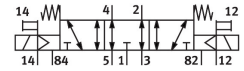


# Air solenoid valve VUVS-L20-P53E-MZD-G18-F7

Part number: 575691

**FESTO**



## Data sheet

| Feature                                  | Value  |
|--|--|
| Valve function                           | 5/3, exhausted   |
| Actuation type                           | Electrical   |
| Valve size                               | 21 mm  |
| Standard nominal flow rate               | 600 l/min  |
| Pneumatic working port                   | G1/8   |
| Operating pressure                       | -0.09 MPa...1 MPa<br>-0.9 bar...10 bar                             |
| Structural design                        | Piston gate valve  |
| Reset method                             | Mechanical spring  |
| Certification                            | c UL us - Recognized (OL)  |
| 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   |
| 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  |
| Max. positive test pulse with 0 signal   | 1900 µs  |
| Max. negative test pulse on 1 signal     | 2700 µs  |
| 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) |

| Feature                          | Value  |
|----------------------------------|--|
| 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 class                  | 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                   | 229 g  |
| Type of mounting                 | On terminal strip<br>With through-hole<br>Optionally:                                |
| 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  |