

Guided actuator DFM-50-80-P-A-KF

Part number: 170948

FESTO



Data sheet

| Feature | Value |
|--|--|
| Distance of centre of gravity of payload to yoke plate xs | 50 mm |
| Max. static moment Mx | 88 Nm |
| Max. static moment My | 51.2 Nm |
| Max. permissible torque load Mx as a function of the stroke | 16.43 Nm |
| Max. force Fz static | 1600 N |
| Max. force Fy static | 1600 N |
| Center of gravity of the moving mass as a function of the stroke | 57.4 mm |
| Max. static moment Mz | 51.2 Nm |
| Max. force Fz | 1487 N |
| Max. force Fy | 1487 N |
| Max. torque My | 47.58 Nm |
| Max. torque Mz | 47.58 Nm |
| Stroke | 80 mm |
| Piston diameter | 50 mm |
| Type code | DFM |
| Drive unit operating mode | Yoke |
| Cushioning | Elastic cushioning rings/pads at both ends |
| Mounting position | Any |
| Guide | Recirculating ball bearing guide |
| Design | Guide |
| Position sensing | For proximity sensor |
| Symbol | 00991737 |
| Operating pressure | 1 bar ... 10 bar |
| Operating pressure | 0.1 MPa ... 1 MPa |
| Max. speed | 0.6 m/s |
| Mode of operation | Double-acting |
| Operating medium | Compressed air as per ISO 8573-1:2010 [7:4:4] |
| Information on operating and pilot media | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC) | 0 - No corrosion stress |
| Ambient temperature | -5 °C ... 60 °C |
| Impact energy in the end positions | 1 J |
| Max. torque Mx | 81.79 Nm |
| Max. payload as a function of the stroke at defined distance xs | 233 N |
| Theoretical force at 6 bar, retracting | 1057 N |
| Theoretical force at 6 bar, advancing | 1178 N |
| Moving mass | 2287 g |

| Feature | Value |
|-------------------------|---|
| Product weight | 4614 g |
| Alternative connections | See product drawing |
| Pneumatic connection | G1/4 |
| Note on materials | Free of copper and PTFE RoHS-compliant |
| Cover material | Wrought aluminum alloy |
| Seals material | NBR |
| Housing material | Wrought aluminum alloy |
| Piston rod material | High-alloy stainless steel |