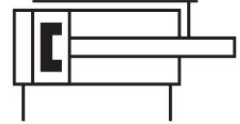


# Mini slide DGSL-16-50-Y3A

Part number: 544001

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                                    | Value                                                              |
|--------------------------------------------|--------------------------------------------------------------------|
| Stroke                                     | 50 mm                                                              |
| Adjustable end-position range/front length | 36.5 mm                                                            |
| Adjustable end-position range/rear length  | 38.5 mm                                                            |
| Piston diameter                            | 20 mm                                                              |
| Drive unit operating mode                  | Yoke                                                               |
| Cushioning                                 | Progressive pneumatic shock absorbers at both ends                 |
| Mounting position                          | Any                                                                |
| Guide                                      | Ball bearing cage guide                                            |
| Structural design                          | Yoke<br>Piston<br>Piston rod<br>Slide                              |
| Position sensing                           | For proximity sensor                                               |
| Symbol                                     | 00991263                                                           |
| Operating pressure                         | 0.1 MPa ... 0.8 MPa                                                |
| Operating pressure                         | 1 bar ... 8 bar                                                    |
| Max. speed                                 | 0.8 m/s                                                            |
| Repetition accuracy                        | ±0.01 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)           | 0 - No corrosion stress                                            |
| LABS (PWIS) conformity                     | VDMA24364-B1/B2-L                                                  |
| Cleanroom class                            | Class 7 according to ISO 14644-1                                   |
| Ambient temperature                        | 0 °C ... 60 °C                                                     |
| Impact energy in the end positions         | 4 J                                                                |
| Cushioning length                          | 14 mm                                                              |
| Max. force Fy                              | 2780 N                                                             |
| Max. force Fz                              | 2780 N                                                             |
| Max. torque Mx                             | 40 Nm                                                              |
| Max. torque My                             | 25 Nm                                                              |
| Max. torque Mz                             | 25 Nm                                                              |
| Theoretical force at 6 bar, retracting     | 158 N                                                              |
| Theoretical force at 6 bar, advancing      | 188 N                                                              |
| Moving mass                                | 519 g                                                              |
| Product weight                             | 1211 g                                                             |

| Feature                 | Value                      |
|-------------------------|----------------------------|
| Alternative connections | See product drawing        |
| Type of mounting        | With through-hole          |
| Pneumatic connection    | M5                         |
| Note on materials       | RoHS-compliant             |
| Cover material          | Wrought aluminum alloy     |
| Seals material          | HNBR                       |
| Housing material        | Wrought aluminum alloy     |
| Piston rod material     | High-alloy stainless steel |