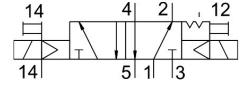
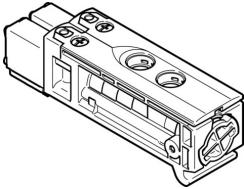


# Air solenoid valve

## VUVB-ST12-B52-ZH-QX-1T1

Part number: 557650

**FESTO**



## Data sheet

| Feature                                  | Value  |
|--|--|
| Valve function                           | 5/2, bistable  |
| Actuation type                           | Electrical   |
| Valve size                               | 24 mm  |
| Standard nominal flow rate               | 260 l/min...450 l/min  |
| Pneumatic working port                   | QS-4<br>QS-6   |
| Operating pressure                       | 0.28 MPa...0.8 MPa<br>2.8 bar...8 bar  |
| Structural design                        | Poppet valve with self-holding function  |
| Degree of protection                     | IP65   |
| Nominal width                            | 4 mm   |
| Exhaust air function                     | Without flow control option  |
| Sealing principle                        | Soft   |
| Mounting position                        | Any  |
| Manual override                          | Non-detenting  |
| Type of control                          | Pilot-controlled   |
| Pilot air supply port                    | External   |
| Flow direction                           | Non-reversible   |
| Information on operating pressure        | 0 – 0.8 bar with external pilot air<br>0 - 8 bar with external pilot air             |
| Pilot pressure MPa                       | 0.28 MPa...0.8 MPa   |
| Pilot pressure                           | 2.8 bar...8 bar  |
| Changeover time                          | 10 ms  |
| Duty cycle                               | 100%   |
| Max. positive test pulse with 0 signal   | 800 µs   |
| Max. negative test pulse on 1 signal     | 300 µs   |
| Coil characteristics                     | 24 V DC: 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 1 as per FN 942017-4 and EN 60068-2-6 |

| Feature                          | Value   |
|----------------------------------|---|
| Shock resistance                 | Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27 |
| Corrosion resistance class (CRC) | 0 - No corrosion stress   |
| LABS (PWIS) conformity           | VDMA24364-B1/B2-L   |
| Temperature of medium            | -5 °C...60 °C   |
| Noise level                      | 85 dB(A)  |
| Ambient temperature              | -5 °C...60 °C   |
| Product weight                   | 57.1 g  |
| Electrical connection            | Via sub-base  |
| Type of mounting                 | On sub-base   |
| Auxiliary pilot air port 14      | Sub-base  |
| Pneumatic connection 1           | Sub-base  |
| Pneumatic connection 3           | Sub-base  |
| Pneumatic connection 5           | Sub-base  |
| Note on materials                | RoHS-compliant  |
| Seals material                   | NBR<br>TPE-U(PU)  |
| Housing material                 | PA-reinforced   |
| Piston slide material            | Wrought aluminum alloy  |