

# Mini slide DGST-8-40-Y12A

Part number: 8085163

FESTO



## 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   |
| Operating pressure  | 0.15 MPa...0.8 MPa<br>1.5 bar...8 bar<br>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   |

| <b>Feature</b>   | <b>Value</b>                     |
|--|----------------------------------|
| Max. moment Mz   | 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                             |
| 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       |