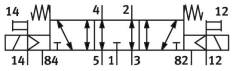
# Solenoid valve
# VUVS-L25-P53E-MZD-G14-F8-1B2

Part number: 575542






## Data sheet

| Feature | Value |
|---|---|
| Valve function | 5/3 exhausted |
| Type of actuation | Electrical |
| Valve size | 26.5 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 | c UL us - Recognised (Oil) |
| Maritime classification | See certificate |
| Certificate issuing authority | DNVGL-TAA000011J |
| Degree of protection | IP65<br>With plug socket<br>To IEC 60529 |
| Nominal size | 6.3 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 | External |
| Flow direction | Reversible |
| lap | Overlap |
| Pilot pressure | 0.25 MPa...1 MPa<br>2.5 bar...10 bar |
| b value | 0.4 |
| C value | 4.3 l/sbar |
| Switching time off | 48 ms |
| Switching time on | 14 ms |
| Switching time reversal | 25 ms |

| Feature | Value |
|---|---|
| Duty cycle | 100% |
| Max. positive test pulse with 0 signal | 2000 µs |
| Max. negative test pulse with 1 signal | 3600 µs |
| Characteristic coil data | 24 V DC: 3.3 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 | 430 g |
| Electrical connection | Type B<br>To industry standard (11 mm) |
| 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 |
| Pilot air port 12 | M5 |
| Pilot air port 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 | Die-cast aluminium<br>painted |
| Material piston slide | Wrought aluminium alloy |
| Material screws | Galvanised steel |