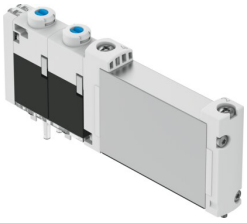
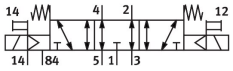
# Solenoid valve
# VUVG-B10-P53E-ZT-F-1T1L-F1A

Part number: 8141522






## Data sheet

| Feature | Value |
|---|---|
| Valve function | 5/3 exhausted |
| Actuation type | Electrical |
| Valve size | 10 mm |
| Normal nominal flow rate (normalized to DIN 1343) | 200 l/min |
| Pneumatic working port | Flange |
| Operating voltage | 24V DC |
| Operating pressure | -0.09 MPa...1 MPa<br>-0.9 bar...10 bar |
| Structural design | Piston gate valve |
| Reset method | Mechanical spring |
| Certification | c UL us - recognized (OL) |
| Degree of protection | IP40 |
| Exhaust air function | Adjustable |
| Sealing principle | Soft |
| Mounting position | Any |
| Manual override | Detenting<br>Non-detenting |
| Type of control | Piloted |
| Pilot air supply port | External |
| Flow direction | Reversible |
| Lap | Indeterminate overlap |
| Signal status display | LED |
| Pilot pressure MPa | 0.3 MPa...0.8 MPa |
| Pilot pressure | 3 bar...8 bar |
| Max. switching frequency | 3 Hz |
| Switching time off | 38 ms |
| On switching time | 12 ms |
| Changeover time | 16 ms |
| Duty cycle | 100% |
| Max. positive test pulse with 0 signal | 1600 µs |
| Max. negative test pulse on 1 signal | 3000 µs |
| Coil characteristics | 22 V DC: 1.0 W |

| Feature | Value |
|---|---|
| Permissible voltage fluctuations | +/- 10% |
| Operating medium | Compressed air as per ISO 8573-1:2010 [7:4:4] |
| Information on operating and pilot media | Operation with oil lubrication possible (required for further use) |
| Vibration resistance | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance | Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 |
| Corrosion resistance class (CRC) | 0 - No corrosion stress |
| LABS (PWIS) conformity | VDMA24364 Zone III |
| 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 |
| Temperature of medium | -5 °C...60 °C |
| Pilot medium | Compressed air as per ISO 8573-1:2010 [7:4:4] |
| Ambient temperature | -5 °C...60 °C |
| Product weight | 58 g |
| Electrical connection | Via sub-base |
| Type of mounting | On terminal strip |
| Note on materials | RoHS compliant |
| Seals material | HNBR<br>NBR |
| Housing material | Wrought aluminum alloy |