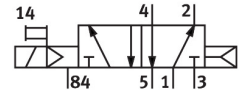


# Solenoid valve VUVS-L20-M52-AD-G18-F7

Part number: 575249

**FESTO**



 General operating condition

## Data sheet

| Feature                                               | Value                                                                                      |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                                        | 5/2-way, monostable                                                                        |
| 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 pressure                                    | 0.25 MPa ... 1 MPa                                                                         |
| Operating pressure                                    | 2.5 bar ... 10 bar                                                                         |
| Design                                                | Piston gate valve                                                                          |
| Type of reset                                         | Pneumatic spring                                                                           |
| Approval                                              | c UL us - Recognized (OL)                                                                  |
| 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                                      | Internal                                                                                   |
| Flow direction                                        | Non-reversible                                                                             |
| Symbol                                                | 00991023                                                                                   |
| lap                                                   | Overlap                                                                                    |
| b value                                               | 0.35                                                                                       |
| C value                                               | 2.9 l/sbar                                                                                 |
| Switching time off                                    | 29 ms                                                                                      |
| Switching time on                                     | 20 ms                                                                                      |
| Max. positive test pulse with 0 signal                | 1900 µs                                                                                    |
| Max. negative test pulse with 1 signal                | 2700 µs                                                                                    |
| 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                                                           |

| Feature                      | Value                                            |
|------------------------------|--------------------------------------------------|
| 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               | 188 g                                            |
| Type of mounting             | Either:<br>On manifold rail<br>With through-hole |
| Breather connection          | Not ducted                                       |
| 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        | Wrought aluminium alloy                          |
| Material screws              | Galvanised steel                                 |