

# Guided actuators DFM-40-200-P-A-GF-F1A

Part number: 8118913

**FESTO**



## Data sheet

| Feature   | Value   |
|---|---|
| Distance of centre of gravity of payload to yoke plate xs | 50 mm   |
| Stroke  | 200 mm  |
| Piston diameter   | 40 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  | 0.15 MPa...1 MPa<br>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)                          | 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 |
| Cleanroom class   | Class 7 according to ISO 14644-1  |
| Ambient temperature                                       | -20 °C...80 °C  |
| Impact energy in the end positions                        | 0.7 Nm  |
| Max. force Fy   | 1227 N  |
| Max. force Fy static                                      | 1227 N  |
| Max. force Fz   | 1227 N  |
| Max. force Fz static                                      | 1227 N  |
| Max. torque Mx  | 53.97 Nm  |

| Feature   | Value                      |
|---|----------------------------|
| Max. static moment Mx   | 53.97 Nm                   |
| Max. torque My  | 47.84 Nm                   |
| Max. static moment My   | 47.84 Nm                   |
| Max. torque Mz  | 47.84 Nm                   |
| Max. static moment Mz   | 47.84 Nm                   |
| Max. permissible torque load Mx as a function of the stroke     | 6.23 Nm                    |
| Max. payload as a function of the stroke at defined distance xs | 127 N                      |
| Theoretical force at 6 bar, retracting                          | 686 N                      |
| Theoretical force at 6 bar, advancing                           | 754 N                      |
| Moving mass   | 2411 g                     |
| Product weight  | 5437 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 |