

# Solenoid valve

## VUVS-LT20-T32U-MZD-G18-F7

FESTO

Part number: 577501



 General operating condition

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function  | 2x3/2-way, open, monostable  |
| Type of actuation                                     | Electric   |
| Valve size  | 21 mm  |
| Standard nominal flow rate (standardised to DIN 1343) | 600 l/min  |
| pneumatic working port                                | G1/8   |
| Operating pressure                                    | -0.09 MPa ... 1 MPa  |
| Operating pressure                                    | -0.9 bar ... 10 bar  |
| Design  | Poppet seat  |
| Type of reset   | Mechanical spring  |
| Approval  | c UL us - Recognized (OL)  |
| Nominal size  | 5.2 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   |
| Symbol  | 00995864   |
| lap   | Underlap   |
| Pilot pressure  | 0.25 MPa ... 1 MPa   |
| Pilot pressure  | 2.5 bar ... 10 bar   |
| b value   | 0.29   |
| C value   | 2.3 l/sbar   |
| Switching time off                                    | 23 ms  |
| Switching time on                                     | 9 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           |
| 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  |

| <b>Feature</b>  | <b>Value</b>                              |
|---|---|
| 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                                       | -5 °C ... 60 °C                           |
| Product weight  | 180 g                                     |
| Type of mounting  | 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                              | G1/8                                      |
| Pneumatic connection, port 2                              | G1/8                                      |
| Pneumatic connection, port 3                              | 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                          |