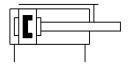
## Guided drive DFM-16-100-P-A-KF-F1A

Part number: 8118837



## 

## **Data sheet**

| Feature  | Value   |
|--|---|
| Distance from centre of gravity of load to yoke plate xs | 50 mm   |
| Stroke   | 100 mm  |
| Piston diameter  | 16 mm   |
| Operating mode, drive unit                               | Yoke  |
| Cushioning   | Elastic cushioning rings/plates at both ends  |
| Mounting position  | optional  |
| Guide  | Recirculating ball bearing guide  |
| Design   | Guidance  |
| Position detection                                       | Via proximity switch  |
| Variants   | Metals with copper, zinc or nickel as main constituent are excluded from<br>use. Exceptions are nickel in steel, chemically nickel-plated surfaces,<br>printed circuit boards, cables, electrical plug connectors 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       | Metals with more than 1% copper, zinc or nickel by mass are excluded<br>from use. Exceptions are nickel in steel, chemically nickel-plated<br>surfaces, printed circuit boards, cables, electrical plug connectors and<br>coils |
| Cleanroom class  | Class 7 according to ISO 14644-1  |
| Ambient temperature                                      | -5 °C60 °C  |
| Impact energy in end positions                           | 0,15 Nm   |
| Max. force Fy  | 778 N   |
| Max. force Fy static                                     | 830 N   |
| Max. force Fz  | 778 N   |
| Max. force Fz static                                     | 830 N   |
| Max. moment Mx   | 17.9 Nm   |

## **FESTO**

| Feature  | Value                      |
|--|----------------------------|
| Max. torque Mx static  | 19.09 Nm                   |
| Max. moment My   | 10.5 Nm                    |
| Max. torque My static  | 11.2 Nm                    |
| Max. moment Mz   | 10.5 Nm                    |
| Max. torque Mz static  | 11.2 Nm                    |
| Max. permissible torque load Mx as a function of stroke          | 1.77 Nm                    |
| Max. effective load dependent upon stroke at defined distance xs | 58 N                       |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke      | 90 N                       |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke     | 121 N                      |
| Moving mass  | 392 g                      |
| Product weight   | 982 g                      |
| Centre of gravity of moving mass as a function of stroke         | 56.5 mm                    |
| 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 |