

## Mini Slide DGSL-8-50-EA - Festo 570170

Item no. FES-570170

Manufacturer Festo

EAN 4052568216658

Festo pneumatic cylinder for precise linear motion and defined force in automation.

### TECHNICAL DATA

|                                |                                                   |
|--------------------------------|---------------------------------------------------|
| Betriebsdruck max [bar]        | 8.000000                                          |
| Bore (mm)                      | 10.000000                                         |
| Corrosion resistance class CRC | 0 - No corrosion stressing                        |
| Cushioning                     | Short elastic dampening rings / plates both sides |
| Design                         | Yoke, piston, piston rod, carriage                |
| Dichtmaterial                  | HNBR                                              |
| Funktion                       | double-acting                                     |
| HS-Code                        | 84123100                                          |
| Hub [mm]                       | 50                                                |
| Material                       | Aluminium                                         |
| Medium                         | Compressed air                                    |
| Mounting position              | arbitrary                                         |
| Operating conditions           | ISO 8573-1                                        |
| Pneumatic connection           | M3                                                |
| Position sensing               | Yes                                               |
| Series                         | DGSL                                              |
| Temperature (max.)             | 60                                                |
| Weight                         | 0.41 kg                                           |



### STANDARDS & COMPLIANCE

ISO 8573-1:2010

### DESCRIPTION

Festo pneumatic cylinder for precise linear motion and defined force in automation. The key technical data of this genuine Festo article are listed below.

|                                                  |       |
|--------------------------------------------------|-------|
| Stroke [mm]                                      | 50    |
| Alignable end position range / Length front [mm] | 20,5  |
| Alignable end position range / Length rear [mm]  | 3,5   |
| Piston diameter                                  | 10 mm |
| Operating mode actuator unit                     | Joch  |

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|                                                |                                                           |
|------------------------------------------------|-----------------------------------------------------------|
| Dampening                                      | Short elastic dampening rings / plates both sides         |
| installation position                          | arbitrary                                                 |
| Guide                                          | Ball cage guide                                           |
| Construction set up                            | Joch<br>Kolben<br>Kolbenstange<br>Schlitten               |
| Position detection                             | For proximity switch                                      |
| Operating pressure [bar]                       | 1.5 to 8                                                  |
| Max. speed [m/s]                               | 0,8                                                       |
| Repeatability                                  | 0.3 mm                                                    |
| Principle of operation                         | double acting                                             |
| Operating medium                               | Compressed air to ISO 8573-1:2010 [7:4:4]                 |
| Information about operating and control medium | Oiled operation possible (required in further operations) |
| Corrosion resistant class KBK                  | 0 - No corrosion stressing                                |
| ambient temperature [°C]                       | 0 to 60                                                   |
| Impact energy at the end positions [J]         | 0,080                                                     |
| Dampening length [mm]                          | 1,5                                                       |
| Max. force Fy [N]                              | 962                                                       |
| Max. force Fz [N]                              | 962                                                       |
| Max. torque Mx [Nm]                            | 10                                                        |
| Max. torque My [Nm]                            | 8,0                                                       |
| Max. torque Mz [Nm]                            | 8,0                                                       |
| Theoretical force at 6 bar, Return flow [N]    | 40                                                        |
| Theoretical force at 6 bar, flow [N]           | 47                                                        |
| Moving mass [g]                                | 152                                                       |
| Product weight [g]                             | 376                                                       |
| Alternative connections                        | See product drawing                                       |
| Fastening type                                 | With throughway bores                                     |
| Pneumatic connection                           | M3                                                        |
| Material information                           | Copper and PTFE-free<br>RoHs compliant                    |
| Cover material                                 | Aluminium wrought alloy                                   |
| Seals material                                 | HNBR                                                      |
| Housing material                               | Aluminium wrought alloy                                   |
| Piston rod material                            | High-alloyed stainless steels                             |