

Electric cylinder EPCC-BS-25-

Part number: 5428821

FESTO



 General operating condition

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Size	25
Stroke	25 mm ... 200 mm
Stroke reserve	0 mm
Piston rod thread	M6
Reversing backlash theoretical	100 µm
Spindle diameter	6 mm
Spindle pitch	2 mm/U ... 6 mm/U
Torsional backlash at piston rod +/-	1 deg
Mounting position	Any
Piston-rod end	Male thread Female thread
Type of motor	Stepper motor Servo motor
Position detection	Via proximity switch
Design	With ball screw
Spindle type	Ball screw
Symbol	00991941
Protection against torque/guide	With plain-bearing guide
Max. acceleration	5 m/s ² ... 15 m/s ²
Max. rotational speed	4000 rpm
Max. speed	0.067 m/s ... 0.4 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	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Class 9 according to ISO 14644-1
Storage temperature	-20 °C ... 60 °C
Relative air humidity	Non-condensing
Degree of protection	IP40
Ambient temperature	0 °C ... 60 °C
Impact energy in end positions	0.0012 J
Max. drive torque	0.05 Nm ... 0.1 Nm
Max. moment Mx	0 Nm

Feature	Value
Max. moment My	0.6 Nm
Max. moment Mz	0.6 Nm
Max. radial force at drive shaft	30 N
Max. feed force Fx	75 N
Frictional torque independent of load	0.02 Nm ... 0.055 Nm
Reference value effective load, horizontal	12 kg
Reference value effective load, vertical	6 kg
Mass moment of inertia JH per metre of stroke	0.0056 kgcm ² ... 0.0095 kgcm ²
Mass moment of inertia JL per kg of working load	0.001 kgcm ² ... 0.0091 kgcm ²
Mass moment of inertia JO	9.0E-4 kgcm ² ... 0.0014 kgcm ²
Maintenance interval	Lifetime lubrication
Moving mass for 0 mm stroke	53 g
Additional moving mass per 10 mm stroke	2.6 g
Basic weight for 0 mm stroke	132 g
Additional weight per 10 mm stroke	13 g
Type of mounting	With accessories
Note on materials	RoHS compliant
Material housing	Smooth-anodised
Material piston rod	High-alloy stainless steel
Material ball screw nut	Steel
Material spindle	Bearing steel