

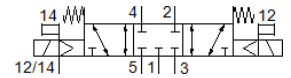
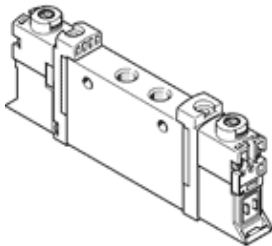
# solenoid valve

## VUVG-L10-P53C-ZT-M5-1P3

Part number: 566468

FESTO

This type is suitable for vacuum.



## Data sheet

| Feature                                    | Value  |
|--|--|
| Valve function                             | 5/3 closed   |
| Type of actuation                          | electrical   |
| Valve size                                 | 10 mm  |
| Standard nominal flow rate                 | 210 l/min  |
| Operating pressure MPa                     | -0.09 ... 1 MPa  |
| Operating pressure                         | -0.9 ... 10 bar  |
| Design structure                           | Piston slide   |
| Type of reset                              | mechanical spring  |
| Authorisation                              | RCM Mark<br>c UL us - Recognized (OL)  |
| Protection class                           | IP40<br>IP65<br>with plug socket   |
| Nominal size                               | 3.2 mm   |
| Exhaust-air function                       | throttleable   |
| Sealing principle                          | soft   |
| Assembly position                          | Any  |
| Manual override                            | detenting<br>Pushing<br>Covered  |
| Type of piloting                           | Piloted  |
| Pilot air supply                           | external   |
| Overlap                                    | Positive overlap   |
| Pilot pressure MPa                         | 0.3 ... 0.8 MPa  |
| Pilot pressure                             | 3 ... 8 bar  |
| Suitability for vacuum                     | Yes  |
| Switching time off                         | 30 ms  |
| Switching time on                          | 11 ms  |
| Switching time reversal                    | 14 ms  |
| Duty cycle                                 | 100 %  |
| Max. positive test pulse with logic 0      | 700 µs   |
| Max. negative test pulse with logic 1      | 900 µs   |
| Characteristic coil data                   | 24 V DC: 1 W<br>24 V DC: low-current phase 0.3 W, high-current phase 1.0 W                     |
| Permissible voltage fluctuation            | +/- 10 %   |
| Operating medium                           | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                                       |
| Note on operating and pilot medium         | Lubricated operation possible (subsequently required for further operation)                    |
| Vibration resistance                       | Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 |
| Restriction ambient and medium temperature | Without holding current reduction<br>-5 - 50 °C  |
| Shock resistance                           | Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27              |

| Feature                                 | Value  |
|---|--|
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress                            |
| PWIS conformity                         | VDMA24364-B1/B2-L  |
| Medium temperature                      | -5 ... 60 °C   |
| Pilot medium                            | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Ambient temperature                     | -5 ... 60 °C   |
| Product weight                          | 55 g   |
| Electrical connection                   | Via electrical connection plate                          |
| Mounting type                           | on manifold rail<br>with through hole<br>Optional        |
| Auxiliary 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   |
| Materials note                          | Conforms to RoHS   |
| Material seals                          | HNBR<br>NBR  |
| Material housing                        | Wrought Aluminium alloy                                  |