

Mini slide DGST-12-80-Y12A

Part number: 8085174

FESTO



[PDF](#) [General operating condition](#)

Data sheet

| Feature | Value |
|---|--|
| Stroke | 80 mm |
| Adjustable end-position range/front length | 16.7 mm |
| Adjustable end-position range/rear length | 15.2 mm |
| Piston diameter | 12 mm |
| Drive unit operating mode | Yoke |
| Cushioning | External hydraulic cushioning |
| Mounting position | Any |
| Guide | Recirculating ball bearing guide |
| Structural design | Yoke Piston rod Slide |
| Position sensing | For proximity sensor |
| Symbol | 00991249 |
| Operating pressure | 0.1 MPa ... 0.8 MPa |
| Operating pressure | 1 bar ... 8 bar |
| Operating pressure | 14.5 psi ... 116 psi |
| Max. speed | 0.8 m/s |
| Repetition accuracy | ≤ 0.02 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) | 1 - Low corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 6 according to ISO 14644-1 |
| Ambient temperature | -10 °C ... 60 °C |
| Impact energy in the end positions | 1.4 J |
| Cushioning length | 5 mm |
| Max. force F _y | 600 N |
| Max. force F _z | 600 N |
| Max. torque M _x | 8.9 Nm |
| Max. torque M _y | 6.5 Nm |
| Max. torque M _z | 6.5 Nm |
| Theoretical force at 6 bar, retracting | 102 N |
| Theoretical force at 6 bar, advancing | 136 N |

| Feature | Value |
|----------------------|----------------------------------|
| Moving mass | 376 g |
| Product weight | 808 g |
| Type of mounting | With through-hole |
| Pneumatic connection | M5 |
| Note on materials | RoHS-compliant |
| Cover material | Wrought aluminum alloy |
| Seals material | HNBR |
| Guide material | POM TPE-E High-alloy steel |
| Housing material | Wrought aluminum alloy |
| Piston rod material | High-alloy stainless steel |