

# Mini slide DGSL-20-80-Y3A

Part number: 544026

FESTO



## Data sheet

| Feature                                                   | Value                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------------|
| Stroke                                                    | 80 mm                                                              |
| Adjustable end-position range/front length                | 44 mm                                                              |
| Adjustable end-position range/rear length                 | 42 mm                                                              |
| Piston diameter                                           | 25 mm                                                              |
| Drive unit operating mode                                 | Yoke                                                               |
| Cushioning                                                | Progressive pneumatic shock absorbers at both ends                 |
| Mounting position                                         | Any                                                                |
| Guide                                                     | Ball bearing cage guide                                            |
| Structural design                                         | Yoke<br>Piston<br>Piston rod<br>Slide                              |
| Position sensing                                          | Via proximity switch                                               |
| Operating pressure                                        | 0.1 MPa...0.8 MPa<br>1 bar...8 bar                                 |
| Max. speed                                                | 0.8 m/s                                                            |
| Repetition accuracy                                       | ±0.01 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                                            |
| 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 the end positions                        | 7 Nm                                                               |
| Cushioning length                                         | 17 mm                                                              |
| Max. force Fy                                             | 4032 N                                                             |
| Max. force Fz                                             | 4032 N                                                             |
| Max. torque Mx                                            | 75 Nm                                                              |
| Max. torque My                                            | 50 Nm                                                              |
| Max. torque Mz                                            | 50 Nm                                                              |
| Theoretical force at 6 bar, retracting                    | 247 N                                                              |

| Feature                               | Value                      |
|---------------------------------------|----------------------------|
| Theoretical force at 6 bar, advancing | 295 N                      |
| Moving mass                           | 998 g                      |
| Product weight                        | 2403 g                     |
| Alternative connections               | See product drawing        |
| Type of mounting                      | With through-hole          |
| Pneumatic connection                  | G1/8                       |
| Note on materials                     | RoHS compliant             |
| Cover material                        | Wrought aluminum alloy     |
| Seals material                        | HNBR                       |
| Housing material                      | Wrought aluminum alloy     |
| Piston rod material                   | high-alloy stainless steel |