

# Solenoid valve

## VUVG-B10-P53E-ZT-F-1T1L-F1A

FESTO

Part number: 8141522



 [General operating condition](#)

## Data sheet

| Feature   | Value                                     |
|---|---|
| Valve function  | 5/3 exhausted                             |
| Type of actuation                                     | Electrical                                |
| Valve size  | 10 mm                                     |
| Standard nominal flow rate (standardised to DIN 1343) | 200 l/min                                 |
| pneumatic working port                                | Flange                                    |
| Operating voltage                                     | 24 V DC                                   |
| Operating pressure                                    | -0.09 MPa ... 1 MPa                       |
| Operating pressure                                    | -0.9 bar ... 10 bar                       |
| Design  | Piston gate valve                         |
| Type of reset   | Mechanical spring                         |
| Approval  | c UL us - Recognised (Oil)                |
| Degree of protection                                  | IP40                                      |
| Exhaust-air function                                  | Can be throttled                          |
| Sealing principle                                     | Soft                                      |
| Mounting position                                     | Any                                       |
| Manual override                                       | Detenting<br>Non-detenting                |
| Type of piloting                                      | Piloted                                   |
| Pilot air supply                                      | External                                  |
| Flow direction  | Reversible                                |
| Symbol  | 00991127                                  |
| lap   | Indeterminate overlap                     |
| Signal status display                                 | LED                                       |
| Pilot pressure  | 0.3 MPa ... 0.8 MPa                       |
| Pilot pressure  | 3 bar ... 8 bar                           |
| Max. switching frequency                              | 3 Hz                                      |
| Switching time off                                    | 38 ms                                     |
| Switching time on                                     | 12 ms                                     |
| Switching time reversal                               | 16 ms                                     |
| Duty cycle  | 100%                                      |
| Max. positive test pulse with 0 signal                | 1600 µs                                   |
| Max. negative test pulse with 1 signal                | 3000 µs                                   |
| Characteristic coil data                              | 22 V DC: 1.0 W                            |
| Permissible voltage fluctuations                      | +/-10%                                    |
| Operating medium                                      | Compressed air to ISO 8573-1:2010 [7:4:4] |

| Feature   | Value  |
|---|--|
| 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           |
| 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 6 according to ISO 14644-1   |
| Media temperature   | -5 °C ... 60 °C  |
| Pilot medium  | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Ambient temperature                                       | -5 °C ... 60 °C  |
| Product weight  | 58 g   |
| Electrical connection                                     | Via E-box  |
| Type of mounting  | On manifold rail   |
| Note on materials   | RoHS compliant   |
| Material seals  | HNBR<br>NBR  |
| Material housing  | Wrought aluminium alloy  |