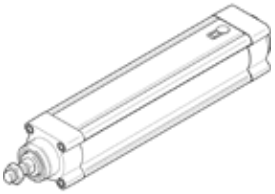
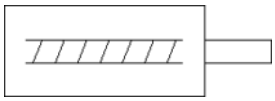
Electro-cylinder
ESBF-BS-63-400-5P

Part number: 574095
☆ Core product range

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





Data sheet

Feature	values
Working stroke	400 mm
Size	63
Stroke	400 mm
Piston rod thread	M16x1,5
Reversing backlash	30 µm
Spindle diameter	25 mm
Spindle pitch	5 mm/U
Max. angular deflection of piston rod +/-	0.4 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 actuator
Protection against torque/guide	with plain-bearing guide
Max. acceleration	5 m/s2
Max. speed	0.27 m/s
Repetition accuracy	±0,015 mm
Duty cycle	100%
Corrosion resistance classification CRC	2
Storage temperature	-20 ... 60 °C
Relative air humidity	0 - 95 %
Protection class	IP40
Ambient temperature	0 ... 60 °C
Max. drive torque	7 Nm
Max. lateral force Fq as a function of the projection x	Diagram
Max. radial force at drive shaft	700 N
Max. feed force Fx	7,000 N
Max. permissible speed dependent on stroke length	Diagram
No-load driving torque	0.4 Nm
Mass moment of inertia JH per meter of stroke	2.8316 kgcm2
Mass moment of inertia JL per kg of working load	0.00633 kgcm2
Mass moment of inertia, JO	0.49112 kgcm2
Moving mass with 0 mm stroke	1,829 g
Additional weight per 10 mm stroke	87 g
Basic weight for 0 mm stroke	3,163 g
Additional mass factor per 10 mm of stroke	52 g
Mounting type	with internal (female) thread or accessories
Interface code, actuator	D60
Materials note	Contains PWIS substances Conforms to RoHS

Feature	values
Materials information for cover	Aluminum casting coated
Materials information for piston rod	High alloy steel, non-corrosive
Screw material data	Steel Galvanized
Material information, spindle nut	Roller bearing steel
Material information, spindle	Roller bearing steel
Materials information for cylinder barrel	Wrought Aluminum alloy Smooth anodized