

# Mini slide DGSL-20-150-PA

Part number: 544012

FESTO



## Data sheet

| Feature                                    | Value                                                              |
|--------------------------------------------|--------------------------------------------------------------------|
| Stroke                                     | 150 mm                                                             |
| Adjustable end-position range/front length | 94.5 mm                                                            |
| Adjustable end-position range/rear length  | 49.5 mm                                                            |
| Piston diameter                            | 25 mm                                                              |
| Type code                                  | DGSL                                                               |
| Drive unit operating mode                  | Yoke                                                               |
| Cushioning                                 | Elastic cushioning rings/pads 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                        | 0.3 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)           | 0 - No corrosion stress                                            |
| Ambient temperature                        | 0 °C ... 60 °C                                                     |
| Impact energy in the end positions         | 0.45 J                                                             |
| Cushioning length                          | 1.2 mm                                                             |
| Max. force F <sub>y</sub>                  | 4400 N                                                             |
| Max. force F <sub>z</sub>                  | 4400 N                                                             |
| Max. torque M <sub>x</sub>                 | 90 Nm                                                              |
| Max. torque M <sub>y</sub>                 | 80 Nm                                                              |
| Max. torque M <sub>z</sub>                 | 80 Nm                                                              |
| Theoretical force at 6 bar, retracting     | 247 N                                                              |
| Theoretical force at 6 bar, advancing      | 295 N                                                              |
| Moving mass                                | 1566 g                                                             |
| Product weight                             | 3784 g                                                             |
| Alternative connections                    | See product drawing                                                |

| Feature              | Value                                     |
|----------------------|-------------------------------------------|
| Type of mounting     | With through-hole                         |
| Pneumatic connection | G1/8                                      |
| Note on materials    | Free of copper and PTFE<br>RoHS-compliant |
| Cover material       | Wrought aluminum alloy                    |
| Seals material       | HNBR                                      |
| Housing material     | Wrought aluminum alloy                    |
| Piston rod material  | High-alloy stainless steel                |