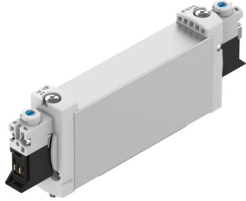


# Air solenoid valve VUVG-B18-P53E-ZT-F-1P3

FESTO

Part number: 574453



[General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function                                    | 5/3, exhausted   |
| Actuation type                                    | Electrical   |
| Valve size  | 18 mm  |
| Normal nominal flow rate (normalized to DIN 1343) | 950 l/min  |
| Pneumatic working port                            | Flange   |
| Operating voltage                                 | 24V DC   |
| Operating pressure                                | -0.09 MPa ... 1 MPa  |
| Operating pressure                                | -0.9 bar ... 10 bar  |
| Structural design                                 | Piston gate valve  |
| Reset method                                      | Mechanical spring  |
| Certification                                     | RCM compliance mark<br>c UL us - Recognized (OL)                                       |
| CE marking (see declaration of conformity)        | As per EU EMC directive<br>As per EU low voltage directive<br>As per EU RoHS directive |
| UKCA marking (see declaration of conformity)      | To UK RoHS instructions<br>To UK instructions for electrical equipment                 |
| Degree of protection                              | IP40<br>IP65<br>With plug socket   |
| Nominal width                                     | 6.3 mm   |
| Exhaust air function                              | With flow control option   |
| Sealing principle                                 | Soft   |
| Mounting position                                 | Any  |
| Manual override                                   | Detenting<br>Non-detenting<br>Covered  |
| Type of control                                   | Pilot-controlled   |
| Pilot air supply port                             | External   |
| Symbol  | 00991127   |
| Lap   | Indefinite overlap   |
| Pilot pressure MPa                                | 0.3 MPa ... 0.8 MPa  |
| Pilot pressure                                    | 3 bar ... 8 bar  |
| Switching time off                                | 48 ms  |
| On switching time                                 | 15 ms  |
| Changeover time                                   | 29 ms  |
| Duty cycle  | 100%   |
| Max. positive test pulse with 0 signal            | 700 µs   |

| Feature   | Value  |
|---|--|
| Max. negative test pulse on 1 signal                      | 900 µs   |
| Coil characteristics                                      | 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 as per ISO 8573-1:2010 [7:4:4]  |
| Information on operating and pilot media                  | Operation with oil lubrication possible (required for further use)                   |
| Vibration resistance                                      | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| Restricted ambient and media temperature                  | -5 - 50 °C<br>Without holding power reduction  |
| Shock resistance  | Shock test with severity level 2 as per 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   |
| Temperature of medium                                     | -5 °C ... 60 °C  |
| Pilot medium  | Compressed air as per ISO 8573-1:2010 [7:4:4]  |
| Ambient temperature                                       | -5 °C ... 60 °C  |
| Product weight  | 160 g  |
| Electrical connection                                     | Via electrical sub-base  |
| Type of mounting  | On terminal strip  |
| Note on materials   | RoHS-compliant   |
| Seals material  | HNBR<br>NBR  |
| Housing material  | Wrought aluminum alloy   |