

# Guided drive DFM-12-40-P-A-GF

Part number: 170828

FESTO



 [General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Distance of centre of gravity of payload to yoke plate xs       | 25 mm  |
| Stroke  | 40 mm  |
| Piston diameter   | 12 mm  |
| Drive unit operating mode                                       | Yoke   |
| Cushioning  | Elastic cushioning rings/pads at both ends                         |
| Mounting position   | Any  |
| Guide   | Sliding guide  |
| Structural design   | Guide  |
| Position sensing  | For proximity sensor   |
| Symbol  | 00991737   |
| Operating pressure  | 0.2 MPa ... 1 MPa  |
| Operating pressure  | 2 bar ... 10 bar   |
| Max. speed  | 0.8 m/s  |
| Mode of operation   | Double-acting  |
| Operating medium  | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media                        | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)                                | 1 - Low 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   | -20 °C ... 80 °C   |
| Impact energy in the end positions                              | 0.07 J   |
| Max. force Fy   | 240 N  |
| Max. force Fy static  | 240 N  |
| Max. force Fz   | 240 N  |
| Max. force Fz static  | 240 N  |
| Max. torque Mx  | 4.92 Nm  |
| Max. static moment Mx   | 4.92 Nm  |
| Max. torque My  | 3.74 Nm  |
| Max. static moment My   | 3.74 Nm  |
| Max. torque Mz  | 3.74 Nm  |
| Max. static moment Mz   | 3.74 Nm  |
| Max. permissible torque load Mx as a function of the stroke     | 0.81 Nm  |
| Max. payload as a function of the stroke at defined distance xs | 31 N   |
| Theoretical force at 6 bar, retracting                          | 51 N   |
| Theoretical force at 6 bar, advancing                           | 68 N   |
| Moving mass   | 232 g  |

| <b>Feature</b>          | <b>Value</b>               |
|-------------------------|----------------------------|
| Product weight          | 497 g                      |
| Alternative connections | See product drawing        |
| Pneumatic connection    | M5                         |
| Note on materials       | RoHS-compliant             |
| Cover material          | Wrought aluminum alloy     |
| Seals material          | NBR                        |
| Housing material        | Wrought aluminum alloy     |
| Piston rod material     | High-alloy stainless steel |