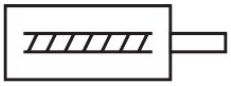
Electric cylinder
ESBF-BS-63-400-25P

Part number: 574103



General operating condition

Data sheet

Feature	Value
Working stroke	400 mm
Size	63
Stroke	400 mm
Piston rod thread	M16x1.5
Reversing backlash theoretical	40 µm
Spindle diameter	25 mm
Spindle pitch	25 mm/U
Torsional backlash at piston rod +/-	0.4 deg
Based on standard	ISO 15552
Mounting position	optional
Piston-rod end	Male thread
Type of motor	Servo motor
Position detection	Via proximity switch
Design	Electric cylinder with ball screw
Spindle type	Ball screw
Symbol	00991941
Protection against torque/guide	With plain-bearing guide
Max. acceleration	25 m/s²
Max. rotational speed	3260 rpm
Max. speed	1.35 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
Suitable for use with food	See supplementary material information
Relative air humidity	0 - 95%
Degree of protection	IP40
Ambient temperature	0 °C ... 60 °C
Max. drive torque	26.5 Nm
Max. radial force at drive shaft	700 N
Max. feed force Fx	6000 N
Frictional torque independent of load	0.5 Nm
Reference value effective load, horizontal	600 kg
Reference value effective load, vertical	600 kg
Mass moment of inertia JH per metre of stroke	3.0526 kgcm²

Feature	Value
Mass moment of inertia JL per kg of working load	0.15831 kgcm²
Mass moment of inertia JO	0.65043 kgcm²
Maintenance interval	Life-time lubrication
Moving mass for 0 mm stroke	1829 g
Additional moving mass per 10 mm stroke	52 g
Basic weight for 0 mm stroke	3163 g
Additional weight per 10 mm stroke	87 g
Type of mounting	Via female thread Or accessories
Interface code, actuator	D60
Note on materials	RoHS-compliant
Material cover	Cast aluminium, coated
Material piston rod	High-alloy stainless steel
Material screws	Galvanised steel
Material ball screw nut	Rolled steel
Material spindle	Rolled steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy