

# Solenoid valve

## VUVG-B10-P53C-ZT-F-1T1L-F1A

FESTO

Part number: 8141521



 [General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function                                    | 5/3, closed  |
| Actuation type                                    | Electrical   |
| Valve size  | 10 mm  |
| Normal nominal flow rate (normalized to DIN 1343) | 200 l/min  |
| Pneumatic working port                            | Flange   |
| 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                                     | c UL us - Recognized (OL)  |
| Degree of protection                              | IP40   |
| Exhaust air function                              | With flow control option   |
| Sealing principle                                 | Soft   |
| Mounting position                                 | Any  |
| Manual override                                   | Detenting<br>Non-detenting   |
| Type of control                                   | Pilot-controlled   |
| Pilot air supply port                             | External   |
| Flow direction                                    | Reversible   |
| Symbol  | 00991126   |
| Lap   | Overlap  |
| Signal status display                             | LED  |
| Pilot pressure MPa                                | 0.3 MPa ... 0.8 MPa  |
| Pilot pressure                                    | 3 bar ... 8 bar  |
| Max. switching frequency                          | 3 Hz   |
| Switching time off                                | 38 ms  |
| On switching time                                 | 12 ms  |
| Changeover time                                   | 16 ms  |
| Duty cycle  | 100%   |
| Max. positive test pulse with 0 signal            | 1600 µs  |
| Max. negative test pulse on 1 signal              | 3000 µs  |
| Coil characteristics                              | 22 V DC: 1.0 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) |

| Feature   | Value  |
|---|--|
| Vibration resistance                                      | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| 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 6 according to ISO 14644-1   |
| Temperature of medium                                     | -5 °C ... 60 °C  |
| Pilot medium  | Compressed air as per ISO 8573-1:2010 [7:4:4]  |
| Ambient temperature                                       | -5 °C ... 60 °C  |
| Product weight  | 58 g   |
| Electrical connection                                     | Via sub-base   |
| Type of mounting  | On terminal strip  |
| Note on materials   | RoHS-compliant   |
| Seals material  | HNBR<br>NBR  |
| Housing material  | Wrought aluminum alloy   |