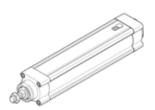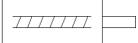# electric cylinder
ESBF-BS-32-400-5P

Part number: 8022564

☆ Core product range

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

FESTO

Data sheet

Feature	Value
Size	32
Stroke	400 mm
Piston rod thread	M10x1,25
Reversing backlash	30 µm
Spindle diameter	12 mm
Spindle pitch	5 mm/U
Max. angular deflection of piston rod +/-	0.25 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 ball screw
Spindle type	Ball screw spindle
Protection against torque/guide	with plain-bearing guide
Max. acceleration	5 m/s2
Max. speed	0.56 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	1.1 Nm
Max. radial force at drive shaft	115 N
Max. feed force Fx	1,000 N
No-load driving torque	0.1 Nm
Reference value for working load, horizontal	100 kg
Reference value for working load, vertical	100 kg
Mass moment of inertia JH per metre of stroke	0.122 kgcm2
Mass moment of inertia JL per kg of working load	0.0063 kgcm2
Mass moment of inertia, JO	0.023 kgcm2
Moving mass with 0 mm stroke	281 g
Additional weight per 10 mm stroke	33 g
Basic weight for 0 mm stroke	781 g
Additional mass factor per 10 mm of stroke	9 g
Mounting type	with internal (female) thread
	or accessories
Interface code, actuator	D32
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