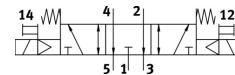
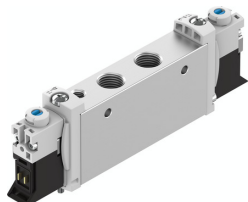


# Solenoid valve VUVG-L14-P53E-T-G18-1P3

Part number: 566502

FESTO



 General operating condition

## Data sheet

| Feature                                | Value                                                                        |
|----------------------------------------|------------------------------------------------------------------------------|
| Valve function                         | 5/3 exhausted                                                                |
| Type of actuation                      | Electric                                                                     |
| Valve size                             | 14 mm                                                                        |
| Standard nominal flow rate             | 560 l/min                                                                    |
| pneumatic working port                 | G1/8                                                                         |
| Operating voltage                      | 24V DC                                                                       |
| Operating pressure                     | 0.3 MPa ... 0.8 MPa                                                          |
| Operating pressure                     | 3 bar ... 8 bar                                                              |
| Design                                 | Piston gate valve                                                            |
| Type of reset                          | Mechanical spring                                                            |
| Approval                               | RCM trademark<br>c UL us - Recognized (OL)                                   |
| Degree of protection                   | IP40<br>IP65<br>With plug socket                                             |
| Nominal size                           | 5.6 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                       | Internal                                                                     |
| Symbol                                 | 00992894                                                                     |
| lap                                    | Overlap                                                                      |
| Pilot pressure                         | 0.3 MPa ... 0.8 MPa                                                          |
| Pilot pressure                         | 3 bar ... 8 bar                                                              |
| Suitability for vacuum                 | no                                                                           |
| Switching time off                     | 40 ms                                                                        |
| Switching time on                      | 12 ms                                                                        |
| Switching time reversal                | 20 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 |

| 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           |
| 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                                                                          |
| Media temperature                                    | -5 °C ... 60 °C                                                                            |
| Ambient temperature                                  | -5 °C ... 60 °C                                                                            |
| Product weight                                       | 89 g                                                                                       |
| Electrical connection                                | Via electrical sub-base                                                                    |
| Type of mounting                                     | Either:<br>On manifold rail<br>With through-hole                                           |
| Pneumatic connection, port 1                         | G1/8                                                                                       |
| Pneumatic connection, port 2                         | G1/8                                                                                       |
| Pneumatic connection, port 3                         | G1/8                                                                                       |
| Pneumatic connection, port 4                         | G1/8                                                                                       |
| Pneumatic connection, port 5                         | G1/8                                                                                       |
| Note on materials                                    | RoHS-compliant                                                                             |
| Material seals                                       | HNBR<br>NBR                                                                                |
| Material housing                                     | Wrought aluminium alloy                                                                    |