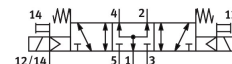
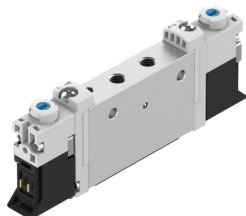


# Solenoid valve

## VUVG-L10-P53U-ZT-M5-1P3

Part number: 566470

**FESTO**



## Data sheet

| Feature                                               | Value                                                                                               |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Valve function                                        | 5/3-way, pressurised                                                                                |
| Type of actuation                                     | Electric                                                                                            |
| Valve size                                            | 10 mm                                                                                               |
| Standard nominal flow rate (standardised to DIN 1343) | 210 l/min                                                                                           |
| pneumatic working port                                | M5                                                                                                  |
| Operating voltage                                     | 24V DC                                                                                              |
| Operating pressure                                    | -0.09 MPa...1 MPa<br>-0.9 bar...10 bar                                                              |
| Design                                                | Piston gate valve                                                                                   |
| Type of reset                                         | Mechanical spring                                                                                   |
| Approval                                              | RCM trademark<br>c UL us - Recognized (OL)                                                          |
| CE mark (see declaration of conformity)               | To EU EMC Directive<br>To EU Low Voltage Directive<br>In accordance with EU RoHS Directive          |
| UKCA marking (see declaration of conformity)          | To UK instructions for EMC<br>To UK RoHS instructions<br>To UK regulations for electrical equipment |
| Degree of protection                                  | IP40<br>IP65<br>With plug socket                                                                    |
| Nominal size                                          | 3.2 mm                                                                                              |
| Exhaust-air function                                  | With flow control option                                                                            |
| Sealing principle                                     | Soft                                                                                                |
| Mounting position                                     | optional                                                                                            |
| Manual override                                       | Detenting<br>Non-detenting<br>Covered                                                               |
| Type of piloting                                      | Pilot actuated                                                                                      |
| Pilot air supply                                      | External                                                                                            |
| lap                                                   | Indefinite overlap                                                                                  |
| Pilot pressure                                        | 0.3 MPa...0.8 MPa<br>3 bar...8 bar                                                                  |
| Suitability for vacuum                                | yes                                                                                                 |

| Feature                                                   | Value                                                                                      |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Switching time off                                        | 30 ms                                                                                      |
| Switching time on                                         | 11 ms                                                                                      |
| Switching time reversal                                   | 14 ms                                                                                      |
| Duty cycle                                                | 100%                                                                                       |
| Max. positive test pulse with 0 signal                    | 700 µs                                                                                     |
| Max. negative test pulse with 1 signal                    | 900 µs                                                                                     |
| Characteristic coil data                                  | 24 V DC: 1.0 W<br>24 V DC: low-current phase 0.3 W, high-current phase 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) |
| Vibration resistance                                      | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6           |
| Restrictions for environmental and media temperature      | -5 ... 50° C<br>Without holding current reduction                                          |
| Shock resistance                                          | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27                          |
| Corrosion resistance class CRC                            | 2 - Moderate corrosion stress                                                              |
| LABS (PWIS) conformity                                    | VDMA24364-B1/B2-L                                                                          |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 5 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                                            | 55 g                                                                                       |
| Electrical connection                                     | Via electrical sub-base                                                                    |
| Type of mounting                                          | Either:<br>On manifold rail<br>With through-hole                                           |
| Pilot air port 12/14                                      | M3                                                                                         |
| Pneumatic connection, port 1                              | M5                                                                                         |
| Pneumatic connection, port 2                              | M5                                                                                         |
| Pneumatic connection, port 3                              | M5                                                                                         |
| Pneumatic connection, port 4                              | M5                                                                                         |
| Pneumatic connection, port 5                              | M5                                                                                         |
| Note on materials                                         | RoHS-compliant                                                                             |
| Material seals                                            | HNBR<br>NBR                                                                                |
| Material housing                                          | Wrought aluminium alloy                                                                    |