication
Moving mass at 0 mm stroke	5300 g
Additional moving mass per 10 mm stroke	103 g
Basic weight with 0 mm stroke	7393 g
Additional weight per 10 mm stroke	155 g
Type of mounting	With internal thread or accessories
Interface code, actuator	D100
Note on materials	RoHS compliant
Cover material	Die-cast aluminum, coated
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