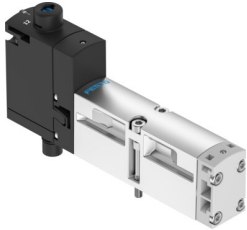


# Air solenoid valve VSVA-B-M52-AZD-A2-1T1L

FESTO

Part number: 539184



[General operating condition](#)

## Data sheet

| Feature   | Value   |
|---|---|
| Valve function  | 5/2, monostable   |
| Actuation type  | Electrical  |
| Width   | 18 mm   |
| Normal nominal flow rate (normalized to DIN 1343)                       | 550 l/min   |
| Pneumatic working port  | Sub-base, size 18 mm as per ISO 15407-1<br>Connecting plate size O2 according to VDMA 24563<br>G1/8 |
| Operating voltage   | 24V DC  |
| Operating pressure  | -0.09 MPa ... 1 MPa   |
| Operating pressure  | -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   | Detenting<br>Non-detenting<br>Covered   |
| Type of control   | Pilot-controlled  |
| Pilot air supply port   | External<br>Internal  |
| Flow direction  | Any   |
| Symbol  | 00991050  |
| Lap   | Overlap   |
| Signal status display   | LED   |
| Pilot pressure MPa  | 0.3 MPa ... 1 MPa   |
| Pilot pressure  | 3 bar ... 10 bar  |
| Flow rate of pneumatic valve  | 750 l/min   |
| Flow rate of pneumatic valve on individual sub-base                     | 600 l/min   |
| Optimized flow rate of pneumatic valve, pneumatically concatenated flow | 700 l/min   |
| Optimized flow rate of pneumatic valve pneumatically concatenated flow  | 550 l/min   |
| Switching time off  | 28 ms   |

| Feature                                  | Value  |
|--|--|
| On switching time                        | 22 ms  |
| Duty cycle                               | 100%   |
| Max. positive test pulse with 0 signal   | 1500 µs  |
| Max. negative test pulse on 1 signal     | 800 µs   |
| Max. current consumption                 | 72 mA  |
| Nominal operating voltage DC             | 24 V   |
| 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 %   |
| Pilot medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4]  |
| Ambient temperature                      | -5 °C ... 50 °C  |
| Product weight                           | 163 g  |
| Electrical connection                    | Plug-in<br>as per ISO 15407-2  |
| Type of mounting                         | On sub-base  |
| Pilot air port 12/14                     | Sub-base, size 18 mm as per ISO 15407-2  |
| Pilot exhaust air port 82/84             | Ducted<br>Not ducted as per standard<br>Optionally:                                  |
| Pneumatic connection 1                   | Sub-base, size 18 mm as per ISO 15407-2  |
| Pneumatic connection 2                   | Sub-base, size 18 mm as per ISO 15407-2  |
| Pneumatic connection 3                   | Sub-base, size 18 mm as per ISO 15407-2  |
| Pneumatic connection 4                   | Sub-base, size 18 mm as per ISO 15407-2  |
| Pneumatic connection 5                   | Sub-base, size 18 mm as per ISO 15407-2  |
| Note on materials                        | RoHS-compliant   |
| Seals material                           | FPM<br>HNBR<br>NBR   |
| Housing material                         | Die-cast aluminum<br>PA  |
| Material of screws                       | Steel, galvanized  |