Electric cylinder
EPCC-BS-32-

Part number: 5428849

Data sheet

Feature	Value
Size	32
Stroke	25 mm...200 mm
Stroke reserve	0 mm
Piston rod thread	M8
Reversing backlash	100 µm
Screw diameter	8 mm
Spindle pitch	3 mm/U...8 mm/U
Max. angle of rotation of the piston rod +/-	1 deg
Mounting position	Any
Piston rod end	External thread Internal thread
Motor type	Stepper motor Servo motor
Position sensing	For proximity sensor
Structural design	Electric actuator with ball screw drive
Spindle type	Ball screw drive
Protection against torsion/guide	With plain-bearing guide
Max. acceleration	5 m/s²...15 m/s²
Max. rotational speed	3750 rpm
Max. speed	0.188 m/s...0.5 m/s
Max. homing speed	0.01 m/s
Repetition accuracy	±0.02 mm
Duty cycle	100%
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Suitability for the production of Li-ion batteries	Product corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 9 according to ISO 14644-1
Storage temperature	-20 °C...60 °C

Feature	Value
Relative air humidity	0 - 95 % Non-condensing
Degree of protection	IP40
Ambient temperature	0 °C...60 °C
Impact energy in the end positions	0.0036 J
Max. driving torque	0.15 Nm...0.3 Nm
Max. torque Mx	0 Nm
Max. torque My	1.5 Nm
Max. torque Mz	1.5 Nm
Max. radial force on actuator shaft	75 N
Max. feed force Fx	150 N
No-load driving torque	0.065 Nm...0.095 Nm
Guide value for payload, horizontal	24 kg
Guide value for payload, vertical	12 kg
Mass moment of inertia JH per meter of stroke	0.0256 kgcm²...0.0311 kgcm²
Mass moment of inertia JL per kg of payload	0.0023 kgcm²...0.0162 kgcm²
Mass moment of inertia JO	0.0042 kgcm²...0.0055 kgcm²
Maintenance interval	Life-time lubrication
Moving mass at 0 mm stroke	98 g...268 g
Additional moving mass per 10 mm stroke	3.3 g...11.2 g
Basic weight with 0 mm stroke	225 g...838 g
Additional weight per 10 mm stroke	24 g...32 g
Type of mounting	With internal thread With accessories
Note on materials	RoHS-compliant
Housing material	Wrought aluminum alloy Smooth anodized
Piston rod material	High-alloy stainless steel
Spindle nut material	Steel
Spindle material	Roller bearing steel