

# Solenoid valve VUVS-LT20-M52-MZD-G18-F7

Part number: 577495

FESTO



## Data sheet

| Feature                                | Value  |
|--|--|
| Valve function                         | 5/2-way, monostable  |
| Type of actuation                      | Electric   |
| Valve size                             | 21 mm  |
| Standard nominal flow rate             | 500 l/min  |
| pneumatic working port                 | G1/8   |
| Operating pressure                     | 0.25 MPa...1 MPa<br>2.5 bar...10 bar   |
| Design                                 | Poppet seat  |
| Type of reset                          | Mechanical spring  |
| Approval                               | c UL us - Recognized (OL)  |
| Nominal size                           | 5 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                         | Non-reversible   |
| lap                                    | Underlap   |
| Pilot pressure                         | 0.25 MPa...1 MPa<br>2.5 bar...10 bar   |
| b value                                | 0.31   |
| C value                                | 2.1 l/sbar   |
| Switching time off                     | 19 ms  |
| Switching time on                      | 15 ms  |
| Max. positive test pulse with 0 signal | 1900 µs  |
| Max. negative test pulse with 1 signal | 2700 µs  |
| 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           |

| Feature                        | Value   |
|--------------------------------|---|
| 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   |
| 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                 | 167 g   |
| Type of mounting               | Either:<br>On manifold rail<br>With through-hole                  |
| 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<br>TPE-U(PU)  |
| Material housing               | Die-cast aluminium<br>Painted                                     |
| Material screws                | Galvanised steel  |