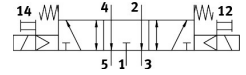


# Solenoid valve VUVG-L18-P53E-G14-P1

Part number: 8033557

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                               | Value                                                                                      |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                                        | 5/3 exhausted                                                                              |
| Type of actuation                                     | Electric                                                                                   |
| Valve size                                            | 18 mm                                                                                      |
| Standard nominal flow rate (standardised to DIN 1343) | 910 l/min                                                                                  |
| pneumatic working port                                | G1/4                                                                                       |
| Operating pressure                                    | 0.3 MPa ... 0.8 MPa                                                                        |
| Operating pressure                                    | 3 bar ... 8 bar                                                                            |
| Design                                                | Piston gate valve                                                                          |
| Type of reset                                         | Mechanical spring                                                                          |
| Approval                                              | c UL us - Recognized (OL)                                                                  |
| Certificate issuing authority                         | UL MH19482                                                                                 |
| Degree of protection                                  | IP65<br>With electric pilot valve and plug socket                                          |
| Nominal size                                          | 6.3 mm                                                                                     |
| Exhaust-air function                                  | With flow control option                                                                   |
| Sealing principle                                     | Soft                                                                                       |
| Mounting position                                     | optional                                                                                   |
| Type of piloting                                      | Pilot actuated                                                                             |
| Pilot air supply                                      | Internal                                                                                   |
| Symbol                                                | 00992894                                                                                   |
| lap                                                   | Indefinite overlap                                                                         |
| Pilot pressure                                        | 0.3 MPa ... 0.8 MPa                                                                        |
| Pilot pressure                                        | 3 bar ... 8 bar                                                                            |
| Switching time off                                    | 32 ms                                                                                      |
| Switching time on                                     | 15 ms                                                                                      |
| Switching time reversal                               | 21 ms                                                                                      |
| Duty cycle                                            | 100%                                                                                       |
| Max. positive test pulse with 0 signal                | 700 µs                                                                                     |
| Max. negative test pulse with 1 signal                | 900 µs                                                                                     |
| 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           |
| 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                                                              |

| Feature                      | Value                                            |
|------------------------------|--------------------------------------------------|
| LABS (PWIS) conformity       | VDMA24364-B1/B2-L                                |
| Cleanroom class              | Class 5 according to ISO 14644-1                 |
| Media temperature            | -5 °C ... 60 °C                                  |
| Ambient temperature          | -5 °C ... 60 °C                                  |
| Product weight               | 136 g                                            |
| Electrical connection        | Via electric pilot valve                         |
| Type of mounting             | Either:<br>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                                             |
| Pilot control interface      | To ISO 15218                                     |
| Note on materials            | RoHS-compliant                                   |
| Material seals               | HNBR<br>NBR                                      |
| Material housing             | Wrought aluminium alloy                          |