

# Mini slide DGST-25-50-PA

Part number: 8085153

**FESTO**



## Data sheet

| Feature                                                   | Value                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------|
| Stroke                                                    | 50 mm                                                              |
| Adjustable end-position range/front length                | 47 mm                                                              |
| Adjustable end-position range/rear length                 | 45.4 mm                                                            |
| Piston diameter                                           | 25 mm                                                              |
| Drive unit operating mode                                 | Yoke                                                               |
| Cushioning                                                | Elastic cushioning rings/pads at both ends                         |
| Mounting position                                         | Any                                                                |
| Guide                                                     | Ball bearing cage guide                                            |
| Structural design                                         | Double piston<br>Yoke<br>Piston rod<br>Slide                       |
| Position sensing                                          | Via proximity switch                                               |
| 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                                       | <= 0.3 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                        | 0.45 J                                                             |
| Cushioning length                                         | 1.2 mm                                                             |
| Max. force Fy                                             | 1080 N                                                             |
| Max. force Fz                                             | 1080 N                                                             |
| Max. torque Mx                                            | 12 Nm                                                              |
| Max. torque My                                            | 11 Nm                                                              |
| Max. torque Mz                                            | 11 Nm                                                              |

| Feature                                | Value                            |
|----------------------------------------|----------------------------------|
| Theoretical force at 6 bar, retracting | 495 N                            |
| Theoretical force at 6 bar, advancing  | 589 N                            |
| Moving mass                            | 1033.5 g                         |
| Product weight                         | 2089 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       |