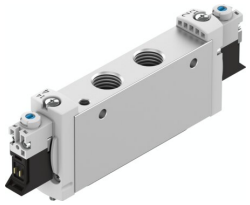
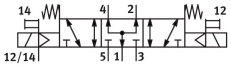
# Solenoid valve
# VUVG-L18-P53U-ZT-G14-1P3

Part number: 574442






## Data sheet

| Feature | Value |
|---|---|
| Valve function | 5/3-way, pressurised |
| Type of actuation | Electrical |
| Valve size | 18 mm |
| Standard nominal flow rate (standardised to DIN 1343) | 1000 l/min |
| pneumatic working port | G1/4 |
| Operating voltage | 24 V DC |
| Operating pressure | -0.09 MPa...1 MPa<br>-0.9 bar...10 bar |
| Design | Piston gate valve |
| Type of reset | Mechanical spring |
| Approval | RCM<br>c UL us - Recognised (Oil) |
| CE mark (see declaration of conformity) | To EU EMC Directive<br>To EU Low Voltage Directive<br>In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions<br>To UK regulations for electrical equipment |
| Degree of protection | IP40<br>IP65<br>With plug socket |
| Nominal size | 6.3 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 | External |
| lap | Indeterminate overlap |
| Pilot pressure | 0.3 MPa...0.8 MPa<br>3 bar...8 bar |
| Switching time off | 48 ms |

| Feature | Value |
|---|---|
| Switching time on | 15 ms |
| Switching time reversal | 29 ms |
| Duty cycle | 100% |
| Max. positive test pulse with 0 signal | 700 µs |
| Max. negative test pulse with 1 signal | 900 µs |
| Characteristic coil data | 24 V DC: 1.0 W<br>24 V DC: low-current phase 0.3 W, high-current phase 1.0 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 | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 5 according to ISO 14644-1 |
| Media temperature | -5 °C...60 °C |
| Pilot medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Ambient temperature | -5 °C...60 °C |
| Product weight | 160 g |
| Electrical connection | Via electrical sub-base |
| Type of mounting | Either:<br>On manifold rail<br>With through-hole |
| Pilot air port 12/14 | M5 |
| Pneumatic connection, port 1 | G1/4 |
| Pneumatic connection, port 2 | G1/4 |
| Pneumatic connection, port 3 | G1/4 |
| Pneumatic connection, port 4 | G1/4 |
| Pneumatic connection, port 5 | G1/4 |
| Note on materials | RoHS compliant |
| Material seals | HNBR<br>NBR |
| Material housing | Wrought aluminium alloy |