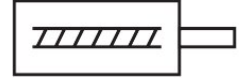



Electric cylinder ESBF-BS-50-200-20P

Part number: 8022598

FESTO



 General operating condition

Data sheet

Feature	Value
Working stroke	200 mm
Size	50
Stroke	200 mm
Piston rod thread	M16x1.5
Reversing backlash	40 µm
Screw diameter	20 mm
Spindle pitch	20 mm/U
Max. angle of rotation of the piston rod +/-	0.15 deg
Based on norm	ISO 15552
Mounting position	Any
Piston rod end	External thread
Motor type	Stepper motor Servo motor
Position sensing	For proximity sensor
Structural design	Electric cylinder with ball screw
Spindle type	Ball screw
Symbol	00991941
Protection against torsion/guide	With plain-bearing guide
Max. acceleration	25 m/s ²
Max. rotational speed	3600 rpm
Max. speed	1.33 m/s
Repetition accuracy	±0.01 mm
Duty cycle	100%
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
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
Ambient temperature	0 °C ... 60 °C
Max. driving torque	16.3 Nm
Max. radial force on actuator shaft	300 N
Max. feed force Fx	5000 N
No-load driving torque	0.3 Nm
Guide value for payload, horizontal	500 kg
Guide value for payload, vertical	500 kg

Feature	Value
Mass moment of inertia JH per meter of stroke	1.1387 kgcm ²
Mass moment of inertia JL per kg of payload	0.1013 kgcm ²
Mass moment of inertia JO	0.2203 kgcm ²
Maintenance interval	Life-time lubrication
Moving mass at 0 mm stroke	793 g
Additional moving mass per 10 mm stroke	35 g
Basic weight with 0 mm stroke	1982 g
Additional weight per 10 mm stroke	65 g
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
Ball screw nut material	Roller bearing steel
Spindle material	Roller bearing steel
Material of cylinder barrel	Wrought aluminum alloy, smooth-anodized