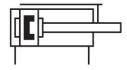
## **Guided actuators** DFM-63-50-P-A-KF-F1A Part number: 8118955

**FESTO** 





## **Data sheet**

| Feature   | Value   |
|---|---|
| Distance of centre of gravity of payload to yoke plate xs | 50 mm   |
| Stroke  | 50 mm   |
| Piston diameter   | 63 mm   |
| Drive unit operating mode                                 | Yoke  |
| Cushioning  | Elastic cushioning rings/pads at both ends  |
| Mounting position   | Any   |
| Guide   | Recirculating ball bearing 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 MPa1 MPa<br>1 bar10 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                                       | -5 °C60 °C  |
| Impact energy in the end positions                        | 1.3 Nm  |
| Max. force Fy   | 1487 N  |
| Max. force Fy static                                      | 1600 N  |
| Max. force Fz   | 1487 N  |
| Max. force Fz static                                      | 1600 N  |
| Max. torque Mx  | 92.97 Nm  |
| Max. static moment Mx                                     | 100 Nm  |

| Feature  | Value                      |
|--|----------------------------|
| Max. torque My   | 31.98 Nm                   |
| Max. static moment My  | 34.4 Nm                    |
| Max. torque Mz   | 31.98 Nm                   |
| Max. static moment Mz  | 34.4 Nm                    |
| Max. permissible torque load Mx as a function of the stroke      | 17.62 Nm                   |
| Max. payload as a function of the stroke at defined distance xs  | 202 N                      |
| Theoretical force at 6 bar, retracting                           | 1750 N                     |
| Theoretical force at 6 bar, advancing                            | 1870 N                     |
| Moving mass  | 2413 g                     |
| Product weight   | 4959 g                     |
| Center of gravity of the moving mass as a function of the stroke | 35.8 mm                    |
| 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 |