

Guided actuator DFM-100-50-P-A-GF

Part number: 170893

FESTO



Data sheet

| Feature | Value |
|---|--|
| Distance of centre of gravity of payload to yoke plate xs | 125 mm |
| Stroke | 50 mm |
| Piston diameter | 100 mm |
| Drive unit operating mode | Yoke |
| Cushioning | Elastic cushioning rings/pads at both ends |
| Mounting position | Any |
| Guide | Sliding guide |
| Structural design | Guide |
| Position sensing | For proximity sensor |
| Operating pressure | 0.05 MPa...1 MPa 0.5 bar...10 bar |
| Max. speed | 0.4 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) | 1 - Low corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Ambient temperature | -20 °C...80 °C |
| Impact energy in the end positions | 1 Nm |
| Max. force Fy | 3640 N |
| Max. force Fy static | 3640 N |
| Max. force Fz | 3640 N |
| Max. force Fz static | 3640 N |
| Max. torque Mx | 342.2 Nm |
| Max. static moment Mx | 342.2 Nm |
| Max. torque My | 151.1 Nm |
| Max. static moment My | 151.1 Nm |
| Max. torque Mz | 151.1 Nm |
| Max. static moment Mz | 151.1 Nm |
| Max. permissible torque load Mx as a function of the stroke | 76.16 Nm |
| Max. payload as a function of the stroke at defined distance xs | 509 N |
| Theoretical force at 6 bar, retracting | 4418 N |

| Feature | Value |
|---------------------------------------|----------------------------|
| Theoretical force at 6 bar, advancing | 4712 N |
| Moving mass | 7113 g |
| Product weight | 12589 g |
| Alternative connections | See product drawing |
| Pneumatic connection | G3/8 |
| 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 |