

# Guided drive DGRC-GF-25-20-PA

Part number: 8218205

**FESTO**



## Data sheet

| Feature   | Value  |
|---|--|
| Distance of centre of gravity of payload to yoke plate xs | 50 mm  |
| Stroke  | 20 mm  |
| Piston diameter   | 25 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  | 0.15 MPa...1 MPa<br>1.5 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)                          | 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 °C...60 °C   |
| Impact energy in the end positions                        | 0.3 Nm   |
| Max. force Fy   | 663 N  |
| Max. force Fy static                                      | 663 N  |
| Max. force Fz   | 663 N  |
| Max. force Fz static                                      | 663 N  |
| Max. torque Mx  | 21.22 Nm   |
| Max. static moment Mx                                     | 21.22 Nm   |
| Max. torque My  | 9.28 Nm  |
| Max. static moment My                                     | 9.28 Nm  |
| Max. torque Mz  | 9.28 Nm  |

| Feature  | Value                            |
|--|----------------------------------|
| Max. static moment Mz  | 9.28 Nm                          |
| Max. permissible torque load Mx as a function of the stroke      | 4.74 Nm                          |
| Max. payload as a function of the stroke at defined distance xs  | 82 N                             |
| Theoretical force at 6 bar, retracting                           | 247 N                            |
| Theoretical force at 6 bar, advancing                            | 295 N                            |
| Torsional backlash   | 0.045 deg                        |
| Moving mass  | 247.5 g                          |
| Product weight   | 476.8 g                          |
| Basic weight with 0 mm stroke                                    | 229.3 g                          |
| Center of gravity of the moving mass as a function of the stroke | 23.4 mm                          |
| Pneumatic connection   | G1/8                             |
| 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                 |