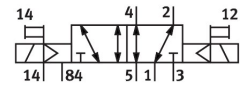
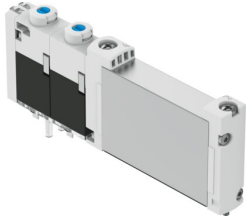


# Solenoid valve VUVG-B10-B52-ZT-F-1T1L-F1A

Part number: 8150398

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                  | Value                                                                                                                                                                                                                          |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Valve function                           | 5/2, bistable                                                                                                                                                                                                                  |
| Actuation type                           | Electrical                                                                                                                                                                                                                     |
| Valve size                               | 10 mm                                                                                                                                                                                                                          |
| Standard nominal flow rate               | 220 l/min                                                                                                                                                                                                                      |
| Pneumatic working port                   | Flange                                                                                                                                                                                                                         |
| Operating voltage                        | 24V DC                                                                                                                                                                                                                         |
| Operating pressure                       | -0.09 MPa ... 1 MPa                                                                                                                                                                                                            |
| Operating pressure                       | -0.9 bar ... 10 bar                                                                                                                                                                                                            |
| Structural design                        | Piston gate valve                                                                                                                                                                                                              |
| Certification                            | c UL us - Recognized (OL)                                                                                                                                                                                                      |
| Degree of protection                     | IP40                                                                                                                                                                                                                           |
| Exhaust air function                     | With flow control option                                                                                                                                                                                                       |
| Sealing principle                        | Soft                                                                                                                                                                                                                           |
| Mounting position                        | Any                                                                                                                                                                                                                            |
| Manual override                          | Detenting<br>Non-detenting                                                                                                                                                                                                     |
| Type of control                          | Pilot-controlled                                                                                                                                                                                                               |
| Pilot air supply port                    | External                                                                                                                                                                                                                       |
| Flow direction                           | Reversible                                                                                                                                                                                                                     |
| Symbol                                   | 00991125                                                                                                                                                                                                                       |
| Lap                                      | Overlap                                                                                                                                                                                                                        |
| Variants                                 | Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. |
| Signal status display                    | LED                                                                                                                                                                                                                            |
| Pilot pressure MPa                       | 0.15 MPa ... 0.8 MPa                                                                                                                                                                                                           |
| Pilot pressure                           | 1.5 bar ... 8 bar                                                                                                                                                                                                              |
| Max. switching frequency                 | 3 Hz                                                                                                                                                                                                                           |
| Changeover time                          | 9 ms                                                                                                                                                                                                                           |
| Duty cycle                               | 100%                                                                                                                                                                                                                           |
| Max. positive test pulse with 0 signal   | 1600 µs                                                                                                                                                                                                                        |
| Max. negative test pulse on 1 signal     | 3000 µs                                                                                                                                                                                                                        |
| Coil characteristics                     | 22 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 |
| Shock resistance                                   | Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27                |
| Corrosion resistance class (CRC)                   | 0 - No corrosion stress                                                              |
| LABS (PWIS) conformity                             | VDMA24364 zone III                                                                   |
| Suitability for the production of Li-ion batteries | Suitable for battery production with reduced Cu/Zn/Ni values (F1a)                   |
| Cleanroom class                                    | Class 6 according to ISO 14644-1                                                     |
| 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                                     | 60 g                                                                                 |
| Electrical connection                              | Via sub-base                                                                         |
| Type of mounting                                   | On terminal strip                                                                    |
| Note on materials                                  | RoHS-compliant                                                                       |
| Seals material                                     | HNBR<br>NBR                                                                          |
| Housing material                                   | Wrought aluminum alloy                                                               |