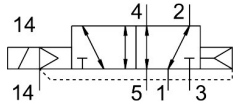


# Air solenoid valve

## VSVA-B-M52-AZ-D1-1T1L

Part number: 8034838

**FESTO**



## Data sheet

| Feature   | Value   |
|---|---|
| Valve function  | 5/2, monostable   |
| Actuation type  | Electrical  |
| Width   | 42 mm   |
| Standard nominal flow rate  | 1300 l/min  |
| Pneumatic working port  | Sub-base, size 1 as per ISO 5599-2<br>G3/8                                |
| Operating voltage   | 24V DC  |
| Operating pressure  | -0.09 MPa...1 MPa<br>-0.9 bar...10 bar                                    |
| Structural design   | Piston gate valve   |
| Reset method  | Pneumatic spring  |
| Certification   | c UL us - Recognized (OL)   |
| Degree of protection  | IP65<br>NEMA 4  |
| Exhaust air function  | With flow control option<br>Via throttle plate<br>Via individual sub-base |
| Sealing principle   | Soft  |
| Mounting position   | Any   |
| Manual override   | Covered   |
| Type of control   | Pilot-controlled  |
| Pilot air supply port   | External  |
| Flow direction  | Any   |
| Signal status display   | LED   |
| Pilot pressure MPa  | 0.3 MPa...1 MPa   |
| Pilot pressure  | 3 bar...10 bar  |
| Flow rate of pneumatic valve  | 1800 l/min  |
| Flow rate of pneumatic valve on individual sub-base                     | 1500 l/min  |
| Optimized flow rate of pneumatic valve, pneumatically concatenated flow | 1860 l/min  |
| Optimized flow rate of pneumatic valve pneumatically concatenated flow  | 1300 l/min  |
| Switching time off  | 45 ms   |
| On switching time   | 27 ms   |

| Feature                                   | Value  |
|---|--|
| Max. positive test pulse with 0 signal    | 1400 µs  |
| Max. negative test pulse on 1 signal      | 900 µs   |
| Nominal pick-up current per solenoid coil | 72 mA to 30 ms   |
| Coil characteristics                      | 24 V DC: 1.6 W   |
| Surge resistance                          | 2.5 kV   |
| Contamination level                       | 3  |
| 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 |
| Shock resistance                          | Shock test with severity level 2 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  |
| Relative air humidity                     | 0 - 90 %   |
| Ambient temperature                       | -5 °C...50 °C  |
| Product weight                            | 426 g  |
| Electrical connection                     | Plug-in<br>as per ISO 5599-2   |
| Type of mounting                          | On sub-base  |
| Pilot air port 12/14                      | Sub-base, size 1 as per ISO 5599-2   |
| Pilot exhaust air port 82/84              | Ducted<br>Not ducted as per standard<br>Optionally:                                  |
| Pneumatic connection 1                    | Sub-base, size 1 as per ISO 5599-2   |
| Pneumatic connection 2                    | Sub-base, size 1 as per ISO 5599-2   |
| Pneumatic connection 3                    | Sub-base, size 1 as per ISO 5599-2   |
| Pneumatic connection 4                    | Sub-base, size 1 as per ISO 5599-2   |
| Pneumatic connection 5                    | Sub-base, size 1 as per ISO 5599-2   |
| Note on materials                         | RoHS-compliant   |
| Seals material                            | FPM<br>HNBR<br>NBR   |
| Housing material                          | Die-cast aluminum<br>PA  |
| Material of screws                        | Steel, galvanized  |