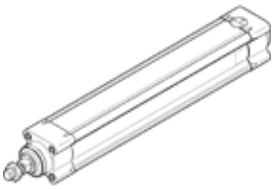
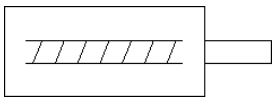
Electro-cylinder
ESBF-LS-40-400-3P

Part number: 8022588

FESTO

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





Data sheet

Feature	Value
Size	40
Stroke	400 mm
Piston rod thread	M12x1,25
Reversing backlash	100 µm
Spindle diameter	16 mm
Spindle pitch	3 mm/U
Max. angular deflection of piston rod +/-	0.2 deg
Based on the standard	ISO 15552
Assembly position	Any
Piston-rod end	Male thread
Motor type	Stepper motor Servomotor
Position detection	For proximity sensor
Design structure	Electro-cylinder with lead screw
Spindle type	Plain thread
Protection against torque/guide	with plain-bearing guide
Max. acceleration	2.5 m/s2
Max. speed	0.15 m/s
Repetition accuracy	±0,05 mm
Duty cycle	100 %
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364 zone III
Storage temperature	-20 ... 60 °C
Food-safe	See Supplementary material information
Relative air humidity	0 - 95 %
Protection class	IP40
Ambient temperature	0 ... 50 °C
Max. drive torque	2.4 Nm
Max. radial force at drive shaft	130 N
Max. feed force Fx	1,000 N
No-load driving torque	0.2 Nm
Reference value for working load, horizontal	100 kg
Reference value for working load, vertical	100 kg
Mass moment of inertia JH per meter of stroke	1.0187 kgcm2
Mass moment of inertia JL per kg of working load	0.0063 kgcm2
Mass moment of inertia, JO	0.1453 kgcm2
Moving mass with 0 mm stroke	317 g
Additional mass factor per 10 mm of stroke	11 g
Basic weight for 0 mm stroke	1,079 g
Additional weight per 10 mm stroke	48 g
Mounting type	with internal (female) thread or accessories
Interface code, actuator	D40

Feature	Value
Materials note	Conforms to RoHS
Material cover	Smooth anodised wrought aluminium alloy
Material piston rod	High alloy steel, non-corrosive
Material screws	Galvanized steel
Material spindle nut	Roller bearing steel
Material spindle	Roller bearing steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy