

# Guided drive DGRF-C-GF-63- -

Part number: 562221

FESTO



 General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature                                  | Value                                                                                             |
|------------------------------------------|---------------------------------------------------------------------------------------------------|
| Stroke                                   | 10 mm ... 400 mm                                                                                  |
| Piston diameter                          | 63 mm                                                                                             |
| Drive unit operating mode                | Yoke                                                                                              |
| Cushioning                               | Self-adjusting pneumatic end-position cushioning<br>Pneumatic cushioning, adjustable at both ends |
| Mounting position                        | Any                                                                                               |
| Guide                                    | Sliding guide                                                                                     |
| Structural design                        | Guide                                                                                             |
| Position sensing                         | For proximity sensor                                                                              |
| Variants                                 | For unlubricated operation                                                                        |
| Operating pressure                       | 0.15 MPa ... 1.2 MPa                                                                              |
| Operating pressure                       | 1.5 bar ... 12 bar                                                                                |
| 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)         | 3 - High corrosion stress                                                                         |
| LABS (PWIS) conformity                   | VDMA24364-B2-L                                                                                    |
| For use in the food industry             | See supplementary material information                                                            |
| Ambient temperature                      | -20 °C ... 80 °C                                                                                  |
| Impact energy in the end positions       | 1.3 J                                                                                             |
| Cushioning length                        | 22 mm                                                                                             |
| Theoretical force at 6 bar, retracting   | 1682 N                                                                                            |
| Theoretical force at 6 bar, advancing    | 1870 N                                                                                            |
| Torsional backlash                       | 0.061 deg                                                                                         |
| Moving mass at 0 mm stroke               | 2114 g                                                                                            |
| Additional moving mass per 10 mm stroke  | 101.7 g                                                                                           |
| Basic weight with 0 mm stroke            | 6405 g                                                                                            |
| Additional weight per 10 mm stroke       | 142.8 g                                                                                           |
| Type of mounting                         | With through-hole<br>With internal thread                                                         |
| Pneumatic connection                     | G3/8                                                                                              |
| Note on materials                        | RoHS-compliant                                                                                    |
| Cover material                           | Die-cast aluminum<br>Coated                                                                       |
| Guide rod material                       | High-alloy stainless steel                                                                        |

| Feature                     | Value                      |
|-----------------------------|----------------------------|
| Housing material            | Wrought aluminum alloy     |
| Piston rod material         | High-alloy stainless steel |
| Material of cylinder barrel | Wrought aluminum alloy     |