

# Mini slide DGST-20-40-PA

Part number: 8085142

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                    | Value  |
|--|--|
| Stroke                                     | 40 mm  |
| Adjustable end-position range/front length | 32.9 mm  |
| Adjustable end-position range/rear length  | 31.1 mm  |
| Piston diameter                            | 20 mm  |
| Drive unit operating mode                  | Yoke   |
| Cushioning                                 | Elastic cushioning rings/pads at both ends                         |
| Mounting position                          | Any  |
| Guide                                      | Ball bearing cage guide  |
| Structural design                          | Twin piston<br>Yoke<br>Piston rod<br>Slide                         |
| Position sensing                           | For proximity sensor   |
| 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                                 | 0.8 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 class                            | Class 6 according to ISO 14644-1                                   |
| Ambient temperature                        | -10 °C ... 60 °C   |
| Impact energy in the end positions         | 0.35 J   |
| Cushioning length                          | 1.2 mm   |
| Max. force F <sub>y</sub>                  | 930 N  |
| Max. force F <sub>z</sub>                  | 930 N  |
| Max. torque M <sub>x</sub>                 | 10 Nm  |
| Max. torque M <sub>y</sub>                 | 11 Nm  |
| Max. torque M <sub>z</sub>                 | 11 Nm  |
| Theoretical force at 6 bar, retracting     | 317 N  |
| Theoretical force at 6 bar, advancing      | 377 N  |

| <b>Feature</b>       | <b>Value</b>                     |
|----------------------|----------------------------------|
| Moving mass          | 570.5 g                          |
| Product weight       | 1200 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       |