

# Mini slide DGSL-10-20-P1A

Part number: 543950

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 20 mm  |
| Adjustable end position range/length front                   | 27.5 mm  |
| Adjustable end position range/length rear                    | 20 mm  |
| Piston diameter  | 12 mm  |
| Operating mode, drive unit                                   | Yoke   |
| Cushioning   | Elastic cushioning rings/pads at both ends with fixed stop                                 |
| Mounting position  | optional   |
| Guide  | Ball bearing cage guide  |
| Design   | Yoke<br>Piston<br>Piston rod<br>Slide  |
| Position detection   | Via proximity switch   |
| Symbol   | 00991263   |
| Operating pressure   | 0.15 MPa ... 0.8 MPa   |
| Operating pressure   | 1.5 bar ... 8 bar  |
| Max. speed   | 0.8 m/s  |
| Repetition accuracy  | ±0.01 mm   |
| Mode of operation  | Double-acting  |
| Operating medium   | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Note on operating and pilot medium                           | Lubricated operation possible (in which case lubricated operation will always be required) |
| 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 end positions                               | 0.04 J   |
| Cushioning length  | 3.4 mm   |
| Max. force F <sub>y</sub>                                    | 1003 N   |
| Max. force F <sub>z</sub>                                    | 1003 N   |
| Max. moment M <sub>x</sub>                                   | 15 Nm  |
| Max. moment M <sub>y</sub>                                   | 7 Nm   |
| Max. moment M <sub>z</sub>                                   | 7 Nm   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 51 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 68 N   |
| Moving mass  | 180 g  |
| Product weight   | 458 g  |

| <b>Feature</b>          | <b>Value</b>               |
|-------------------------|----------------------------|
| alternative connections | See product drawing        |
| Type of mounting        | With through-hole          |
| Pneumatic connection    | M5                         |
| Note on materials       | RoHS-compliant             |
| Material cover          | Wrought aluminium alloy    |
| Material seals          | HNBR                       |
| Material housing        | Wrought aluminium alloy    |
| Material piston rod     | High-alloy stainless steel |