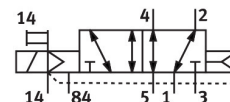
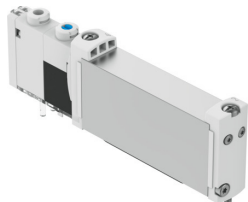


# Solenoid valve

## VUVG-B14-M52-AZT-F-1T1L-F1A

Part number: 8150400

**FESTO**



## Data sheet

| Feature                                | Value  |
|--|--|
| Valve function                         | 5/2, monostable  |
| Actuation type                         | Electrical   |
| Valve size                             | 14 mm  |
| Standard nominal flow rate             | 500 l/min  |
| Pneumatic working port                 | Flange   |
| Operating voltage                      | 24V DC   |
| Operating pressure                     | -0.09 MPa...1 MPa<br>-0.9 bar...10 bar   |
| Structural design                      | Piston gate valve  |
| Reset method                           | Pneumatic 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   |
| 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 MPa                     | 0.15 MPa...0.8 MPa   |
| Pilot pressure                         | 1.5 bar...8 bar  |
| Max. switching frequency               | 3 Hz   |
| Switching time off                     | 26 ms  |
| On switching time                      | 13 ms  |
| Duty cycle                             | 100%   |
| Max. positive test pulse with 0 signal | 1600 µs  |

| Feature  | Value   |
|--|---|
| 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)  |
| 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 | Product corresponds to Festo's internal product definition 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, circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class                                    | 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                                     | 91 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  |