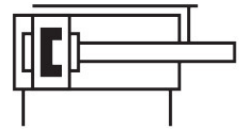


Guided actuators DFM-50-100-P-A-GF-F1A

Part number: 8118930

FESTO



Data sheet

| Feature | Value |
|---|---|
| Distance of centre of gravity of payload to yoke plate xs | 50 mm |
| Stroke | 100 mm |
| Piston diameter | 50 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 |
| Variants | Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. |
| Operating pressure | 0.1 MPa...1 MPa 1 bar...10 bar |
| 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 |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Suitability for the production of Li-ion batteries | Product corresponds to Festo's internal product definition for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils |
| Ambient temperature | -20 °C...80 °C |
| Impact energy in the end positions | 1 Nm |
| Max. force Fy | 1533 N |
| Max. force Fy static | 1533 N |
| Max. force Fz | 1533 N |
| Max. force Fz static | 1533 N |
| Max. torque Mx | 84.33 Nm |
| Max. static moment Mx | 84.33 Nm |

| Feature | Value |
|---|----------------------------|
| Max. torque My | 54.43 Nm |
| Max. static moment My | 54.43 Nm |
| Max. torque Mz | 54.43 Nm |
| Max. static moment Mz | 54.43 Nm |
| Max. permissible torque load Mx as a function of the stroke | 13.89 Nm |
| Max. payload as a function of the stroke at defined distance xs | 212 N |
| Theoretical force at 6 bar, retracting | 1057 N |
| Theoretical force at 6 bar, advancing | 1178 N |
| Moving mass | 2870 g |
| Product weight | 5511 g |
| Alternative connections | See product drawing |
| Pneumatic connection | G1/4 |
| 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 |