

# Guided drive DFM-40-80-P-A-GF-F1A

Part number: 8118909

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Distance from centre of gravity of load to yoke plate xs | 50 mm  |
| Stroke   | 80 mm  |
| Piston diameter  | 40 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 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 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       | Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed 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 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. moment Mx   | 53.97 Nm   |

| <b>Feature</b>   | <b>Value</b>               |
|--|----------------------------|
| Max. torque Mx static  | 53.97 Nm                   |
| Max. moment My   | 35.57 Nm                   |
| Max. torque My static  | 35.57 Nm                   |
| Max. moment Mz   | 35.57 Nm                   |
| Max. torque Mz static  | 35.57 Nm                   |
| Max. permissible torque load Mx as a function of stroke          | 8.98 Nm                    |
| Max. effective load dependent upon stroke at defined distance xs | 166 N                      |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke      | 686 N                      |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke     | 754 N                      |
| Moving mass  | 1629 g                     |
| Product weight   | 3261 g                     |
| alternative connections  | See product drawing        |
| Pneumatic connection   | G1/8                       |
| 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 |