

# Guided drive DFM-50-160-P-A-GF

Part number: 170876

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Distance from centre of gravity of load to yoke plate xs         | 50 mm  |
| Stroke   | 160 mm   |
| Piston diameter  | 50 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   |
| Symbol   | 00991737   |
| Operating pressure   | 0.1 MPa ... 1 MPa  |
| Operating pressure   | 1 bar ... 10 bar   |
| Max. speed   | 0.6 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                                   | 1 - Low corrosion stress   |
| LABS (PWIS) conformity   | VDMA24364-B1/B2-L  |
| Cleanroom class  | Class 6 according to ISO 14644-1   |
| Ambient temperature  | -20 °C ... 80 °C   |
| Impact energy in end positions                                   | 1 J  |
| Max. force Fy  | 1533 N   |
| Max. force Fy static   | 1533 N   |
| Max. force Fz  | 1533 N   |
| Max. force Fz static   | 1533 N   |
| Max. moment Mx   | 84.33 Nm   |
| Max. torque Mx static  | 84.33 Nm   |
| Max. moment My   | 69.77 Nm   |
| Max. torque My static  | 69.77 Nm   |
| Max. moment Mz   | 69.77 Nm   |
| Max. torque Mz static  | 69.77 Nm   |
| Max. permissible torque load Mx as a function of stroke          | 12.43 Nm   |
| Max. effective load dependent upon stroke at defined distance xs | 200 N  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke      | 1057 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke     | 1178 N   |

| <b>Feature</b>          | <b>Value</b>               |
|-------------------------|----------------------------|
| Moving mass             | 3569 g                     |
| Product weight          | 7205 g                     |
| alternative connections | See product drawing        |
| Pneumatic connection    | G1/4                       |
| 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 |