

# Guided drive DFM-6-10-P-A-GF

Part number: 4149945

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                                                         | Value                                                              |
|-----------------------------------------------------------------|--------------------------------------------------------------------|
| Distance of centre of gravity of payload to yoke plate xs       | 10 mm                                                              |
| Stroke                                                          | 10 mm                                                              |
| Piston diameter                                                 | 6 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 ... 0.8 MPa                                                |
| Operating pressure                                              | 2 bar ... 8 bar                                                    |
| Max. speed                                                      | 1.3 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 class                                                 | Class 6 according to ISO 14644-1                                   |
| Ambient temperature                                             | -10 °C ... 60 °C                                                   |
| Impact energy in the end positions                              | 0.012 J                                                            |
| Max. permissible torque load Mx as a function of the stroke     | 0.008 Nm                                                           |
| Max. payload as a function of the stroke at defined distance xs | 0.85 N                                                             |
| Theoretical force at 6 bar, retracting                          | 13 N                                                               |
| Theoretical force at 6 bar, advancing                           | 17 N                                                               |
| Torsional backlash                                              | 0.1 deg                                                            |
| Moving mass                                                     | 9 g                                                                |
| Product weight                                                  | 33 g                                                               |
| Pneumatic connection                                            | M3                                                                 |
| Note on materials                                               | RoHS-compliant                                                     |
| Cover material                                                  | High-alloy stainless steel                                         |
| Seals material                                                  | NBR                                                                |
| Material of dynamic seals                                       | HNBR                                                               |
| End plate material                                              | Wrought aluminum alloy, anodized                                   |
| Guide rod material                                              | High-alloy stainless steel                                         |
| Housing material                                                | Wrought aluminum alloy, anodized                                   |

| Feature             | Value                      |
|---------------------|----------------------------|
| Piston rod material | High-alloy stainless steel |