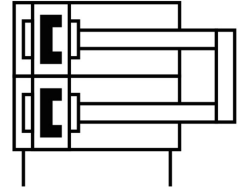


# Mini slide DGST-8-40-Y12A

Part number: 8085163

FESTO



[PDF](#) 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                                                       | Twin piston<br>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                                                                          |
| 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                                                                                       |

| Feature              | Value                            |
|----------------------|----------------------------------|
| 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       |