

# Mini slide DGST-20-100-Y12A

Part number: 8085187

**FESTO**



## Data sheet

| Feature                                    | Value                                                              |
|--------------------------------------------|--------------------------------------------------------------------|
| Stroke                                     | 100 mm                                                             |
| Adjustable end-position range/front length | 27.7 mm                                                            |
| Adjustable end-position range/rear length  | 25.9 mm                                                            |
| Piston diameter                            | 20 mm                                                              |
| Drive unit operating mode                  | Yoke                                                               |
| Cushioning                                 | External hydraulic cushioning                                      |
| Mounting position                          | Any                                                                |
| Guide                                      | Ball bearing cage guide                                            |
| Structural design                          | Twin piston<br>Yoke<br>Piston rod<br>Slide                         |
| Position sensing                           | For proximity sensor                                               |
| Operating pressure                         | 0.1 MPa...0.8 MPa<br>1 bar...8 bar<br>14.5 psi...116 psi           |
| Max. speed                                 | 0.8 m/s                                                            |
| Repetition accuracy                        | <= 0.02 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 class                            | Class 6 according to ISO 14644-1                                   |
| Ambient temperature                        | -10 °C...60 °C                                                     |
| Impact energy in the end positions         | 3 J                                                                |
| Cushioning length                          | 8 mm                                                               |
| Max. force F <sub>y</sub>                  | 1160 N                                                             |
| Max. force F <sub>z</sub>                  | 1160 N                                                             |
| Max. torque M <sub>x</sub>                 | 18 Nm                                                              |
| Max. torque M <sub>y</sub>                 | 11 Nm                                                              |
| Max. torque M <sub>z</sub>                 | 11 Nm                                                              |

| Feature                                | Value                            |
|----------------------------------------|----------------------------------|
| Theoretical force at 6 bar, retracting | 317 N                            |
| Theoretical force at 6 bar, advancing  | 377 N                            |
| Moving mass                            | 947 g                            |
| Product weight                         | 2076 g                           |
| 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       |