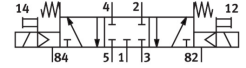


# Solenoid valve VUVS-L20-P53C-MD-G18-F7-1C1

Part number: 575268

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                               | Value                                     |
|-------------------------------------------------------|-------------------------------------------|
| Valve function                                        | 5/3 closed                                |
| Type of actuation                                     | Electric                                  |
| Valve size                                            | 21 mm                                     |
| Standard nominal flow rate (standardised to DIN 1343) | 700 l/min                                 |
| pneumatic working port                                | G1/8                                      |
| Operating voltage                                     | 24V DC                                    |
| Operating pressure                                    | 0.25 MPa ... 1 MPa                        |
| Operating pressure                                    | 2.5 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                                          | 5 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                                      | Internal                                  |
| Flow direction                                        | Non-reversible                            |
| Symbol                                                | 00991033                                  |
| lap                                                   | Overlap                                   |
| b value                                               | 0.35                                      |
| C value                                               | 2.9 l/sbar                                |
| Switching time off                                    | 42 ms                                     |
| Switching time on                                     | 13 ms                                     |
| Switching time reversal                               | 24 ms                                     |
| Duty cycle                                            | 100%                                      |
| Max. positive test pulse with 0 signal                | 1900 µs                                   |
| Max. negative test pulse with 1 signal                | 2700 µs                                   |
| Characteristic coil data                              | 24 V DC: 2.6 W                            |
| Permissible voltage fluctuations                      | +/- 10 %                                  |
| Operating medium                                      | Compressed air to ISO 8573-1:2010 [7:4:4] |

| Feature                            | Value                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------|
| 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                     | 263 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                                                                                         |
| Pneumatic connection, port 1       | G1/8                                                                                       |
| Pneumatic connection, port 2       | G1/8                                                                                       |
| Pneumatic connection, port 3       | G1/8                                                                                       |
| Pneumatic connection, port 4       | G1/8                                                                                       |
| Pneumatic connection, port 5       | G1/8                                                                                       |
| Note on materials                  | RoHS-compliant                                                                             |
| Material seals                     | HNBR<br>NBR                                                                                |
| Material housing                   | Painted                                                                                    |
| Material piston slide              | High-alloy stainless steel                                                                 |
| Material screws                    | Galvanised steel                                                                           |