

# Mini slide DGST-20- -

Part number: 8073896

**FESTO**



## Data sheet

| Feature   | Value  |
|---|--|
| Stroke  | 10 mm...200 mm   |
| Adjustable end position range/length front                | 6.45 mm...32.9 mm  |
| Adjustable end position range/length rear                 | 7 mm...31.1 mm   |
| Piston diameter   | 20 mm  |
| Operating mode, drive unit                                | Yoke   |
| Cushioning  | Short elastic cushioning rings/pads at both ends<br>Elastomer cushioning, double-sided, stroke not adjustable<br>Elastic cushioning rings/plates at both ends<br>Elastic cushioning rings/pads at both ends with fixed stop<br>External hydraulic cushioning |
| Mounting position   | optional   |
| Guide   | Ball bearing cage guide  |
| Design  | Twin piston<br>Yoke<br>Piston rod<br>Slide   |
| Position detection  | Via proximity switch   |
| Variants  | Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.                               |
| 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...0.8 m/s  |
| Repetition accuracy                                       | <= 0.3 mm<br><= 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  |
| Suitability for the production of Li-ion batteries        | Suitable for battery production with reduced Cu/Zn/Ni values (F1a)   |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 6 according to ISO 14644-1   |

| Feature  | Value                            |
|--|----------------------------------|
| Ambient temperature  | -10 °C...60 °C                   |
| Impact energy in end positions                               | 0.2 J...3 J                      |
| Cushioning length  | 1 mm...8 mm                      |
| Max. force Fy  | 930 N...1600 N                   |
| Max. force Fz  | 930 N...1600 N                   |
| Max. moment Mx   | 9 Nm...20 Nm                     |
| Max. moment My   | 10 Nm...18 Nm                    |
| Max. moment Mz   | 10 Nm...18 Nm                    |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke  | 317 N                            |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 377 N                            |
| Moving mass  | 440 g...1532.5 g                 |
| Product weight   | 970 g...3420 g                   |
| Type of mounting   | With through-hole                |
| Pneumatic connection   | G1/8                             |
| 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       |