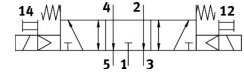


# Solenoid valve VUVG-L18-P53E-T-G14-1P3

Part number: 574432

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                               | Value                                                                                      |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                                        | 5/3 exhausted                                                                              |
| Type of actuation                                     | Electrical                                                                                 |
| Valve size                                            | 18 mm                                                                                      |
| Standard nominal flow rate (standardised to DIN 1343) | 910 l/min                                                                                  |
| pneumatic working port                                | G1/4                                                                                       |
| Operating voltage                                     | 24 V 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<br>c UL us - Recognised (Oil)                                                          |
| 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 RoHS instructions<br>To UK regulations for electrical equipment                      |
| Degree of protection                                  | IP40<br>IP65<br>With plug socket                                                           |
| Nominal size                                          | 6.3 mm                                                                                     |
| Exhaust-air function                                  | Can be throttled                                                                           |
| Sealing principle                                     | Soft                                                                                       |
| Mounting position                                     | Any                                                                                        |
| Manual override                                       | Detenting<br>Non-detenting<br>Concealed                                                    |
| Type of piloting                                      | Piloted                                                                                    |
| Pilot air supply                                      | Internal                                                                                   |
| Symbol                                                | 00992894                                                                                   |
| lap                                                   | Indeterminate overlap                                                                      |
| Pilot pressure                                        | 0.3 MPa ... 0.8 MPa                                                                        |
| Pilot pressure                                        | 3 bar ... 8 bar                                                                            |
| Switching time off                                    | 48 ms                                                                                      |
| Switching time on                                     | 15 ms                                                                                      |
| Switching time reversal                               | 29 ms                                                                                      |
| Duty cycle                                            | 100%                                                                                       |
| Max. positive test pulse with 0 signal                | 700 µs                                                                                     |

| Feature                                                   | Value                                                                                      |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 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                                                                            |
| Ambient temperature                                       | -5 °C ... 60 °C                                                                            |
| Product weight                                            | 160 g                                                                                      |
| Electrical connection                                     | Via electrical sub-base                                                                    |
| Type of mounting                                          | On manifold rail<br>With through-hole                                                      |
| Pneumatic connection, port 1                              | G1/4                                                                                       |
| Pneumatic connection, port 2                              | G1/4                                                                                       |
| Pneumatic connection, port 3                              | G1/4                                                                                       |
| Pneumatic connection, port 4                              | G1/4                                                                                       |
| Pneumatic connection, port 5                              | G1/4                                                                                       |
| Note on materials                                         | RoHS compliant                                                                             |
| Material seals                                            | HNBR<br>NBR                                                                                |
| Material housing                                          | Wrought aluminium alloy                                                                    |