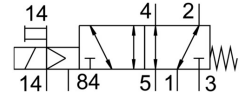
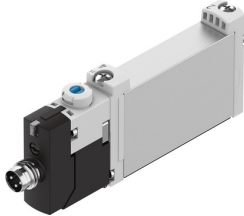


# Air solenoid valve VUVG-B10-M52-MZT-F-1R8L

FESTO

Part number: 578157



## Data sheet

| Feature                                | Value                                                             |
|----------------------------------------|-------------------------------------------------------------------|
| Valve function                         | 5/2, monostable                                                   |
| Lap                                    | Overlap                                                           |
| Operating pressure                     | -0.09 MPa ... 0.8 MPa                                             |
| Pilot pressure MPa                     | 0.3 MPa ... 0.8 MPa                                               |
| Actuation type                         | Electrical                                                        |
| Valve size                             | 10 mm                                                             |
| Standard nominal flow rate             | 230 l/min                                                         |
| Pneumatic working port                 | Flange                                                            |
| Operating voltage                      | 24V DC                                                            |
| Operating pressure                     | -0.9 bar ... 8 bar                                                |
| Design                                 | Piston gate valve                                                 |
| Reset method                           | Mechanical spring                                                 |
| Degree of protection                   | IP65<br>With plug socket                                          |
| Certification                          | RCM compliance mark<br>c CSA us (OL)<br>c UL us - Recognized (OL) |
| Nominal width                          | 2.3 mm                                                            |
| Type code                              | VUVG                                                              |
| 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                                                          |
| 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 %                                                          |

| Feature                                  | Value                                                                                |
|------------------------------------------|--------------------------------------------------------------------------------------|
| 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)                   |
| Vibration resistance                     | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance                         | Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27                |
| Restricted ambient and media temperature | -5 - 50 °C<br>Without holding power reduction                                        |
| Corrosion resistance class (CRC)         | 2 - Moderate corrosion stress                                                        |
| 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                                                               |