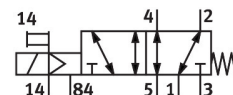


# Solenoid valve VUVS-L20-M52-MZD-G18-F7-1C1

Part number: 575680

**FESTO**



## Data sheet

| Feature   | Value                                    |
|---|--|
| Valve function  | 5/2-way, monostable                      |
| Type of actuation                                     | Electric                                 |
| Valve size  | 21 mm                                    |
| Standard nominal flow rate (standardised to DIN 1343) | 700 l/min                                |
| pneumatic working port                                | G1/8                                     |
| Operating voltage                                     | 24V 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 - Recognized (OL)                |
| Degree of protection                                  | IP65<br>With plug socket<br>To IEC 60529 |
| Nominal size  | 5.7 mm                                   |
| Exhaust-air function                                  | With flow control option                 |
| Sealing principle                                     | Soft                                     |
| Mounting position                                     | optional                                 |
| Manual override                                       | Detenting<br>Non-detenting               |
| Type of piloting                                      | Pilot actuated                           |
| Pilot air supply                                      | External                                 |
| Flow direction  | Reversible                               |
| lap   | Overlap                                  |
| Pilot pressure  | 0.25 MPa...1 MPa<br>2.5 bar...10 bar     |
| b value   | 0.35                                     |
| C value   | 2.9 l/sbar                               |
| Switching time off                                    | 44 ms                                    |
| Switching time on                                     | 12 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 class                    | 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                     | 217 g  |
| Electrical connection              | Type C<br>To EN 175301-803   |
| Type of mounting                   | On manifold rail<br>With through-hole<br>Either:   |
| Breather connection                | Not ducted   |
| Pilot exhaust port 84              | M5   |
| Pilot air port 14                  | 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              | Wrought aluminium alloy  |
| Material screws                    | Galvanised steel   |