

Guided drive DFM-25-100-P-A-GF

Part number: 170853

FESTO



 [General operating condition](#)

Data sheet

| Feature | Value |
|---|--|
| Distance of centre of gravity of payload to yoke plate xs | 50 mm |
| Stroke | 100 mm |
| Piston diameter | 25 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 |
| Symbol | 00991737 |
| Operating pressure | 0.15 MPa ... 1 MPa |
| Operating pressure | 1.5 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) | 1 - Low 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 | -20 °C ... 80 °C |
| Impact energy in the end positions | 0.3 J |
| Max. force Fy | 810.7 N |
| Max. force Fy static | 810.7 N |
| Max. force Fz | 810.7 N |
| Max. force Fz static | 810.7 N |
| Max. torque Mx | 27.56 Nm |
| Max. static moment Mx | 27.56 Nm |
| Max. torque My | 19.46 Nm |
| Max. static moment My | 19.46 Nm |
| Max. torque Mz | 19.46 Nm |
| Max. static moment Mz | 19.46 Nm |
| Max. permissible torque load Mx as a function of the stroke | 3.64 Nm |
| Max. payload as a function of the stroke at defined distance xs | 86 N |
| Theoretical force at 6 bar, retracting | 247 N |
| Theoretical force at 6 bar, advancing | 295 N |
| Moving mass | 979 g |

| Feature | Value |
|-------------------------|----------------------------|
| Product weight | 2225 g |
| Alternative connections | See product drawing |
| Pneumatic connection | G1/8 |
| 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 |