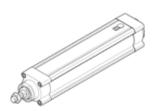
electric cylinder ESBF-BS-50-400-10P Part number: 8022596 ☆ Core product range

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







Data sheet

Feature	Value	
Size	50	
Stroke	400 mm	
Piston rod thread	M16x1,5	
Reversing backlash	30 μm	
Spindle diameter	20 mm	
Spindle pitch	10 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	$\overline{}$
Design structure	Electro-cylinder with ball screw	
Spindle type	Ball screw spindle	-
Protection against torque/guide	with plain-bearing guide	
Max. acceleration	15 m/s2	$\neg \neg$
Max. speed	0.67 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	9.2 Nm	
Max. radial force at drive shaft	300 N	
Max. feed force Fx	5,000 N	
No-load driving torque	0.3 Nm	
Reference value for working load, horizontal	500 kg	
Reference value for working load, vertical	500 kg	
Mass moment of inertia JH per metre of stroke	1.0426 kgcm2	
Mass moment of inertia JL per kg of working load	0.0252 kgcm2	
Mass moment of inertia, JO	0.1873 kgcm2	
Moving mass with 0 mm stroke	793 g	
Additional weight per 10 mm stroke	65 g	
Basic weight for 0 mm stroke	1,982 g	
Additional mass factor per 10 mm of stroke	35 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