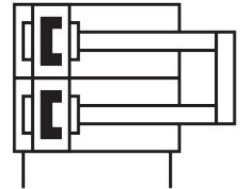


# Mini slide DGST-16-40-E1A

Part number: 8078856

**FESTO**



## Data sheet

| Feature                                                     | Value                                                                                      |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Stroke                                                      | 40 mm                                                                                      |
| Piston diameter                                             | 16 mm                                                                                      |
| Operating mode, drive unit                                  | Yoke                                                                                       |
| Cushioning                                                  | Elastomer cushioning, double-sided, stroke not adjustable                                  |
| Mounting position                                           | optional                                                                                   |
| Guide                                                       | Recirculating ball bearing guide                                                           |
| Design                                                      | Twin piston<br>Yoke<br>Piston rod<br>Slide                                                 |
| Position detection                                          | Via proximity switch                                                                       |
| Operating pressure                                          | 0.1 MPa...0.8 MPa<br>1 bar...8 bar<br>14.5 psi...116 psi                                   |
| Max. speed                                                  | 0.5 m/s                                                                                    |
| Repetition accuracy                                         | <= 0.3 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 class                                             | Class 6 according to ISO 14644-1                                                           |
| Ambient temperature                                         | -10 °C...60 °C                                                                             |
| Impact energy in end positions                              | 0.15 J                                                                                     |
| Cushioning length                                           | 0.8 mm                                                                                     |
| Max. force F <sub>y</sub>                                   | 880 N                                                                                      |
| Max. force F <sub>z</sub>                                   | 880 N                                                                                      |
| Max. moment M <sub>x</sub>                                  | 11.3 Nm                                                                                    |
| Max. moment M <sub>y</sub>                                  | 8 Nm                                                                                       |
| Max. moment M <sub>z</sub>                                  | 8 Nm                                                                                       |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 207 N                                                                                      |

| Feature                                                      | Value                            |
|--------------------------------------------------------------|----------------------------------|
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 241 N                            |
| Moving mass                                                  | 324 g                            |
| Product weight                                               | 629 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       |