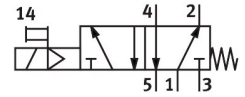


# Solenoid valve VUVG-L18-M52-MT-G14-1H2L-F1A

Part number: 8172836

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                | Value                                            |
|----------------------------------------|--------------------------------------------------|
| Valve function                         | 5/2, monostable                                  |
| Actuation type                         | Electrical                                       |
| Valve size                             | 18 mm                                            |
| Standard nominal flow rate             | 1300 l/min                                       |
| Pneumatic working port                 | G1/4                                             |
| Operating voltage                      | 24V DC                                           |
| Operating pressure                     | 0.3 MPa ... 0.8 MPa                              |
| Operating pressure                     | 3 bar ... 8 bar                                  |
| Structural design                      | Piston gate valve                                |
| Reset method                           | Mechanical spring                                |
| Certification                          | RCM compliance mark<br>c UL us - Recognized (OL) |
| Certificate issuing authority          | UL MH19482                                       |
| Degree of protection                   | IP40                                             |
| Nominal width                          | 6.9 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                  | Internal                                         |
| Symbol                                 | 00991003                                         |
| Lap                                    | Indefinite overlap                               |
| Pilot pressure MPa                     | 0.3 MPa ... 0.8 MPa                              |
| Pilot pressure                         | 3 bar ... 8 bar                                  |
| Suitability for vacuum                 | no                                               |
| Switching time off                     | 57 ms                                            |
| On switching time                      | 13 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: 0.8 W                                   |
| Permissible voltage fluctuations       | +/- 10 %                                         |
| Operating medium                       | Compressed air as per ISO 8573-1:2010 [7:4:4]    |

| Feature                                            | Value                                                                                |
|----------------------------------------------------|--------------------------------------------------------------------------------------|
| 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 |
| 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)                   | 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 5 according to ISO 14644-1                                                     |
| Storage temperature                                | -20 °C ... 60 °C                                                                     |
| Temperature of medium                              | -5 °C ... 50 °C                                                                      |
| Ambient temperature                                | -5 °C ... 50 °C                                                                      |
| Product weight                                     | 154 g                                                                                |
| Electrical connection                              | 2-pin<br>Connection diagram H, horizontal connection<br>Plug                         |
| Type of mounting                                   | With through-hole                                                                    |
| Pneumatic connection 1                             | G1/4                                                                                 |
| Pneumatic connection 2                             | G1/4                                                                                 |
| Pneumatic connection 3                             | G1/4                                                                                 |
| Pneumatic connection 4                             | G1/4                                                                                 |
| Pneumatic connection 5                             | G1/4                                                                                 |
| Note on materials                                  | RoHS-compliant                                                                       |
| Seals material                                     | HNBR<br>NBR                                                                          |
| Housing material                                   | Wrought aluminum alloy                                                               |
| Material of screws                                 | Steel, coated                                                                        |