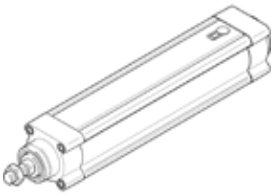
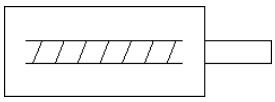
electric cylinder
ESBF-BS-80-200-32P

Part number: 574112

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	80
Stroke	200 mm
Piston rod thread	M20x1,5
Reversing backlash	40 µm
Spindle diameter	32 mm
Spindle pitch	32 mm/U
Max. angular deflection of piston rod +/-	0.5 deg
Based on the standard	ISO 15552
Assembly position	Any
Piston-rod end	Male thread
Motor type	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	56.6 Nm
Max. radial force at drive shaft	1,100 N
Max. feed force Fx	10,001 N
No-load driving torque	0.65 Nm
Reference value for working load, horizontal	1,000 kg
Reference value for working load, vertical	1,000 kg
Mass moment of inertia JH per metre of stroke	8.277 kgcm2
Mass moment of inertia JL per kg of working load	0.25938 kgcm2
Mass moment of inertia, JO	2.1197 kgcm2
Moving mass with 0 mm stroke	5,300 g
Additional mass factor per 10 mm of stroke	103 g
Basic weight for 0 mm stroke	7,393 g
Additional weight per 10 mm stroke	155 g
Mounting type	with internal (female) thread or accessories
Interface code, actuator	D80
Materials note	Conforms to RoHS

Feature	Value
Material cover	Die-cast aluminium, coated
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