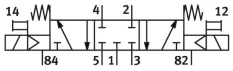
# Solenoid valve
# VUVS-L20-P53C-MD-G18-F7-1C1

Part number: 575268






## Data sheet

| Feature | Value |
|---|---|
| Valve function | 5/3-way, closed |
| Type of actuation | Electrical |
| Valve size | 21 mm |
| Standard nominal flow rate (standardised to DIN 1343) | 700 l/min |
| pneumatic working port | G1/8 |
| Operating voltage | 24 V DC |
| Operating pressure | 0.25 MPa...1 MPa<br>2.5 bar...10 bar |
| Design | Piston gate valve |
| Type of reset | Mechanical spring |
| Approval | c UL us - Recognised (Oil) |
| Degree of protection | IP65<br>With plug socket<br>To IEC 60529 |
| Nominal size | 5 mm |
| Exhaust-air function | Can be throttled |
| Sealing principle | Soft |
| Mounting position | Any |
| Manual override | Detenting<br>Non-detenting |
| Type of piloting | Piloted |
| Pilot air supply | Internal |
| Flow direction | Non-reversible |
| lap | Overlap |
| b value | 0.35 |
| C value | 2.9 l/sbar |
| Switching time off | 42 ms |
| Switching time on | 13 ms |
| Switching time reversal | 24 ms |
| Duty cycle | 100% |
| Max. positive test pulse with 0 signal | 1900 µs |
| Max. negative test pulse with 1 signal | 2700 µs |

| Feature | Value |
|---|---|
| Characteristic coil data | 24 V DC: 2.6 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 |
| 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 6 according to ISO 14644-1 |
| Media temperature | -10 °C...60 °C |
| Pilot medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Ambient temperature | -10 °C...60 °C |
| Product weight | 263 g |
| Electrical connection | Type C<br>To EN 175301-803 |
| Type of mounting | Either:<br>On manifold rail<br>With through-hole |
| Breather connection | Not ducted |
| Pilot exhaust port 82 | M5 |
| Pilot exhaust port 84 | M5 |
| Pneumatic connection, port 1 | G1/8 |
| Pneumatic connection, port 2 | G1/8 |
| Pneumatic connection, port 3 | G1/8 |
| Pneumatic connection, port 4 | G1/8 |
| Pneumatic connection, port 5 | G1/8 |
| Note on materials | RoHS compliant |
| Material seals | HNBR<br>NBR |
| Material housing | Die-cast aluminium<br>painted |
| Material piston slide | High-alloy stainless steel |
| Material screws | Galvanised steel |