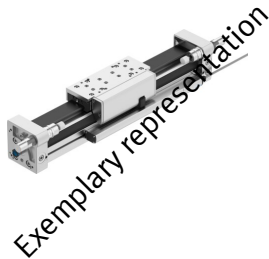


# Linear actuator DGCI-40- -

Part number: 544428

FESTO



 General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| Feature                                           | Value                                                                                                      |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Stroke                                            | 100 mm ... 2000 mm                                                                                         |
| Stroke, servopneumatic positioning                | 100 mm ... 2000 mm                                                                                         |
| Soft Stop stroke                                  | 100 mm ... 2000 mm                                                                                         |
| Stroke reduction in the end positions             | 35 mm                                                                                                      |
| Shortest positioning stroke                       | 3% of max. stroke<br>Maximum 20 mm, however                                                                |
| Piston diameter                                   | 40 mm                                                                                                      |
| Cushioning                                        | Pneumatic shock absorber, hard characteristic curve<br>Pneumatic shock absorber, soft characteristic curve |
| Mounting position                                 | Any                                                                                                        |
| Guide                                             | Recirculating ball bearing guide                                                                           |
| Position sensing                                  | With linear potentiometer attached                                                                         |
| Variants                                          | Additional slide, standard, on left<br>Additional slide, standard on right                                 |
| Operating pressure                                | 0.15 MPa ... 0.8 MPa                                                                                       |
| Operating pressure                                | 1.5 bar ... 8 bar                                                                                          |
| Operating pressure                                | 21.75 psi ... 116 psi                                                                                      |
| Mode of operation                                 | Double-acting                                                                                              |
| Certification                                     | RCM compliance mark                                                                                        |
| CE marking (see declaration of conformity)        | As per EU EMC directive<br>as per EU explosion protection directive (ATEX)<br>As per EU RoHS directive     |
| UKCA marking (see declaration of conformity)      | To UK instructions for EMC<br>acc. to UK EX instructions<br>To UK RoHS instructions                        |
| Explosion protection certification outside the EU | EPL Dc (GB)<br>EPL Gc (GB)                                                                                 |
| Explosion prevention and protection               | Zone 2 (ATEX)<br>Zone 2 (UKEX)<br>Zone 22 (ATEX)<br>Zone 22 (UKEX)                                         |
| ATEX category gas                                 | II 3G                                                                                                      |
| ATEX category for dust                            | II 3D                                                                                                      |
| Type of ignition protection for gas               | Ex ec IIC T4 Gc X                                                                                          |
| Type of (ignition) protection for dust            | Ex tc IIIC T120°C Dc X                                                                                     |
| Explosive ambient temperature                     | 0°C ≤ Ta ≤ +50°C                                                                                           |
| Operating medium                                  | Compressed air as per ISO 8573-1:2010 [6:4:4]                                                              |
| Information on operating and pilot media          | Operation with oil lubrication not possible                                                                |

| Feature                                | Value                                                                                |
|----------------------------------------|--------------------------------------------------------------------------------------|
| Corrosion resistance class (CRC)       | 0 - No corrosion stress<br>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                                                                     |
| Theoretical force at 6 bar, retracting | 754 N                                                                                |
| Theoretical force at 6 bar, advancing  | 754 N                                                                                |
| Alternative connections                | See product drawing                                                                  |
| Type of mounting                       | With accessories                                                                     |
| Pneumatic connection                   | G1/4                                                                                 |
| Pneumatic port on clamping unit        | M5                                                                                   |
| Cover material                         | Wrought aluminum alloy                                                               |
| Seals material                         | NBR<br>TPE-U(PU)                                                                     |