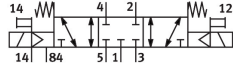
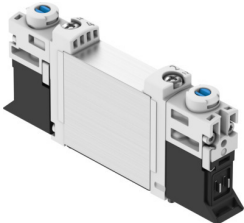


# Air solenoid valve

## VUVG-B10A-P53C-ZT-F-1P3

Part number: 566450

**FESTO**



## Data sheet

| Feature                                | Value  |
|--|--|
| Valve function                         | 5/3, closed                                      |
| Actuation type                         | Electrical                                       |
| Valve size                             | 10 mm  |
| Standard nominal flow rate             | 90 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) |
| 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   |
| Lap                                    | Overlap  |
| Pilot pressure MPa                     | 0.3 MPa...0.8 MPa                                |
| Pilot pressure                         | 3 bar...8 bar                                    |
| Suitability for vacuum                 | yes  |
| Switching time off                     | 25 ms  |
| On switching time                      | 8 ms   |
| Changeover time                        | 14 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 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   |