

# Air solenoid valve VUVS-L20-P53E-MZD-G18-F7-1C1

FESTO

Part number: 575692



[General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function                                    | 5/3, exhausted                               |
| Actuation type                                    | Electrical                                   |
| Valve size  | 21 mm  |
| Normal nominal flow rate (normalized to DIN 1343) | 600 l/min                                    |
| Pneumatic working port                            | G1/8   |
| Operating voltage                                 | 24V DC                                       |
| Operating pressure                                | -0.09 MPa ... 1 MPa                          |
| Operating pressure                                | -0.9 bar ... 10 bar                          |
| Structural design                                 | Piston gate valve                            |
| Reset method                                      | Mechanical spring                            |
| Certification                                     | c UL us - Recognized (OL)                    |
| Degree of protection                              | IP65<br>With plug socket<br>as per IEC 60529 |
| Nominal width                                     | 4.5 mm                                       |
| Exhaust air function                              | With flow control option                     |
| Sealing principle                                 | Soft   |
| Mounting position                                 | Any  |
| Manual override                                   | Detenting<br>Non-detenting                   |
| Type of control                                   | Pilot-controlled                             |
| Pilot air supply port                             | External                                     |
| Flow direction                                    | Reversible                                   |
| Symbol  | 00991032                                     |
| Lap   | Overlap                                      |
| Pilot pressure MPa                                | 0.25 MPa ... 1 MPa                           |
| Pilot pressure                                    | 2.5 bar ... 10 bar                           |
| b-value   | 0.35   |
| C value   | 2.5 l/sbar                                   |
| Switching time off                                | 44 ms  |
| On switching time                                 | 13 ms  |
| Changeover time                                   | 24 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  | 263 g  |
| Electrical connection                                     | Form C<br>as per EN 175301-803   |
| Type of mounting  | 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  |
| Housing material  | Die-cast aluminum<br>Painted   |
| Piston slide material                                     | High-alloy stainless steel   |
| Material of screws  | Steel, galvanized  |