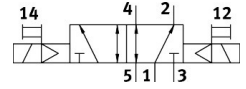


# Solenoid valve VUVG-L18-B52-T-G14-1P3

Part number: 574430

FESTO



 General operating condition

## Data sheet

| Feature                                               | Value                                                                                      |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                                        | 5/2 bistable                                                                               |
| Type of actuation                                     | Electric                                                                                   |
| Valve size                                            | 18 mm                                                                                      |
| Standard nominal flow rate (standardised to DIN 1343) | 1380 l/min                                                                                 |
| pneumatic working port                                | G1/4                                                                                       |
| Operating voltage                                     | 24V DC                                                                                     |
| Operating pressure                                    | 0.15 MPa ... 0.8 MPa                                                                       |
| Operating pressure                                    | 1.5 bar ... 8 bar                                                                          |
| Design                                                | Piston gate valve                                                                          |
| Approval                                              | RCM trademark<br>c UL us - Recognized (OL)                                                 |
| Degree of protection                                  | IP40<br>IP65<br>With plug socket                                                           |
| Nominal size                                          | 7.3 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                                                | 00992897                                                                                   |
| lap                                                   | Overlap                                                                                    |
| Pilot pressure                                        | 0.15 MPa ... 0.8 MPa                                                                       |
| Pilot pressure                                        | 1.5 bar ... 8 bar                                                                          |
| Switching time reversal                               | 11 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) |

| Feature                                              | Value                                                                            |
|------------------------------------------------------|----------------------------------------------------------------------------------|
| 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 class                                      | Class 5 according to ISO 14644-1                                                 |
| Media temperature                                    | -5 °C ... 60 °C                                                                  |
| Ambient temperature                                  | -5 °C ... 60 °C                                                                  |
| Product weight                                       | 164 g                                                                            |
| Electrical connection                                | Via electrical sub-base                                                          |
| 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                                                                             |
| Note on materials                                    | RoHS-compliant                                                                   |
| Material seals                                       | HNBR<br>NBR                                                                      |
| Material housing                                     | Wrought aluminium alloy                                                          |