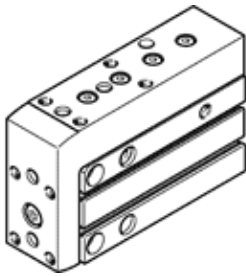


# mini slide DGSS-20-50-E1A

Part number: 8164084

FESTO



## Data sheet

| Feature  | Value   |
|--|---|
| Stroke   | 50 mm   |
| Size   | 20  |
| Piston diameter  | 20 mm   |
| Cushioning   | Elastomer cushioning, at both ends, stroke not adjustable                   |
| Assembly position  | Any   |
| Guide  | Recirculating ball bearing guide  |
| Design structure   | Yoke<br>Piston rod<br>Slide   |
| Position detection                                       | For proximity sensor  |
| Operating pressure MPa                                   | 0.1 ... 0.8 MPa   |
| Operating pressure                                       | 1 ... 8 bar<br>14.5 ... 116 psi   |
| Max. speed   | 0.5 m/s   |
| Repetition accuracy                                      | ≤ 0,3 mm  |
| Mode of operation  | double-acting   |
| Operating medium   | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                    |
| Note on operating and pilot medium                       | Lubricated operation possible (subsequently required for further operation) |
| Corrosion resistance classification CRC                  | 1 - Low corrosion stress  |
| PWIS conformity  | VDMA24364-C1-L  |
| RSBP classification to CD-0033                           | F1a   |
| Cleanroom class  | ISO class 6   |
| Ambient temperature                                      | -10 ... 60 °C   |
| Impact energy in end positions                           | 0.05 J  |
| Cushioning length  | 1 mm  |
| Max. force F <sub>y</sub>                                | 1,149 N   |
| Max. force F <sub>z</sub>                                | 1,149 N   |
| Max. torque M <sub>x</sub>                               | 7.5 Nm  |
| Max. torque M <sub>y</sub>                               | 3.7 Nm  |
| Max. torque M <sub>z</sub>                               | 3.7 Nm  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 158 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 188 N   |
| Moving mass  | 235 g   |
| Product weight   | 564 g   |
| Mounting type  | with through hole<br>with internal (female) thread                          |
| Pneumatic connection                                     | M5  |
| Materials note   | Conforms to RoHS  |
| Material cover   | Wrought Aluminium alloy   |
| Material seals   | NBR<br>PU   |
| Material of guide  | NBR<br>PA<br>High alloy steel   |
| Material housing   | Wrought Aluminium alloy   |
| Material piston rod                                      | High alloy steel, non-corrosive   |