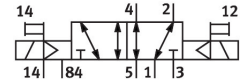
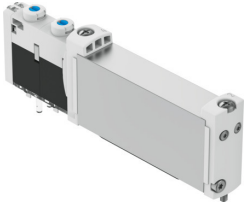


# Solenoid valve

## VUVG-B14-B52-ZT-F-1T1L-F1A

Part number: 8150401

**FESTO**



## Data sheet

| Feature   | Value  |
|---|--|
| Valve function  | 5/2 double solenoid  |
| Type of actuation                                     | Electric   |
| Valve size  | 14 mm  |
| Standard nominal flow rate (standardised to DIN 1343) | 510 l/min  |
| pneumatic working port                                | Flange   |
| Operating voltage                                     | 24V DC   |
| Operating pressure                                    | -0.09 MPa...1 MPa<br>-0.9 bar...10 bar   |
| Design  | Piston gate valve  |
| Approval  | c UL us - Recognized (OL)  |
| Degree of protection                                  | IP40   |
| Exhaust-air function                                  | With flow control option   |
| Sealing principle                                     | Soft   |
| Mounting position                                     | optional   |
| Manual override                                       | Detenting<br>Non-detenting   |
| Type of piloting                                      | Pilot actuated   |
| Pilot air supply                                      | External   |
| Flow direction  | Reversible   |
| lap   | Overlap  |
| Variants  | Metals with copper, zinc or nickel by mass as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. |
| Signal status display                                 | LED  |
| Pilot pressure  | 0.15 MPa...0.8 MPa<br>1.5 bar...8 bar  |
| Max. switching frequency                              | 3 Hz   |
| Switching time reversal                               | 9 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   |

| Feature  | Value  |
|--|--|
| Permissible voltage fluctuations                   | +/- 10 %   |
| 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   |
| 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 | Product corresponds to the internal product definition from Festo for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class                                    | 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                                     | 98 g   |
| Electrical connection                              | Via sub-base   |
| Type of mounting                                   | On manifold rail   |
| Note on materials                                  | RoHS-compliant   |
| Material seals                                     | HNBR<br>NBR  |
| Material housing                                   | Wrought aluminium alloy  |