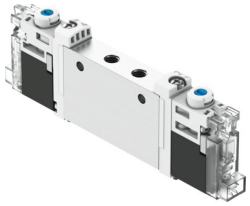
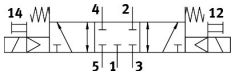
# Solenoid valve
# VUVG-L10-P53C-T-M7-1H2L-F1A

Part number: 8164349






## Data sheet

| Feature | Value |
|---|---|
| Valve function | 5/3-way, closed |
| Type of actuation | Electrical |
| Valve size | 10 mm |
| Standard nominal flow rate (standardised to DIN 1343) | 320 l/min |
| pneumatic working port | M7 |
| Operating voltage | 24 V DC |
| Operating pressure | 0.3 MPa...0.8 MPa<br>3 bar...8 bar |
| Design | Piston gate valve |
| Type of reset | Mechanical spring |
| Approval | RCM<br>c UL us - Recognised (Oil) |
| Certificate issuing authority | UL MH19482 |
| Degree of protection | IP40 |
| Nominal size | 3.5 mm |
| Exhaust-air function | Can be throttled |
| Sealing principle | Soft |
| Mounting position | Any |
| Manual override | Detenting<br>Non-detenting<br>Concealed |
| Type of piloting | Piloted |
| Pilot air supply | Internal |
| lap | Overlap |
| Pilot pressure | 0.3 MPa...0.8 MPa<br>3 bar...8 bar |
| Suitability for vacuum | No |
| Switching time off | 36 ms |
| Switching time on | 14 ms |
| Switching time reversal | 19 ms |
| Duty cycle | 100% |
| Max. positive test pulse with 0 signal | 700 µs |
| Max. negative test pulse with 1 signal | 900 µs |

| Feature | Value |
|---|---|
| Characteristic coil data | 24 V DC: 0.8 W |
| Permissible voltage fluctuations | +/-10% |
| 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) |
| Vibration resistance | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6 |
| Restrictions for environmental and media temperature | -5 - 50 °C<br>Without holding current reduction |
| Shock resistance | Shock test with severity level 2 to 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 5 according to ISO 14644-1 |
| Storage temperature | -20 °C...60 °C |
| Media temperature | -5 °C...50 °C |
| Ambient temperature | -5 °C...50 °C |
| Product weight | 55 g |
| Electrical connection | 2-pin<br>Plug pattern H, horizontal connection<br>Plug |
| Type of mounting | Either:<br>On manifold rail<br>With through-hole |
| Pneumatic connection, port 1 | M7 |
| Pneumatic connection, port 2 | M7 |
| Pneumatic connection, port 3 | M7 |
| Pneumatic connection, port 4 | M7 |
| Pneumatic connection, port 5 | M7 |
| Note on materials | RoHS compliant |
| Material seals | HNBR<br>NBR |
| Material housing | Wrought aluminium alloy |
| Material screws | Coated steel |