

Electric cylinder ESBF-...-80- -

Part number: 574091

FESTO



Data sheet

Feature	Value
Size	80
Stroke	30 mm...1500 mm
Piston rod thread	M20x1.5
Screw diameter	32 mm
Max. angle of rotation of the piston rod +/-	0.5 deg
Based on norm	ISO 15552
Mounting position	Any
Motor type	Servo motor
Position sensing	Via proximity switch
Structural design	Electric cylinder with ball screw
Spindle type	Ball screw
Variants	Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.
Protection against torsion/guide	With plain bearing-guide
Duty cycle	100%
Corrosion resistance class (CRC)	2 - Moderate corrosion stress 3 - High corrosion stress
LABS (PWIS) conformity	VDMA24364 Zone III
Suitability for the production of Li-ion batteries	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Class 7 according to ISO 14644-1
Storage temperature	-20 °C...60 °C
For use in the food industry	See supplementary material information
Relative air humidity	0 - 95%
Degree of protection	IP40 IP65
Ambient temperature	0 °C...60 °C
Max. radial force on actuator shaft	1100 N
Max. feed force Fx	12000 N
Guide value for payload, horizontal	1200 kg
Guide value for payload, vertical	1200 kg
Moving mass at 0 mm stroke	5300 g

Feature	Value
Additional moving mass per 10 mm stroke	103 g
Basic weight with 0 mm stroke	7393 g
Additional weight per 10 mm stroke	155 g
Type of mounting	With internal thread or accessories
Interface code, actuator	D80
Note on materials	RoHS compliant
Cover material	Die-cast aluminum, coated
Piston rod material	high-alloy stainless steel
Material of screws	Galvanized steel
Ball screw nut material	Bearing steel
Spindle material	Bearing steel
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized