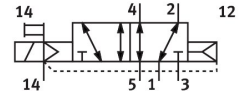
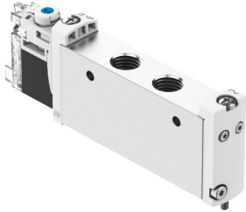


# Solenoid valve

## VUVG-L14-M52-AZT-G18-1H2L-F1A

Part number: 8164567

**FESTO**



## Data sheet

| Feature                                           | Value                                            |
|---------------------------------------------------|--------------------------------------------------|
| Valve function                                    | 5/2-way, monostable                              |
| Actuation type                                    | Electrical                                       |
| Valve size                                        | 14 mm                                            |
| Normal nominal flow rate (normalized to DIN 1343) | 730 l/min                                        |
| Pneumatic working port                            | G1/8                                             |
| Operating voltage                                 | 24V DC                                           |
| Operating pressure                                | -0.09 MPa...1 MPa<br>-0.9 bar...10 bar           |
| Structural design                                 | Piston gate valve                                |
| Reset method                                      | Pneumatic spring                                 |
| Certification                                     | RCM compliance mark<br>c UL us - recognized (OL) |
| Certificate issuing authority                     | UL MH19482                                       |
| Degree of protection                              | IP40                                             |
| Nominal width                                     | 5.6 mm                                           |
| Exhaust air function                              | Adjustable                                       |
| Sealing principle                                 | Soft                                             |
| Mounting position                                 | Any                                              |
| Manual override                                   | Detenting<br>Non-detenting<br>Covered            |
| Type of control                                   | Piloted                                          |
| Pilot air supply port                             | External                                         |
| Lap                                               | Positive overlap                                 |
| Pilot pressure MPa                                | 0.25 MPa...0.8 MPa                               |
| Pilot pressure                                    | 2.5 bar...8 bar                                  |
| Suitability for vacuum                            | Yes                                              |
| Switching time off                                | 29 ms                                            |
| On switching time                                 | 16 ms                                            |
| Duty cycle                                        | 100%                                             |
| Max. positive test pulse with 0 signal            | 700 µs                                           |
| Max. negative test pulse on 1 signal              | 900 µs                                           |

| Feature                                                   | Value                                                                                |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------|
| 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]                                        |
| 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 current 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 suitability, measured according to ISO 14644-14 | Class 5 according to ISO 14644-1                                                     |
| Storage temperature                                       | -20 °C...60 °C                                                                       |
| Temperature of medium                                     | -5 °C...50 °C                                                                        |
| Pilot medium                                              | Compressed air as per ISO 8573-1:2010 [7:4:4]                                        |
| Ambient temperature                                       | -5 °C...50 °C                                                                        |
| Product weight                                            | 78 g                                                                                 |
| Electrical connection                                     | 2-pin<br>Connection diagram H, horizontal connection<br>Plug                         |
| Type of mounting                                          | Alternatively:<br>On terminal strip<br>With through-hole                             |
| Pilot air port 12/14                                      | M5                                                                                   |
| Pneumatic connection 1                                    | G1/8                                                                                 |
| Pneumatic connection 2                                    | G1/8                                                                                 |
| Pneumatic connection 3                                    | G1/8                                                                                 |
| Pneumatic connection 4                                    | G1/8                                                                                 |
| Pneumatic connection 5                                    | G1/8                                                                                 |
| Note on materials                                         | RoHS compliant                                                                       |
| Seals material                                            | HNBR<br>NBR                                                                          |
| Housing material                                          | Wrought aluminum alloy                                                               |
| Material of screws                                        | Coated steel                                                                         |