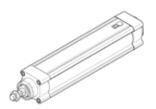
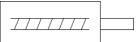
electric cylinder ESBF-BS-40-100-16P Part number: 8022581 ☆ Core product range

With ball screw, electrically actuated spindle that converts the rotary motion of the motor into linear motion of the piston rod.







Data sheet

| Feature | Value |
|--|--|
| Size | 40 |
| Stroke | 100 mm |
| Piston rod thread | M12x1,25 |
| Reversing backlash | 40 μm |
| Spindle diameter | 16 mm |
| Spindle pitch | 16 mm/U |
| Max. angular deflection of piston rod +/- | 0.2 deg |
| Based on the standard | ISO 15552 |
| Assembly position | Any |
| Piston-rod end | Male thread |
| Motor type | Stepper motor |
| | Servomotor |
| Position detection | For proximity sensor |
| Design structure | Electro-cylinder with ball screw |
| Spindle type | Ball screw spindle |
| Protection against torque/guide | with plain-bearing guide |
| Max. acceleration | 25 m/s2 |
| Max. speed | 1.33 m/s |
| Repetition accuracy | ±0,01 mm |
| Duty cycle | 100 % |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress |
| Storage temperature | -20 60 °C |
| Food-safe | See Supplementary material information |
| Relative air humidity | 0 - 95 % |
| Protection class | IP40 |
| Ambient temperature | 0 60 °C |
| Max. drive torque | 7.7 Nm |
| Max. radial force at drive shaft | 130 N |
| Max. feed force Fx | 3,000 N |
| No-load driving torque | 0.2 Nm |
| Reference value for working load, horizontal | 300 kg |
| Reference value for working load, vertical | 300 kg |
| Mass moment of inertia JH per metre of stroke | 0.5225 kgcm2 |
| Mass moment of inertia JL per kg of working load | 0.06485 kgcm2 |
| Mass moment of inertia, JO | 0.1249 kgcm2 |
| Moving mass with 0 mm stroke | 467 g |
| Additional weight per 10 mm stroke | 47 g |
| Basic weight for 0 mm stroke | 1,237 g |
| Additional mass factor per 10 mm of stroke | 26 g |
| Mounting type | with internal (female) thread |
| | or accessories |
| Interface code, actuator | D40 |
| Materials note | Contains PWIS substances |



| Feature | Value |
|--------------------------|---------------------------------|
| | Conforms to RoHS |
| Material cover | Wrought Aluminium alloy |
| | Smooth anodised |
| Material piston rod | High alloy steel, non-corrosive |
| Material screws | Steel |
| | Galvanised |
| Material spindle nut | Roller bearing steel |
| Material spindle | Roller bearing steel |
| Material cylinder barrel | Wrought Aluminium alloy |
| | Smooth anodised |