

# Solenoid valve VUVS-L30-P53U-MZD-G38-F8-1C1

Part number: 575626

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                               | Value                                    |
|-------------------------------------------------------|------------------------------------------|
| Valve function                                        | 5/3-way, pressurised                     |
| Type of actuation                                     | Electric                                 |
| Valve size                                            | 31 mm                                    |
| Standard nominal flow rate (standardised to DIN 1343) | 1600 l/min                               |
| pneumatic working port                                | G3/8                                     |
| Operating voltage                                     | 24V DC                                   |
| Operating pressure                                    | -0.09 MPa ... 1 MPa                      |
| Operating pressure                                    | -0.9 bar ... 10 bar                      |
| Design                                                | Piston gate valve                        |
| Type of reset                                         | Mechanical spring                        |
| Approval                                              | c UL us - Recognized (OL)                |
| Degree of protection                                  | IP65<br>With plug socket<br>To IEC 60529 |
| Nominal size                                          | 8.1 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                                        | Reversible                               |
| Symbol                                                | 00991031                                 |
| lap                                                   | Overlap                                  |
| Pilot pressure                                        | 0.25 MPa ... 1 MPa                       |
| Pilot pressure                                        | 2.5 bar ... 10 bar                       |
| b value                                               | 0.4                                      |
| C value                                               | 6.6 l/sbar                               |
| Switching time off                                    | 75 ms                                    |
| Switching time on                                     | 18 ms                                    |
| Switching time reversal                               | 31 ms                                    |
| Duty cycle                                            | 100%                                     |
| Max. positive test pulse with 0 signal                | 2000 µs                                  |
| Max. negative test pulse with 1 signal                | 3600 µs                                  |
| Characteristic coil data                              | 24 V DC: 3.3 W                           |

| Feature                            | Value                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------|
| Permissible voltage fluctuations   | +/- 10 %                                                                                   |
| 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                                                              |
| LABS (PWIS) conformity             | VDMA24364-B1/B2-L                                                                          |
| Cleanroom class                    | 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                | -10 °C ... 60 °C                                                                           |
| Product weight                     | 562 g                                                                                      |
| Electrical connection              | Type C<br>To EN 175301-803                                                                 |
| Type of mounting                   | Either:<br>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                  | G1/8                                                                                       |
| Pilot air port 14                  | G1/8                                                                                       |
| Pneumatic connection, port 1       | G3/8                                                                                       |
| Pneumatic connection, port 2       | G3/8                                                                                       |
| Pneumatic connection, port 3       | G3/8                                                                                       |
| Pneumatic connection, port 4       | G3/8                                                                                       |
| Pneumatic connection, port 5       | G3/8                                                                                       |
| Note on materials                  | RoHS-compliant                                                                             |
| Material seals                     | HNBR<br>NBR                                                                                |
| Material housing                   | Painted                                                                                    |
| Material piston slide              | Wrought aluminium alloy                                                                    |
| Material screws                    | Nickel-plated steel                                                                        |