

# Electric cylinder ESBF-...-50- -

Part number: 8022601

**FESTO**



## Data sheet

Feature	Value
Size	50
Stroke	30 mm...1000 mm
Piston rod thread	M16x1.5
Screw diameter	20 mm
Max. angle of rotation of the piston rod +/-	0.15 deg
Based on norm	ISO 15552
Mounting position	Any
Motor type	Stepper motor Servo motor
Position sensing	For proximity sensor
Structural design	Electric cylinder with ball screw Electric cylinder with lead screw spindle
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 in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni
Cleanroom class	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	300 N
Max. feed force Fx	5000 N
No-load driving torque	0.3 Nm

Feature	Value
Type of mounting	With internal thread or accessory
Interface code, actuator	D50
Note on materials	RoHS-compliant
Cover material	Wrought aluminum alloy, smooth-anodized
Piston rod material	High-alloy stainless steel
Material of screws	Steel, galvanized
Spindle nut material	Roller bearing steel
Spindle material	Roller bearing steel
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized