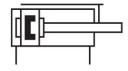
## Guided drive DFM-12-40-P-A-GF-F1A Part number: 8118627





## **Data sheet**

| Feature  | Value  |
|--|--|
| Distance from centre of gravity of load to yoke plate xs | 25 mm  |
| Stroke   | 40 mm  |
| Piston diameter  | 12 mm  |
| Operating mode, drive unit                               | Yoke   |
| Cushioning   | Elastic cushioning rings/plates at both ends   |
| Mounting position  | optional   |
| Guide  | Plain-bearing guide  |
| Design   | Guidance   |
| Position detection                                       | Via proximity switch   |
| Variants   | Metals with copper, zinc or nickel by mass as main constituent are<br>excluded from use. Exceptions are nickel in steel, chemically nickel-<br>plated surfaces, printed circuit boards, cables, electrical plug connectors<br>and coils.   |
| Operating pressure                                       | 0.2 MPa1 MPa<br>2 bar10 bar  |
| Max. speed   | 0.8 m/s  |
| Mode of operation  | Double-acting  |
| Operating medium   | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Note on operating and pilot medium                       | Lubricated operation possible (in which case lubricated operation will always be required)   |
| 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 the internal product definition from Festo<br>for use in battery production:Metals with more than 1% by mass of<br>copper, zinc or nickel are excluded from use.The exceptions are nickel in<br>steel, chemically nickel-plated surfaces, printed circuit boards, cables,<br>electrical plug connectors and coils |
| Cleanroom class  | Class 7 according to ISO 14644-1   |
| Ambient temperature                                      | -20 °C80 °C  |
| Impact energy in end positions                           | 0.07 Nm  |
| Max. force Fy  | 240 N  |
| Max. force Fy static                                     | 240 N  |
| Max. force Fz  | 240 N  |
| Max. force Fz static                                     | 240 N  |

## **FESTO**

| Feature  | Value                      |
|--|----------------------------|
| Max. moment Mx   | 4.92 Nm                    |
| Max. torque Mx static  | 4.92 Nm                    |
| Max. moment My   | 3.74 Nm                    |
| Max. torque My static  | 3.74 Nm                    |
| Max. moment Mz   | 3.74 Nm                    |
| Max. torque Mz static  | 3.74 Nm                    |
| Max. permissible torque load Mx as a function of stroke          | 0.81 Nm                    |
| Max. effective load dependent upon stroke at defined distance xs | 31 N                       |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke      | 51 N                       |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke     | 68 N                       |
| Moving mass  | 232 g                      |
| Product weight   | 497 g                      |
| alternative connections  | See product drawing        |
| Pneumatic connection   | M5                         |
| Note on materials  | RoHS-compliant             |
| Material cover   | Wrought aluminium alloy    |
| Material seals   | NBR                        |
| Material housing   | Wrought aluminium alloy    |
| Material piston rod  | High-alloy stainless steel |