

# Linear actuator DGC-18- -

Part number: 532446

FESTO



 General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature                                           | Value                                                                                                                                                                                                     |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stroke                                            | 1 mm ... 3000 mm                                                                                                                                                                                          |
| Piston diameter                                   | 18 mm                                                                                                                                                                                                     |
| Cushioning                                        | Elastic cushioning rings/pads at both ends<br>Pneumatic cushioning, adjustable at both ends<br>Pneumatic shock absorber, hard characteristic curve<br>Pneumatic shock absorber, soft characteristic curve |
| Mounting position                                 | Any                                                                                                                                                                                                       |
| Guide                                             | Sliding guide<br>Basic guide<br>Recirculating ball bearing guide                                                                                                                                          |
| Position sensing                                  | For proximity sensor                                                                                                                                                                                      |
| Variants                                          | Additional slide, standard, on left<br>Additional slide, standard on right                                                                                                                                |
| Operating pressure                                | 0.2 MPa ... 0.8 MPa                                                                                                                                                                                       |
| Operating pressure                                | 2 bar ... 8 bar                                                                                                                                                                                           |
| Mode of operation                                 | Double-acting                                                                                                                                                                                             |
| CE marking (see declaration of conformity)        | as per EU explosion protection directive (ATEX)                                                                                                                                                           |
| UKCA marking (see declaration of conformity)      | acc. to UK EX instructions                                                                                                                                                                                |
| Explosion protection certification outside the EU | EPL Dc (GB)<br>EPL Gb (GB)                                                                                                                                                                                |
| Explosion prevention and protection               | Zone 1 (ATEX)<br>Zone 1 (UKEX)<br>Zone 2 (ATEX)<br>Zone 22 (ATEX)<br>Zone 22 (UKEX)                                                                                                                       |
| ATEX category gas                                 | II 2G                                                                                                                                                                                                     |
| ATEX category for dust                            | II 3D                                                                                                                                                                                                     |
| Type of ignition protection for gas               | Ex h IIC T4 Gb X                                                                                                                                                                                          |
| Type of (ignition) protection for dust            | Ex h IIIC T120°C Dc X                                                                                                                                                                                     |
| Explosive ambient temperature                     | -10°C ≤ Ta ≤ +60°C                                                                                                                                                                                        |
| Operating medium                                  | Compressed air as per ISO 8573-1:2010 [7:-:-]                                                                                                                                                             |
| Information on operating and pilot media          | Operation with oil lubrication possible (required for further use)                                                                                                                                        |
| Corrosion resistance class (CRC)                  | 1 - Low corrosion stress<br>2 - Moderate corrosion stress                                                                                                                                                 |
| LABS (PWIS) conformity                            | VDMA24364-B1/B2-L                                                                                                                                                                                         |
| For use in the food industry                      | See supplementary material information                                                                                                                                                                    |
| Ambient temperature                               | -10 °C ... 60 °C                                                                                                                                                                                          |
| Cushioning length                                 | 16.5 mm                                                                                                                                                                                                   |

| Feature                                | Value                  |
|----------------------------------------|------------------------|
| Theoretical force at 6 bar, retracting | 153 N                  |
| Theoretical force at 6 bar, advancing  | 153 N                  |
| Alternative connections                | See product drawing    |
| Type of mounting                       | With accessories       |
| Note on materials                      | RoHS-compliant         |
| Cover material                         | Wrought aluminum alloy |
| Seals material                         | NBR<br>TPE-U(PU)       |