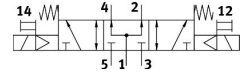
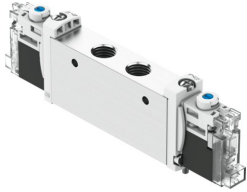


# Solenoid valve

## VUVG-L14-P53U-T-G18-1H2L-F1A

FESTO

Part number: 8164560



 [General operating condition](#)

## Data sheet

| Feature   | Value                                   |
|---|---|
| Valve function  | 5/3-way, pressurised                    |
| Type of actuation                                     | Electrical                              |
| Valve size  | 14 mm                                   |
| Standard nominal flow rate (standardised to DIN 1343) | 550 l/min                               |
| pneumatic working port                                | G1/8                                    |
| Operating voltage                                     | 24 V DC                                 |
| Operating pressure                                    | 0.3 MPa ... 0.8 MPa                     |
| Operating pressure                                    | 3 bar ... 8 bar                         |
| Design  | Piston gate valve                       |
| Type of reset   | Mechanical spring                       |
| Approval  | RCM<br>c UL us - Recognised (Oil)       |
| Certificate issuing authority                         | UL MH19482                              |
| Degree of protection                                  | IP40                                    |
| Nominal size  | 5.6 mm                                  |
| Exhaust-air function                                  | Can be throttled                        |
| Sealing principle                                     | Soft                                    |
| Mounting position                                     | Any                                     |
| Manual override                                       | Detenting<br>Non-detenting<br>Concealed |
| Type of piloting                                      | Piloted                                 |
| Pilot air supply                                      | Internal                                |
| Symbol  | 00992895                                |
| lap   | Overlap                                 |
| Pilot pressure  | 0.3 MPa ... 0.8 MPa                     |
| Pilot pressure  | 3 bar ... 8 bar                         |
| Suitability for vacuum                                | No                                      |
| Switching time off                                    | 45 ms                                   |
| Switching time on                                     | 15 ms                                   |
| Switching time reversal                               | 28 ms                                   |
| Duty cycle  | 100%                                    |
| Max. positive test pulse with 0 signal                | 700 µs                                  |
| Max. negative test pulse with 1 signal                | 900 µs                                  |
| Characteristic coil data                              | 24 V DC: 0.8 W                          |
| Permissible voltage fluctuations                      | +/-10%                                  |

| Feature   | Value  |
|---|--|
| Operating medium  | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Note on operating and pilot medium                        | Lubricated operation possible (in which case lubricated operation will always be required) |
| Vibration resistance                                      | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6           |
| Restrictions for environmental and media temperature      | -5 - 50 °C<br>Without holding current reduction  |
| Shock resistance  | Shock test with severity level 2 to 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   |
| Media temperature   | -5 °C ... 50 °C  |
| Ambient temperature                                       | -5 °C ... 50 °C  |
| Product weight  | 89 g   |
| Electrical connection                                     | Plug   |
| Type of mounting  | On manifold rail<br>With through-hole  |
| Pneumatic connection, port 1                              | G1/8   |
| Pneumatic connection, port 2                              | G1/8   |
| Pneumatic connection, port 3                              | G1/8   |
| Pneumatic connection, port 4                              | G1/8   |
| Pneumatic connection, port 5                              | G1/8   |
| Note on materials   | RoHS compliant   |
| Material seals  | HNBR<br>NBR  |
| Material housing  | Wrought aluminium alloy  |
| Material screws   | Coated steel   |