

# Guided drive DFM-40-100-P-A-KF

Part number: 170942

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Distance from centre of gravity of load to yoke plate xs         | 50 mm  |
| Stroke   | 100 mm   |
| Piston diameter  | 40 mm  |
| Operating mode, drive unit                                       | Yoke   |
| Cushioning   | Elastic cushioning rings/plates at both ends   |
| Mounting position  | Any  |
| Guide  | Recirculating ball bearing guide   |
| Design   | Guidance   |
| Position detection   | Via proximity switch   |
| Symbol   | 00991737   |
| Operating pressure   | 0.15 MPa ... 1 MPa   |
| Operating pressure   | 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  |
| Cleanroom suitability, measured according to ISO 14644-14        | Class 6 according to ISO 14644-1   |
| Ambient temperature  | -5 °C ... 60 °C  |
| Impact energy in end positions                                   | 0.7 J  |
| Max. force Fy  | 1130 N   |
| Max. force Fy static   | 1260 N   |
| Max. force Fz  | 1130 N   |
| Max. force Fz static   | 1260 N   |
| Max. moment Mx   | 49.74 Nm   |
| Max. torque Mx static  | 55.44 Nm   |
| Max. moment My   | 28.83 Nm   |
| Max. torque My static  | 32.13 Nm   |
| Max. moment Mz   | 28.83 Nm   |
| Max. torque Mz static  | 32.13 Nm   |
| Max. permissible torque load Mx as a function of stroke          | 7.74 Nm  |
| Max. effective load dependent upon stroke at defined distance xs | 138 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  |

| <b>Feature</b>   | <b>Value</b>               |
|--|----------------------------|
| Moving mass  | 1433 g                     |
| Product weight   | 3265 g                     |
| Centre of gravity of moving mass as a function of stroke | 62.1 mm                    |
| 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 |