electric cylinder ESBF-BS-50-400-20P Part number: 8022600 ☆ Core product range

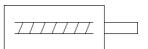
With ball screw, electrically actuated spindle that converts the rotary motion of the motor into linear motion of the piston rod.



Data sheet

Feature	Value	I
Size	50	
Stroke	400 mm	
Piston rod thread	M16x1,5	
Reversing backlash	40 µm	
Spindle diameter	20 mm	
Spindle pitch	20 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 ball screw	
Spindle type	Ball screw spindle	
Protection against torque/guide	with plain-bearing guide	+
Max. acceleration	25 m/s2	
Max. speed	1.33 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	16.3 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	1.1387 kgcm2	
Mass moment of inertia JL per kg of working load	0.1013 kgcm2	
Mass moment of inertia, JO	0.3289 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	





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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	