

# Mini slide DGST-12-100-PA

Part number: 8085129  
★ Core product range

FESTO



## Data sheet

| Feature  | Value   |
|--|---|
| Stroke   | 100 mm  |
| Adjustable end position range/front length               | 22.1 mm   |
| Adjustable end position range/rear length                | 20.8 mm   |
| Piston diameter  | 12 mm   |
| Operating mode of drive unit                             | Yoke  |
| Cushioning   | P: Flexible cushioning rings/plates at both ends                            |
| Assembly position  | Any   |
| Guide  | Recirculating ball bearing guide  |
| Design structure   | twin piston<br>Yoke<br>Piston rod<br>Slide                                  |
| Position detection                                       | For proximity sensor  |
| Operating pressure MPa                                   | 0.1 ... 0.8 MPa   |
| Working pressure   | 1 ... 8 bar   |
| Operating pressure                                       | 14.5 ... 116 psi  |
| Max. speed   | 0.8 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-B1/B2-L   |
| Ambient temperature                                      | -10 ... 60 °C   |
| Impact energy in end positions                           | 0.12 J  |
| Cushioning length  | 1.3 mm  |
| Max. force F <sub>y</sub>                                | 620 N   |
| Max. force F <sub>z</sub>                                | 620 N   |
| Max. torque M <sub>x</sub>                               | 10 Nm   |
| Max. torque M <sub>y</sub>                               | 6.8 Nm  |
| Max. torque M <sub>z</sub>                               | 6.8 Nm  |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), retracting | 102 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance    | 136 N   |
| Moving mass  | 488 g   |
| Product weight   | 1,034 g   |
| Mounting type  | with through hole   |
| Pneumatic connection                                     | M5  |
| Materials note   | Conforms to RoHS  |
| Material cover   | Wrought Aluminum alloy  |
| Material seals   | HNBR  |
| Material of guide  | POM<br>High alloy steel<br>TPE-E  |
| Material housing   | Wrought Aluminum alloy  |
| Material piston rod                                      | High alloy steel, non-corrosive   |