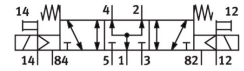


# Air solenoid valve VUVS-L25-P53U-MZD-G14-F8-1B2

Part number: 575535

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                | Value                                        |
|----------------------------------------|----------------------------------------------|
| Valve function                         | 5/3, pressurized                             |
| Actuation type                         | Electrical                                   |
| Valve size                             | 26.5 mm                                      |
| Standard nominal flow rate             | 1000 l/min                                   |
| Pneumatic working port                 | G1/4                                         |
| 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)                    |
| Maritime classification                | See certificate                              |
| Certificate issuing authority          | DNVGL-TAA000011J                             |
| Degree of protection                   | IP65<br>With plug socket<br>as per IEC 60529 |
| Nominal width                          | 6.3 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                                 | 00991031                                     |
| Lap                                    | Overlap                                      |
| Pilot pressure MPa                     | 0.25 MPa ... 1 MPa                           |
| Pilot pressure                         | 2.5 bar ... 10 bar                           |
| b-value                                | 0.4                                          |
| C value                                | 4.3 l/sbar                                   |
| Switching time off                     | 48 ms                                        |
| On switching time                      | 14 ms                                        |
| Changeover time                        | 25 ms                                        |
| Duty cycle                             | 100%                                         |
| Max. positive test pulse with 0 signal | 2000 µs                                      |

| Feature                                  | Value                                                                                |
|------------------------------------------|--------------------------------------------------------------------------------------|
| Max. negative test pulse on 1 signal     | 3600 µs                                                                              |
| Coil characteristics                     | 24 V DC: 3.3 W                                                                       |
| 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 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                           | 430 g                                                                                |
| Electrical connection                    | Form B<br>As per industrial standard (11 mm)                                         |
| Type of mounting                         | 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                   | G1/4                                                                                 |
| Pneumatic connection 2                   | G1/4                                                                                 |
| Pneumatic connection 3                   | G1/4                                                                                 |
| Pneumatic connection 4                   | G1/4                                                                                 |
| Pneumatic connection 5                   | G1/4                                                                                 |
| Note on materials                        | RoHS-compliant                                                                       |
| Seals material                           | HNBR<br>NBR                                                                          |
| Housing material                         | Painted                                                                              |
| Piston slide material                    | Wrought aluminum alloy                                                               |
| Material of screws                       | Steel, galvanized                                                                    |