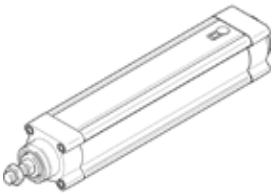
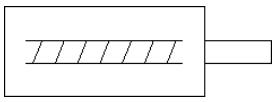
electric cylinder
ESBF-BS-100-400-40P

Part number: 574125

With ball screw, electrically actuated spindle that converts the rotary motion of the motor into linear motion of the piston rod.





Data sheet

Feature	Value
Size	100
Stroke	400 mm
Piston rod thread	M20x1,5
Reversing backlash	40 µm
Spindle diameter	40 mm
Spindle pitch	40 mm/U
Max. angular deflection of piston rod +/-	0.5 deg
Based on the standard	ISO 15552
Assembly position	Any
Piston-rod end	Male thread
Motor type	Servomotor
Position detection	For proximity sensor
Design structure	Electro-cylinder with ball screw
Spindle type	Ball screw spindle
Protection against torque/guide	with plain-bearing guide
Max. acceleration	25 m/s2
Max. speed	1.34 m/s
Repetition accuracy	±0,01 mm
Duty cycle	100 %
Corrosion resistance classification CRC	2 - Moderate corrosion stress
Storage temperature	-20 ... 60 °C
Food-safe	See Supplementary material information
Relative air humidity	0 - 95 %
Protection class	IP40
Ambient temperature	0 ... 60 °C
Max. drive torque	102.6 Nm
Max. radial force at drive shaft	1,100 N
Max. feed force Fx	14,500 N
No-load driving torque	1 Nm
Reference value for working load, horizontal	1,400 kg
Reference value for working load, vertical	1,400 kg
Mass moment of inertia JH per metre of stroke	20.372 kgcm2
Mass moment of inertia JL per kg of working load	0.40528 kgcm2
Mass moment of inertia, JO	6.1704 kgcm2
Moving mass with 0 mm stroke	8,786 g
Additional weight per 10 mm stroke	193 g
Basic weight for 0 mm stroke	11,123 g
Additional mass factor per 10 mm of stroke	132 g
Mounting type	with internal (female) thread or accessories
Interface code, actuator	D100
Materials note	Contains PWIS substances Conforms to RoHS

Feature	Value
Material cover	Aluminium casting coated
Material piston rod	High alloy steel, non-corrosive
Material screws	Steel Galvanised
Material spindle nut	Roller bearing steel
Material spindle	Roller bearing steel
Material cylinder barrel	Wrought Aluminium alloy Smooth anodised