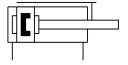
## **Guided actuator DFM-25-25-P-A-GF**Part number: 170848







## **Data sheet**

| Feature   | Value  |
|---|--|
| Distance of centre of gravity of payload to yoke plate xs       | 50 mm  |
| Stroke  | 25 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   |
| Operating pressure  | 0.15 MPa1 MPa  |
|   | 1.5 bar10 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 class   | Class 7 according to ISO 14644-1                                   |
| Ambient temperature   | -20 °C80 °C  |
| Impact energy in the end positions                              | 0,3 Nm   |
| 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  | 15.4 Nm  |
| Max. static moment My   | 15.4 Nm  |
| Max. torque Mz  | 15.4 Nm  |
| Max. static moment Mz   | 15.4 Nm  |
| Max. permissible torque load Mx as a function of the stroke     | 5.9 Nm   |
| Max. payload as a function of the stroke at defined distance xs | 116 N  |

| Feature                                | Value                      |
|--|----------------------------|
| Theoretical force at 6 bar, retracting | 247 N                      |
| Theoretical force at 6 bar, advancing  | 295 N                      |
| Moving mass                            | 669 g                      |
| Product weight                         | 1308 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 |