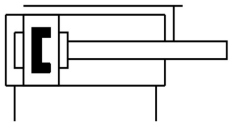
# Guided actuator
# DFM-20-50-P-A-KF

Part number: 170919





## Data sheet

| Feature | Value |
|---|---|
| Distance of centre of gravity of payload to yoke plate xs | 50 mm |
| Max. static moment Mx | 29.58 Nm |
| Max. static moment My | 18.87 Nm |
| Max. permissible torque load Mx as a function of the stroke | 4.23 Nm |
| Max. force Fz static | 1020 N |
| Max. force Fy static | 1020 N |
| Center of gravity of the moving mass as a function of the stroke | 38.5 mm |
| Max. static moment Mz | 18.87 Nm |
| Max. force Fy | 817 N |
| Max. force Fz | 817 N |
| Max. torque My | 15.11 Nm |
| Max. torque Mz | 15.11 Nm |
| Stroke | 50 mm |
| Piston diameter | 20 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 | 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 |
| Ambient temperature | -5 °C ... 60 °C |
| Impact energy in the end positions | 0.2 J |
| Max. torque Mx | 23.69 Nm |
| Max. payload as a function of the stroke at defined distance xs | 102 N |
| Theoretical force at 6 bar, retracting | 141 N |
| Theoretical force at 6 bar, advancing | 188 N |
| Moving mass | 512 g |
| Product weight | 1064 g |

| Feature | Value |
|---|---|
| Alternative connections | See product drawing |
| Pneumatic connection | M5 |
| Note on materials | RoHS-compliant<br>Free of copper and PTFE |
| Cover material | Wrought aluminum alloy |
| Seals material | NBR |
| Housing material | Wrought aluminum alloy |
| Piston rod material | High-alloy stainless steel |