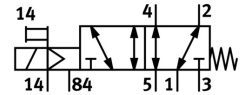
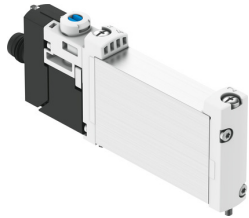


# Air solenoid valve VUVG-B10-M52-MZT-F-1R8L

FESTO

Part number: 578157



[General operating condition](#)

## Data sheet

| Feature                                  | Value  |
|--|--|
| Valve function                           | 5/2, monostable  |
| Actuation type                           | Electrical   |
| Valve size                               | 10 mm  |
| Standard nominal flow rate               | 230 l/min  |
| Pneumatic working port                   | Flange   |
| Operating voltage                        | 24V DC   |
| Operating pressure                       | -0.09 MPa ... 0.8 MPa  |
| Operating pressure                       | -0.9 bar ... 8 bar   |
| Structural design                        | Piston gate valve  |
| Reset method                             | Mechanical spring  |
| Certification                            | RCM compliance mark<br>c UL us - Recognized (OL)                   |
| Degree of protection                     | IP65<br>With plug socket   |
| Nominal width                            | 2.3 mm   |
| Exhaust air function                     | With flow control option   |
| Sealing principle                        | Soft   |
| Mounting position                        | Any  |
| Manual override                          | Detenting<br>Non-detenting<br>Covered                              |
| Type of control                          | Pilot-controlled   |
| Pilot air supply port                    | External   |
| Symbol                                   | 00991025   |
| Lap                                      | Overlap  |
| Pilot pressure MPa                       | 0.3 MPa ... 0.8 MPa  |
| Pilot pressure                           | 3 bar ... 8 bar  |
| Suitability for vacuum                   | yes  |
| Switching time off                       | 24 ms  |
| On switching time                        | 8 ms   |
| Duty cycle                               | 100%   |
| Max. positive test pulse with 0 signal   | 700 µs   |
| Max. negative test pulse on 1 signal     | 900 µs   |
| Coil characteristics                     | 24 V DC: 1.0 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) |

| Feature                                  | Value  |
|--|--|
| Vibration resistance                     | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| Restricted ambient and media temperature | -5 - 50 °C<br>Without holding power reduction  |
| 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  |
| Temperature of medium                    | -5 °C ... 60 °C  |
| Pilot medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4]  |
| Ambient temperature                      | -5 °C ... 60 °C  |
| Product weight                           | 44 g   |
| Electrical connection                    | Via electrical sub-base  |
| Type of mounting                         | On terminal strip  |
| Note on materials                        | RoHS-compliant   |
| Seals material                           | HNBR<br>NBR  |
| Housing material                         | Wrought aluminum alloy   |