

# Mini slide

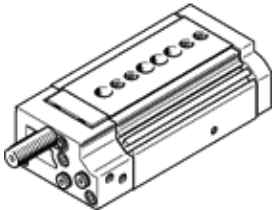
## DGSL-N-16-20-P1A

Part number: 566315  
Product to be discontinued

FESTO

For position sensing, with highly accurate, durable ball-cage guide and very high repetition accuracy, flexible damping on both sides with metallic end position (P1).

Type to be discontinued. Available until 2022. See Support Portal for alternative products.



## Data sheet

| Feature                                    | Value   |
|--|---|
| Stroke                                     | 20 mm   |
| Adjustable end position range/front length | 37.5 mm   |
| Adjustable end position range/rear length  | 39.5 mm   |
| Piston diameter                            | 20 mm   |
| Operating mode of drive unit               | Yoke  |
| Cushioning                                 | P1: Flexible cushioning rings/plates with stop 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  |
| Working pressure                           | 1 ... 8 bar   |
| Max. speed                                 | 0.8 m/s   |
| Repetition accuracy                        | ±0,01 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   |
| Ambient temperature                        | 0 ... 60 °C   |
| Impact energy in end positions             | 0.12 Nm   |
| Cushioning length                          | 4.2 mm  |
| Max. force F <sub>y</sub>                  | 2,021 N   |
| Max. force F <sub>z</sub>                  | 2,021 N   |
| Max. torque M <sub>x</sub>                 | 35 Nm   |
| Max. torque M <sub>y</sub>                 | 22 Nm   |
| Max. torque M <sub>z</sub>                 | 22 Nm   |
| Theoretical force at 6 bar, return stroke  | 158 N   |
| Theoretical force at 6 bar, advance stroke | 188 N   |
| Moving mass                                | 432 g   |
| Product weight                             | 1,034 g   |
| alternative connections                    | See product drawing   |
| Mounting type                              | with through hole   |
| Pneumatic connection                       | M5 suitable for fitting with 10-32 UNF-2B                                   |
| Materials note                             | Free of copper and PTFE<br>Conforms to RoHS                                 |
| Material cover                             | Wrought Aluminum alloy  |
| Material seals                             | HNBR  |
| Material housing                           | Wrought Aluminum alloy  |
| Material piston rod                        | High alloy steel, non-corrosive   |