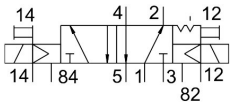
# Air solenoid valve
# VUVS-LT20-B52-ZD-G18-F7-1C1

Part number: 577518






## Data sheet

| Feature | Value |
|---|---|
| Valve function | 5/2-way, bistable |
| Actuation type | Electrical |
| Valve size | 21 mm |
| Normal nominal flow rate (normalized to DIN 1343) | 500 l/min |
| Pneumatic working port | G1/8 |
| Operating voltage | 24V DC |
| Operating pressure | 0.15 MPa...1 MPa<br>1.5 bar...10 bar |
| Structural design | Plate seat |
| Certification | c UL us - recognized (OL) |
| Degree of protection | IP65<br>With plug socket<br>As per IEC 60529 |
| Nominal width | 5 mm |
| 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 | Non-reversible |
| Lap | Negative overlap |
| Pilot pressure MPa | 1.5 MPa...10 MPa |
| Pilot pressure | 15 bar...100 bar |
| b-value | 0.27 |
| C value | 2.1 l/sbar |
| Changeover time | 8 ms |
| Duty cycle | 100% |
| Max. positive test pulse with 0 signal | 1900 µs |
| Max. negative test pulse on 1 signal | 2700 µs |
| Coil characteristics | 24 V DC: 2.6 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) | 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 |
| Temperature of medium | -10 °C...60 °C |
| Pilot medium | Compressed air as per ISO 8573-1:2010 [7:4:4] |
| Ambient temperature | -10 °C...60 °C |
| Product weight | 248 g |
| Electrical connection | Type C<br>As per EN 175301-803 |
| Type of mounting | Alternatively:<br>On terminal strip<br>With through-hole |
| Venting hole connection | Not ducted |
| Pilot exhaust air port 82 | M5 |
| Pilot exhaust air port 84 | M5 |
| Pilot air port 12 | M5 |
| Pilot air port 14 | M5 |
| Pneumatic connection 1 | G1/8 |
| Pneumatic connection 2 | G1/8 |
| Pneumatic connection 3 | G1/8 |
| Pneumatic connection 4 | G1/8 |
| Pneumatic connection 5 | G1/8 |
| Note on materials | RoHS compliant |
| Seals material | HNBR<br>NBR<br>TPE-U(PU) |
| Housing material | Die-cast aluminum<br>Painted |
| Material of screws | Galvanized steel |