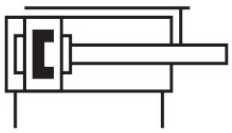
# Mini slide
# DGSS-6-50-E1A

Part number: 8164057





## Data sheet

| Feature | Value |
|---|---|
| Stroke | 50 mm |
| Size | 6 |
| Piston diameter | 6 mm |
| Cushioning | Elastomer cushioning, double-sided, stroke not adjustable |
| Mounting position | Any |
| Guide | Recirculating ball bearing guide |
| Design | 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 | 0.5 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-C1-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 |
| Ambient temperature | -10 °C...60 °C |
| Impact energy in end positions | 0.01 J |
| Cushioning length | 0.9 mm |
| Max. force Fy | 218 N |
| Max. force Fz | 218 N |
| Max. moment Mx | 0.6 Nm |
| Max. moment My | 0.5 Nm |
| Max. moment Mz | 0.5 Nm |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), return stroke | 13 N |
| Theoretical force at 0.6 MPa (6 bar, 87 psi), advance stroke | 17 N |

| Feature | Value |
|---|---|
| Moving mass | 46 g |
| Product weight | 120 g |
| Type of mounting | With through-hole<br>With female thread |
| Pneumatic connection | M3 |
| Note on materials | RoHS compliant |
| Material cover | Wrought aluminium alloy |
| Material seals | NBR<br>PU |
| Material guide | NBR<br>PA<br>High-alloy steel |
| Material housing | Wrought aluminium alloy |
| Material piston rod | High-alloy stainless steel |