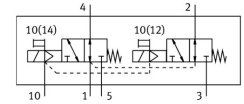
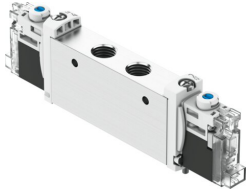


# Solenoid valve

## VUVG-L14-T32U-MZT-G18-1H2L-F1A

Part number: 8164564

FESTO



 General operating condition

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function                                    | 2x3/2, open, monostable                          |
| Actuation type                                    | Electrical                                       |
| Valve size  | 14 mm  |
| Normal nominal flow rate (normalized to DIN 1343) | 500 l/min  |
| Pneumatic working port                            | G1/8   |
| Operating voltage                                 | 24V DC   |
| Operating pressure                                | -0.09 MPa ... 1 MPa                              |
| Operating pressure                                | -0.9 bar ... 10 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                                     | 4.3 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  | 00992949   |
| Lap   | Overlap  |
| Pilot pressure MPa                                | 0.2 MPa ... 0.8 MPa                              |
| Pilot pressure                                    | 2 bar ... 8 bar                                  |
| Suitability for vacuum                            | yes  |
| Switching time off                                | 24 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   |
| 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 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  | 80 g   |
| Electrical connection                                     | Plug   |
| Type of mounting  | 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  | Steel, coated  |