

Guided drive DFM-12-50-P-A-KF

Part number: 170904

FESTO



[PDF](#) General operating condition

Data sheet

| Feature | Value |
|---|--|
| Distance of centre of gravity of payload to yoke plate xs | 25 mm |
| Stroke | 50 mm |
| Piston diameter | 12 mm |
| Drive unit operating mode | Yoke |
| Cushioning | Elastic cushioning rings/pads at both ends |
| Mounting position | Any |
| Guide | Recirculating ball bearing |
| Structural design | Guide |
| Position sensing | Via proximity switch |
| Symbol | 00991737 |
| Operating pressure | 0.2 MPa ... 1 MPa |
| Operating pressure | 2 bar ... 10 bar |
| Max. speed | 0.8 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 |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 6 according to ISO 14644-1 |
| Ambient temperature | -5 °C ... 60 °C |
| Impact energy in the end positions | 0.07 J |
| Max. force Fy | 375 N |
| Max. force Fy static | 343 N |
| Max. force Fz | 375 N |
| Max. force Fz static | 343 N |
| Max. torque Mx | 7.68 Nm |
| Max. static moment Mx | 7.04 Nm |
| Max. torque My | 3.56 Nm |
| Max. static moment My | 3.26 Nm |
| Max. torque Mz | 3.56 Nm |
| Max. static moment Mz | 3.26 Nm |
| Max. permissible torque load Mx as a function of the stroke | 0.83 Nm |
| Max. payload as a function of the stroke at defined distance xs | 32 N |
| Theoretical force at 6 bar, retracting | 51 N |
| Theoretical force at 6 bar, advancing | 68 N |
| Moving mass | 206 g |

| Feature | Value |
|--|----------------------------|
| Product weight | 524 g |
| Center of gravity of the moving mass as a function of the stroke | 29 mm |
| Alternative connections | See product drawing |
| Pneumatic connection | M5 |
| Note on materials | RoHS compliant |
| Cover material | Wrought aluminum alloy |
| Seals material | NBR |
| Housing material | Wrought aluminum alloy |
| Piston rod material | high-alloy stainless steel |