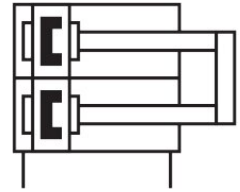


# Mini slide DGST-20-50-E1A

Part number: 8078866

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                                   | Value                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------|
| Stroke                                                    | 50 mm                                                              |
| Piston diameter                                           | 20 mm                                                              |
| Drive unit operating mode                                 | Yoke                                                               |
| Cushioning                                                | Elastomer cushioning, at both ends, stroke not adjustable          |
| Mounting position                                         | Any                                                                |
| Guide                                                     | Ball bearing cage guide                                            |
| Structural design                                         | Yoke<br>Piston rod<br>Slide                                        |
| Position sensing                                          | Via proximity switch                                               |
| 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                                           |
| LABS (PWIS) conformity                                    | VDMA24364-B1/B2-L                                                  |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 6 according to ISO 14644-1                                   |
| Ambient temperature                                       | -10 °C ... 60 °C                                                   |
| Impact energy in the end positions                        | 0.2 J                                                              |
| Cushioning length                                         | 1 mm                                                               |
| Max. force F <sub>y</sub>                                 | 1080 N                                                             |
| Max. force F <sub>z</sub>                                 | 1080 N                                                             |
| Max. torque M <sub>x</sub>                                | 9 Nm                                                               |
| Max. torque M <sub>y</sub>                                | 10 Nm                                                              |
| Max. torque M <sub>z</sub>                                | 10 Nm                                                              |
| Theoretical force at 6 bar, retracting                    | 317 N                                                              |
| Theoretical force at 6 bar, advancing                     | 377 N                                                              |
| Moving mass                                               | 549 g                                                              |
| Product weight                                            | 1196 g                                                             |

| Feature              | Value                            |
|----------------------|----------------------------------|
| Type of mounting     | With through-hole                |
| Pneumatic connection | G1/8                             |
| Note on materials    | 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       |