

# Mini slide DGST-10-100-E1A

Part number: 8078845

FESTO



## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Stroke                                   | 100 mm                                                             |
| Piston diameter                          | 10 mm                                                              |
| Type code                                | DGST                                                               |
| Drive unit operating mode                | Yoke                                                               |
| Cushioning                               | Elastomer cushioning, at both ends, stroke not adjustable          |
| Mounting position                        | Any                                                                |
| Guide                                    | Recirculating ball bearing guide                                   |
| Structural design                        | Twin piston<br>Yoke<br>Piston rod<br>Slide                         |
| Position sensing                         | For proximity sensor                                               |
| Symbol                                   | 00991249                                                           |
| Operating pressure                       | 0.1 MPa ... 0.8 MPa                                                |
| Operating pressure                       | 1 bar ... 8 bar                                                    |
| Operating pressure                       | 14.5 psi ... 116 psi                                               |
| Max. speed                               | 0.5 m/s                                                            |
| Repetition accuracy                      | ≤ 0.3 mm                                                           |
| 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)         | 1 - Low corrosion stress                                           |
| Ambient temperature                      | -10 °C ... 60 °C                                                   |
| Impact energy in the end positions       | 0.05 J                                                             |
| Cushioning length                        | 1.6 mm                                                             |
| Max. force F <sub>y</sub>                | 530 N                                                              |
| Max. force F <sub>z</sub>                | 530 N                                                              |
| Max. torque M <sub>x</sub>               | 6 Nm                                                               |
| Max. torque M <sub>y</sub>               | 6 Nm                                                               |
| Max. torque M <sub>z</sub>               | 6 Nm                                                               |
| Theoretical force at 6 bar, retracting   | 79 N                                                               |
| Theoretical force at 6 bar, advancing    | 94 N                                                               |
| Moving mass                              | 269 g                                                              |
| Product weight                           | 561 g                                                              |
| Type of mounting                         | With through-hole                                                  |
| Pneumatic connection                     | M5                                                                 |

| Feature             | Value                                     |
|---------------------|-------------------------------------------|
| Note on materials   | Free of copper and PTFE<br>RoHS-compliant |
| Cover material      | Wrought aluminum alloy                    |
| Seals material      | HNBR                                      |
| Guide material      | POM<br>TPE-E<br>High-alloy steel          |
| Housing material    | Wrought aluminum alloy                    |
| Piston rod material | High-alloy stainless steel                |