

# Guided drive DFM-12-10-P-A-GF

Part number: 170824

**FESTO**



## Data sheet

| Feature                                                         | Value                                                              |
|-----------------------------------------------------------------|--------------------------------------------------------------------|
| Distance of centre of gravity of payload to yoke plate xs       | 25 mm                                                              |
| Stroke                                                          | 10 mm                                                              |
| Piston diameter                                                 | 12 mm                                                              |
| Drive unit operating mode                                       | Yoke                                                               |
| Cushioning                                                      | Elastic cushioning rings/pads at both ends                         |
| Mounting position                                               | Any                                                                |
| Guide                                                           | Plain-bearing guide                                                |
| Structural design                                               | Guide                                                              |
| Position sensing                                                | Via proximity switch                                               |
| Operating pressure                                              | 0.2 MPa...1 MPa<br>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 Nm                                                            |
| 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                                                  | 2.06 Nm                                                            |
| Max. static moment My                                           | 2.06 Nm                                                            |
| Max. torque Mz                                                  | 2.06 Nm                                                            |
| Max. static moment Mz                                           | 2.06 Nm                                                            |
| Max. permissible torque load Mx as a function of the stroke     | 0.92 Nm                                                            |
| Max. payload as a function of the stroke at defined distance xs | 29 N                                                               |

| Feature                                | Value                      |
|----------------------------------------|----------------------------|
| Theoretical force at 6 bar, retracting | 51 N                       |
| Theoretical force at 6 bar, advancing  | 68 N                       |
| Moving mass                            | 172 g                      |
| Product weight                         | 344 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 |