

guided drive DFM-20-20-P-A-KF

Part number: 170915

★ Core product range

With integrated guide.

The proximity switch, type SMTSO-8E, can be used with this product with stroke lengths of 20 to 40 mm only when the corresponding mounting kit, type SMB-8E, is mounted outwardly.

FESTO



Data sheet

| Feature | Value |
|---|---|
| Centre of gravity distance from working load to yoke plate | 50 mm |
| Stroke | 20 mm |
| Piston diameter | 20 mm |
| Operating mode of drive unit | Yoke |
| Cushioning | P: Flexible cushioning rings/plates at both ends |
| Assembly position | Any |
| Guide | Recirculating ball bearing guide |
| Design structure | Guide |
| Position detection | For proximity sensor |
| Operating pressure | 2 ... 10 bar |
| Max. speed | 0.8 m/s |
| Mode of operation | double-acting |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (subsequently required for further operation) |
| Corrosion resistance classification CRC | 0 - No corrosion stress |
| Ambient temperature | -5 ... 60 °C |
| Impact energy in end positions | 0.2 Nm |
| Max. force F _y | 408 N |
| Max. force F _y static | 510 N |
| Max. force F _z | 408 N |
| Max. force F _z static | 510 N |
| Max. torque M _x | 11.84 Nm |
| Max. torque M _x static | 14.79 Nm |
| Max. torque M _y | 4.49 Nm |
| Max. torque M _y static | 5.61 Nm |
| Max. torque M _z | 4.49 Nm |
| Max. torque M _z static | 5.61 Nm |
| Max. permissible torque load M _x as a function of the stroke | 2.43 Nm |
| Max. useful load as a function of the stroke at defined distance x _s | 46 N |
| Theoretical force at 6 bar, return stroke | 141 N |
| Theoretical force at 6 bar, advance stroke | 188 N |
| Moving mass | 376 g |
| Product weight | 747 g |
| Centre of gravity of the moving mass as a function of the stroke | 17.5 mm |
| alternative connections | See product drawing |
| Pneumatic connection | M5 |
| Materials note | Free of copper and PTFE Conforms to RoHS |
| Material cover | Wrought Aluminium alloy |
| Material seals | NBR |
| Material housing | Wrought Aluminium alloy |
| Material piston rod | High alloy steel, non-corrosive |