

Electric cylinder ESBF-BS-32-200-5P

Part number: 2215384

FESTO



 General operating condition

Data sheet

| Feature | Value |
|--|--|
| Working stroke | 200 mm |
| Size | 32 |
| Stroke | 200 mm |
| Piston rod thread | M10x1.25 |
| Reversing backlash theoretical | 30 µm |
| Spindle diameter | 12 mm |
| Spindle pitch | 5 mm/U |
| Torsional backlash at piston rod +/- | 0.25 deg |
| Based on standard | ISO 15552 |
| Mounting position | optional |
| Piston-rod end | Male thread |
| Type of motor | Stepper motor Servo motor |
| Position detection | Via proximity switch |
| Design | Electric cylinder with ball screw |
| Spindle type | Ball screw |
| Symbol | 00991941 |
| Protection against torque/guide | With plain-bearing guide |
| Max. acceleration | 5 m/s ² |
| Max. rotational speed | 6600 rpm |
| Max. speed | 0.56 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 |
| Suitable for use with food | See supplementary material information |
| Relative air humidity | 0 - 95% |
| Degree of protection | IP40 |
| Ambient temperature | 0 °C ... 60 °C |
| Max. drive torque | 1.1 Nm |
| Max. radial force at drive shaft | 115 N |
| Max. feed force Fx | 1000 N |
| Frictional torque independent of load | 0.1 Nm |
| Reference value effective load, horizontal | 100 kg |
| Reference value effective load, vertical | 100 kg |

| Feature | Value |
|--|--|
| Mass moment of inertia JH per metre of stroke | 0.122 kgcm ² |
| Mass moment of inertia JL per kg of working load | 0.0063 kgcm ² |
| Mass moment of inertia JO | 0.023 kgcm ² |
| Maintenance interval | Life-time lubrication |
| Moving mass for 0 mm stroke | 281 g |
| Additional moving mass per 10 mm stroke | 9 g |
| Basic weight for 0 mm stroke | 781 g |
| Additional weight per 10 mm stroke | 33 g |
| Type of mounting | Via female thread Or accessories |
| Interface code, actuator | D32 |
| Note on materials | RoHS-compliant |
| Material cover | Wrought aluminium alloy, smooth anodised |
| Material piston rod | High-alloy stainless steel |
| Material screws | Galvanised steel |
| Material ball screw nut | Rolled steel |
| Material spindle | Rolled steel |
| Material cylinder barrel | Smooth-anodised wrought aluminium alloy |