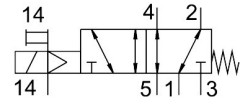


# Solenoid valve VSVA-B-M52-MZH-D1-F8-1B2

Part number: 8033724

**FESTO**



## Data sheet

| Feature                                              | Value                                    |
|------------------------------------------------------|------------------------------------------|
| Valve function                                       | 5/2-way, monostable                      |
| Actuation type                                       | Electrical                               |
| Width                                                | 42 mm                                    |
| Nominal flow rate standardized according to ISO 8778 | 1800 l/min                               |
| Pneumatic working port                               | Sub-base, size 1 according to ISO 5599-1 |
| Operating voltage                                    | 24V DC                                   |
| Operating pressure                                   | -0.09 MPa...1.6 MPa<br>-0.9 bar...16 bar |
| Structural design                                    | Piston gate valve                        |
| Reset method                                         | Mechanical spring                        |
| Degree of protection                                 | IP65<br>NEMA 4                           |
| Nominal width                                        | 8 mm                                     |
| Width dimension                                      | 43 mm                                    |
| Exhaust air function                                 | Adjustable<br>Via individual sub-base    |
| Sealing principle                                    | Soft                                     |
| Mounting position                                    | Any                                      |
| Conforms to standard                                 | ISO 5599-1                               |
| Manual override                                      | Non-detenting                            |
| Type of control                                      | Piloted                                  |
| Pilot air supply port                                | External                                 |
| Flow direction                                       | Reversible                               |
| Lap                                                  | Positive overlap                         |
| Pilot pressure MPa                                   | 0.3 MPa...1 MPa                          |
| Pilot pressure                                       | 3 bar...10 bar                           |
| Suitability for vacuum                               | Yes                                      |
| b-value                                              | 1.7                                      |
| C value                                              | 7.718 l/sbar                             |
| Flow rate of pneumatic valve                         | 1700 l/min                               |
| Flow rate of pneumatic valve on individual sub-base  | 1400 l/min                               |

| Feature                                                                 | Value                                                              |
|-------------------------------------------------------------------------|--------------------------------------------------------------------|
| Optimized flow rate of pneumatic valve, pneumatically concatenated flow | 1600 l/min                                                         |
| Optimized flow rate of pneumatic valve pneumatically concatenated flow  | 1400 l/min                                                         |
| Max. switching frequency                                                | 1 Hz                                                               |
| Switching time off                                                      | 52 ms                                                              |
| On switching time                                                       | 21 ms                                                              |
| Duty cycle                                                              | 100%                                                               |
| Coil characteristics                                                    | 24 V DC: 3.3 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) |
| LABS (PWIS) conformity                                                  | VDMA24364-B1/B2-L                                                  |
| Temperature of medium                                                   | -10 °C...50 °C                                                     |
| Relative air humidity                                                   | 0 - 90%                                                            |
| Noise level                                                             | 85 dB(A)                                                           |
| Pilot medium                                                            | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Ambient temperature                                                     | -10 °C...50 °C                                                     |
| Max. tightening torque for valve mounting                               | 1 Nm                                                               |
| Product weight                                                          | 407 g                                                              |
| Electrical connection                                                   | Form B                                                             |
| Type of mounting                                                        | On sub-base                                                        |
| Pilot exhaust air port 82                                               | M5<br>Not ducted                                                   |
| Pilot exhaust air port 84                                               | M5<br>Not ducted                                                   |
| Pilot air port 12                                                       | Sub-base, size 1 as per ISO 5599-1                                 |
| Pilot air port 14                                                       | Sub-base, size 1 as per ISO 5599-1                                 |
| Pneumatic connection 1                                                  | Sub-base, size 1 as per ISO 5599-1                                 |
| Pneumatic connection 2                                                  | Sub-base, size 1 as per ISO 5599-1                                 |
| Pneumatic connection 3                                                  | Sub-base, size 1 as per ISO 5599-1                                 |
| Pneumatic connection 4                                                  | Sub-base, size 1 as per ISO 5599-1                                 |
| Pneumatic connection 5                                                  | Sub-base, size 1 as per ISO 5599-1                                 |
| Pilot interface                                                         | As per ISO 15218                                                   |
| Note on materials                                                       | RoHS compliant                                                     |
| Seals material                                                          | NBR                                                                |
| Housing material                                                        | Die-cast aluminum                                                  |
| Material of screws                                                      | Steel                                                              |