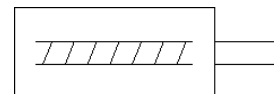
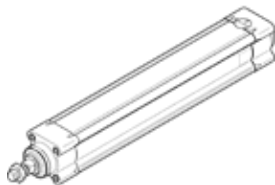


electric cylinder ESBF-LS-50-300-4P

Part number: 8022603

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	50
Stroke	300 mm
Piston rod thread	M16x1,5
Reversing backlash	100 µm
Spindle diameter	20 mm
Spindle pitch	4 mm/U
Max. angular deflection of piston rod +/-	0.15 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 sliding thread spindle
Spindle type	Plain thread
Protection against torque/guide	with plain-bearing guide
Max. acceleration	2.5 m/s ²
Max. speed	0.2 m/s
Repetition accuracy	±0,05 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 ... 50 °C
Max. drive torque	4.8 Nm
Max. radial force at drive shaft	300 N
Max. feed force Fx	1,600 N
No-load driving torque	0.3 Nm
Reference value for working load, horizontal	160 kg
Reference value for working load, vertical	160 kg
Mass moment of inertia JH per metre of stroke	1.2382 kgcm ²
Mass moment of inertia JL per kg of working load	0.004 kgcm ²
Mass moment of inertia, JO	0.1407 kgcm ²
Moving mass with 0 mm stroke	532 g
Additional weight per 10 mm stroke	67 g
Basic weight for 0 mm stroke	1,716 g
Additional mass factor per 10 mm of stroke	13 g
Mounting type	with internal (female) thread or accessories
Interface code, actuator	D50
Materials note	Contains PWIS substances

Feature	Value
	Conforms to RoHS
Material cover	Wrought Aluminium alloy Smooth anodised
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