

# Mini slide DGSL-20-50-Y3A

Part number: 544025

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature   | Value  |
|---|--|
| Stroke  | 50 mm  |
| Adjustable end-position range/front length                | 44 mm  |
| Adjustable end-position range/rear length                 | 42 mm  |
| Piston diameter   | 25 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 suitability, measured according to ISO 14644-14 | Class 7 according to ISO 14644-1                                   |
| Ambient temperature                                       | 0 °C ... 60 °C   |
| Impact energy in the end positions                        | 7 J  |
| Cushioning length   | 17 mm  |
| Max. force F <sub>y</sub>                                 | 3816 N   |
| Max. force F <sub>z</sub>                                 | 3816 N   |
| Max. torque M <sub>x</sub>                                | 70 Nm  |
| Max. torque M <sub>y</sub>                                | 50 Nm  |
| Max. torque M <sub>z</sub>                                | 50 Nm  |
| Theoretical force at 6 bar, retracting                    | 247 N  |
| Theoretical force at 6 bar, advancing                     | 295 N  |
| Moving mass   | 858 g  |
| Product weight  | 2099 g   |

| <b>Feature</b>          | <b>Value</b>               |
|-------------------------|----------------------------|
| Alternative connections | See product drawing        |
| Type of mounting        | With through-hole          |
| Pneumatic connection    | G1/8                       |
| 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 |