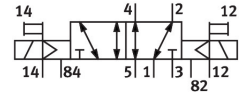


# Solenoid valve

## VUVS-L20-B52-ZD-G18-F7-1C1

FESTO

Part number: 575683



 [General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function  | 5/2 bistable   |
| 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                                    | -0.09 MPa ... 1 MPa  |
| Operating pressure                                    | -0.9 bar ... 10 bar  |
| Design  | Piston gate valve  |
| Approval  | c UL us - Recognized (OL)  |
| Degree of protection                                  | IP65<br>With plug socket<br>To IEC 60529   |
| Nominal size  | 5.7 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  | 00991016   |
| lap   | Overlap  |
| Pilot pressure  | 0.15 MPa ... 1 MPa   |
| Pilot pressure  | 1.5 bar ... 10 bar   |
| b value   | 0.35   |
| C value   | 2.9 l/sbar   |
| Switching time reversal                               | 10 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]  |
| Note on operating and pilot medium                    | Lubricated operation possible (in which case lubricated operation will always be required) |

| Feature                        | Value  |
|--------------------------------|--|
| 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                 | 259 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              | M5   |
| Pilot air port 14              | 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          | Wrought aluminium alloy  |
| Material screws                | Galvanised steel   |