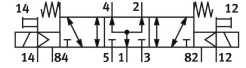


# Air solenoid valve

## VUVS-L25-P53U-MZD-G14-F8-1B2

Part number: 575535

**FESTO**



## Data sheet

| Feature                                           | Value                                        |
|---------------------------------------------------|----------------------------------------------|
| Valve function                                    | 5/3-way, pressurized                         |
| Actuation type                                    | Electrical                                   |
| Valve size                                        | 26.5 mm                                      |
| Normal nominal flow rate (normalized to DIN 1343) | 1000 l/min                                   |
| Pneumatic working port                            | G1/4                                         |
| Operating voltage                                 | 24V DC                                       |
| 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)                    |
| 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                              | Adjustable                                   |
| Sealing principle                                 | Soft                                         |
| Mounting position                                 | Any                                          |
| Manual override                                   | Detenting<br>Non-detenting                   |
| Type of control                                   | Piloted                                      |
| Pilot air supply port                             | External                                     |
| Flow direction                                    | Reversible                                   |
| Lap                                               | Positive 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                                        |

| Feature                                                   | Value                                                                                |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------|
| Changeover time                                           | 25 ms                                                                                |
| Duty cycle                                                | 100%                                                                                 |
| Max. positive test pulse with 0 signal                    | 2000 µs                                                                              |
| 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 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                                            | 430 g                                                                                |
| Electrical connection                                     | Form B<br>As per industry standard (11 mm)                                           |
| Type of mounting                                          | Alternatively:<br>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                                    | G1/4                                                                                 |
| 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                                          | Die-cast aluminum<br>Painted                                                         |
| Piston slide material                                     | Wrought aluminum alloy                                                               |
| Material of screws                                        | Galvanized steel                                                                     |