

# Mini slide DGST-8-40-Y12A

Part number: 8085163

FESTO



 [General operating condition](#)

## Data sheet

| Feature  | Value  |
|--|--|
| Stroke   | 40 mm  |
| Adjustable end position range/length front                   | 17.6 mm  |
| Adjustable end position range/length rear                    | 15.7 mm  |
| Piston diameter  | 8 mm   |
| Operating mode, drive unit                                   | Yoke   |
| Cushioning   | External hydraulic cushioning  |
| Mounting position  | optional   |
| Guide  | Recirculating ball bearing guide   |
| Design   | Yoke<br>Piston rod<br>Slide  |
| Position detection   | Via proximity switch   |
| Symbol   | 00991249   |
| Operating pressure   | 0.15 MPa ... 0.8 MPa   |
| Operating pressure   | 1.5 bar ... 8 bar  |
| Operating pressure   | 21.75 psi ... 116 psi  |
| Max. speed   | 0.8 m/s  |
| Repetition accuracy  | ≤ 0.02 mm  |
| Mode of operation  | Double-acting  |
| Operating medium   | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Note on operating and pilot medium                           | Lubricated operation possible (in which case lubricated operation will always be required) |
| 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 end positions                               | 0.4 J  |
| Cushioning length  | 4 mm   |
| Max. force F <sub>y</sub>                                    | 325 N  |
| Max. force F <sub>z</sub>                                    | 325 N  |
| Max. moment M <sub>x</sub>                                   | 3 Nm   |
| Max. moment M <sub>y</sub>                                   | 2.5 Nm   |
| Max. moment M <sub>z</sub>                                   | 2.5 Nm   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 45 N   |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 60 N   |

| <b>Feature</b>       | <b>Value</b>                     |
|----------------------|----------------------------------|
| Moving mass          | 110.8 g                          |
| Product weight       | 215.6 g                          |
| Type of mounting     | With through-hole                |
| Pneumatic connection | M5                               |
| Note on materials    | RoHS-compliant                   |
| Material cover       | Wrought aluminium alloy          |
| Material seals       | HNBR                             |
| Material guide       | POM<br>TPE-E<br>High-alloy steel |
| Material housing     | Wrought aluminium alloy          |
| Material piston rod  | High-alloy stainless steel       |