electric cylinder ESBF-BS-40-400-16P Part number: 8022584 ★ 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	40	
Stroke	400 mm	
Piston rod thread	M12x1,25	
Reversing backlash	40 μm	
Spindle diameter	16 mm	
Spindle pitch	16 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 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	
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 60 °C	
Max. drive torque	7.7 Nm	
Max. radial force at drive shaft	130 N	
Max. feed force Fx	3.000 N	
No-load driving torque	0.2 Nm	
Reference value for working load, horizontal	300 kg	
Reference value for working load, vertical	300 kg	
Mass moment of inertia JH per metre of stroke	0.5225 kgcm2	
Mass moment of inertia JL per kg of working load	0.06485 kgcm2	
Mass moment of inertia, JO	0.1249 kgcm2	
Moving mass with 0 mm stroke	467 g	
Additional mass factor per 10 mm of stroke	26 g	
Basic weight for 0 mm stroke	1,237 g	
Additional weight per 10 mm stroke	47 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	Galvanised steel
Material spindle nut	Roller bearing steel
Material spindle	Roller bearing steel
Material cylinder barrel	Smooth-anodised wrought aluminium alloy