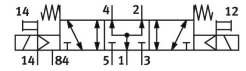
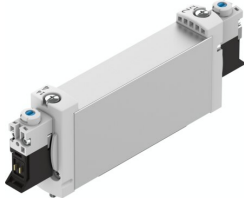


# Air solenoid valve VUVG-B18-P53U-ZT-F-1P3

Part number: 574454

**FESTO**



## Data sheet

| Feature                                           | Value                                                                                                |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Valve function                                    | 5/3-way, pressurized                                                                                 |
| 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<br>-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 instructions for EMC<br>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                              | Adjustable                                                                                           |
| Sealing principle                                 | Soft                                                                                                 |
| Mounting position                                 | Any                                                                                                  |
| Manual override                                   | Detenting<br>Non-detenting<br>Covered                                                                |
| Type of control                                   | Piloted                                                                                              |
| Pilot air supply port                             | External                                                                                             |
| Lap                                               | Indeterminate overlap                                                                                |
| Pilot pressure MPa                                | 0.3 MPa...0.8 MPa                                                                                    |
| Pilot pressure                                    | 3 bar...8 bar                                                                                        |
| Switching time off                                | 48 ms                                                                                                |

| Feature                                                   | Value                                                                                |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------|
| On switching time                                         | 15 ms                                                                                |
| Changeover time                                           | 29 ms                                                                                |
| Duty cycle                                                | 100%                                                                                 |
| Max. positive test pulse with 0 signal                    | 700 µs                                                                               |
| 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 current 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                                                               |