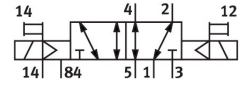
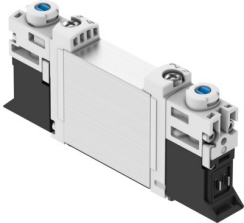


# Air solenoid valve VUVG-B10A-B52-ZT-F-1P3

FESTO

Part number: 566449



General operating condition

## Data sheet

| Feature                                  | Value                                                                        |
|------------------------------------------|------------------------------------------------------------------------------|
| Valve function                           | 5/2, bistable                                                                |
| Actuation type                           | Electrical                                                                   |
| Valve size                               | 10 mm                                                                        |
| Standard nominal flow rate               | 100 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                                                            |
| Certification                            | RCM compliance mark<br>c UL us - Recognized (OL)                             |
| Degree of protection                     | IP40<br>IP65<br>With plug socket                                             |
| Nominal width                            | 2 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                                   | 00991125                                                                     |
| Lap                                      | Overlap                                                                      |
| Pilot pressure MPa                       | 0.15 MPa ... 0.8 MPa                                                         |
| Pilot pressure                           | 1.5 bar ... 8 bar                                                            |
| Suitability for vacuum                   | yes                                                                          |
| Changeover time                          | 8 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)           |

| Feature                                  | Value                                                                                |
|------------------------------------------|--------------------------------------------------------------------------------------|
| 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 class                          | 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                           | 49 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                                                               |