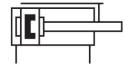
## **Guided drive** DGRC-GF-12-10-PA Part number: 8218182







## **Data sheet**

| Feature   | Value  |
|---|--|
| Distance of centre of gravity of payload to yoke plate xs | 50 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   | Sliding guide  |
| Structural design   | Guide  |
| Position sensing  | For proximity sensor   |
| Protection against torsion/guide                          | Guide rod with yoke  |
| Operating pressure  | 0.2 MPa1 MPa<br>2 bar10 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)                          | 0 - No corrosion stress  |
| LABS (PWIS) conformity                                    | VDMA24364-B1/B2-L  |
| Suitability for the production of Li-ion batteries        | Suitable for battery production in accordance with Festo's internal definition in degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni |
| Ambient temperature                                       | -10 °C60 °C  |
| Impact energy in the end positions                        | 0.07 Nm  |
| Max. force Fy   | 187 N  |
| Max. force Fy static                                      | 187 N  |
| Max. force Fz   | 187 N  |
| Max. force Fz static                                      | 187 N  |
| Max. torque Mx  | 3.55 Nm  |
| Max. static moment Mx                                     | 3.55 Nm  |
| Max. torque My  | 2.2 Nm   |
| Max. static moment My                                     | 2.2 Nm   |
| Max. torque Mz  | 2.2 Nm   |

| Feature  | Value                            |
|--|----------------------------------|
| Max. static moment Mz  | 2.2 Nm                           |
| Max. permissible torque load Mx as a function of the stroke      | 0.91 Nm                          |
| Max. payload as a function of the stroke at defined distance xs  | 22.8 N                           |
| Theoretical force at 6 bar, retracting                           | 51 N                             |
| Theoretical force at 6 bar, advancing                            | 68 N                             |
| Torsional backlash   | 0.065 deg                        |
| Moving mass  | 85.2 g                           |
| Product weight   | 173.8 g                          |
| Basic weight with 0 mm stroke                                    | 88.6 g                           |
| Center of gravity of the moving mass as a function of the stroke | 18.5 mm                          |
| Pneumatic connection   | M5                               |
| Note on materials  | RoHS-compliant                   |
| Cover material   | Wrought aluminum alloy           |
| Seals material   | NBR                              |
| Material of dynamic seals  | TPE-U(PU)                        |
| End plate material   | Wrought aluminum alloy, anodized |
| Guide rod material   | High-alloy steel                 |
| Housing material   | Wrought aluminum alloy, anodized |
| Piston rod material  | High-alloy steel                 |