

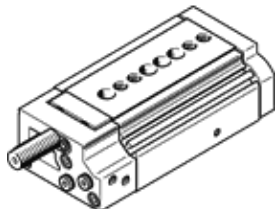
# mini slide

## DGSL-16-20-PA

Part number: 543984

FESTO

With position sensing, highly accurate, durable ball-cage guide, flexible damping on both sides without metallic end position (P).



## Data sheet

| Feature                                                  | Value                                                                       |
|----------------------------------------------------------|-----------------------------------------------------------------------------|
| Stroke                                                   | 20 mm                                                                       |
| Adjustable endposition range/front length                | 37.5 mm                                                                     |
| Adjustable endposition range/rear length                 | 39.5 mm                                                                     |
| Piston diameter                                          | 20 mm                                                                       |
| Operating mode of drive unit                             | Yoke                                                                        |
| Cushioning                                               | P: Flexible cushioning rings/plates at both ends                            |
| Assembly position                                        | Any                                                                         |
| Guide                                                    | Ball bearing cage guide                                                     |
| Design structure                                         | Yoke<br>Piston<br>Piston rod<br>Slide                                       |
| Position detection                                       | For proximity sensor                                                        |
| Operating pressure MPa                                   | 0.1 ... 0.8 MPa                                                             |
| Operating pressure                                       | 1 ... 8 bar                                                                 |
| 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                  | 0 - No corrosion stress                                                     |
| PWIS conformity                                          | VDMA24364-B1/B2-L                                                           |
| Ambient temperature                                      | 0 ... 60 °C                                                                 |
| Impact energy in end positions                           | 0.35 Nm                                                                     |
| Cushioning length                                        | 1.2 mm                                                                      |
| Max. force Fy                                            | 2,021 N                                                                     |
| Max. force Fz                                            | 2,021 N                                                                     |
| Max. torque Mx                                           | 35 Nm                                                                       |
| Max. torque My                                           | 22 Nm                                                                       |
| Max. torque Mz                                           | 22 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                                              | 432 g                                                                       |
| Product weight                                           | 1,044 g                                                                     |
| alternative connections                                  | See product drawing                                                         |
| Mounting type                                            | with through hole                                                           |
| Pneumatic connection                                     | M5                                                                          |
| Materials note                                           | Conforms to RoHS                                                            |
| Material cover                                           | Wrought Aluminium alloy                                                     |
| Material seals                                           | HNBR                                                                        |
| Material housing                                         | Wrought Aluminium alloy                                                     |
| Material piston rod                                      | High alloy steel, non-corrosive                                             |