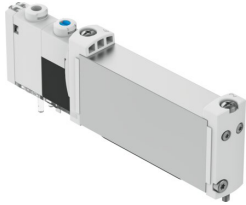


# Solenoid valve

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

FESTO

Part number: 8150400



[General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function  | 5/2-way, single solenoid   |
| Type of actuation                                     | Electrical   |
| Valve size  | 14 mm  |
| Standard nominal flow rate (standardised to DIN 1343) | 500 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   | Pneumatic 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  | 00991053   |
| lap   | Overlap  |
| Signal status display                                 | LED  |
| Pilot pressure  | 0.15 MPa ... 0.8 MPa   |
| Pilot pressure  | 1.5 bar ... 8 bar  |
| Max. switching frequency                              | 3 Hz   |
| Switching time off                                    | 26 ms  |
| Switching time on                                     | 13 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]  |
| Note on operating and pilot medium                    | Lubricated operation possible (in which case lubricated operation will always be required) |

| Feature   | Value  |
|---|--|
| 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  | 91 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  |