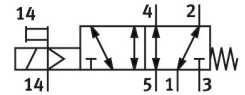


# Solenoid valve VSVA-B-M52-MZTR-D1-1T1L

Part number: 8034777

FESTO



 General operating condition

## Data sheet

| Feature                                               | Value                                                                     |
|-------------------------------------------------------|---------------------------------------------------------------------------|
| Valve function                                        | 5/2-way, monostable                                                       |
| Type of actuation                                     | Electric                                                                  |
| Construction width                                    | 42 mm                                                                     |
| Standard nominal flow rate (standardised to DIN 1343) | 1300 l/min                                                                |
| pneumatic working port                                | Sub-base size 1 to ISO 5599-2<br>G3/8                                     |
| Operating voltage                                     | 24V DC                                                                    |
| Operating pressure                                    | -0.09 MPa ... 1 MPa                                                       |
| Operating pressure                                    | -0.9 bar ... 10 bar                                                       |
| Design                                                | Piston gate valve                                                         |
| Type of reset                                         | Mechanical spring                                                         |
| Approval                                              | 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                                     | optional                                                                  |
| Manual override                                       | Detenting via accessory<br>Non-detenting                                  |
| Type of piloting                                      | Pilot actuated                                                            |
| Pilot air supply                                      | External                                                                  |
| Flow direction                                        | optional                                                                  |
| Symbol                                                | 00991190                                                                  |
| Signal status display                                 | LED                                                                       |
| Pilot pressure                                        | 0.3 MPa ... 1 MPa                                                         |
| Pilot pressure                                        | 3 bar ... 10 bar                                                          |
| Flow rate of valve                                    | 1800 l/min                                                                |
| Flow rate of valve on individual sub-base             | 1500 l/min                                                                |
| Valve flow rate, pneumatically linked, flow optimized | 1860 l/min                                                                |
| Flow rate of pneumatically interlinked valve          | 1300 l/min                                                                |
| Switching time off                                    | 60 ms                                                                     |
| Switching time on                                     | 22 ms                                                                     |
| Max. positive test pulse with 0 signal                | 1400 µs                                                                   |
| Max. negative test pulse with 1 signal                | 900 µs                                                                    |
| Nominal pick-up current per solenoid coil             | 72 mA to 30 ms                                                            |

| Feature                            | Value                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------|
| Characteristic coil data           | 24 V DC: 1.6 W                                                                             |
| Immunity to surge                  | 2.5 kV                                                                                     |
| Pollution degree                   | 3                                                                                          |
| Permissible voltage fluctuations   | +/- 10 %                                                                                   |
| Operating medium                   | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| Note on operating and pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) |
| Vibration resistance               | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6           |
| Shock resistance                   | Shock test with severity level 2 to 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>To ISO 5599-2                                                                   |
| Type of mounting                   | On sub-base                                                                                |
| Pilot air port 12/14               | Sub-base size 1 to ISO 5599-2                                                              |
| Pilot exhaust port 82/84           | Ducted<br>Not ducted as per standard<br>Either:                                            |
| Pneumatic connection, port 1       | Sub-base size 1 to ISO 5599-2                                                              |
| Pneumatic connection, port 2       | Sub-base size 1 to ISO 5599-2                                                              |
| Pneumatic connection, port 3       | Sub-base size 1 to ISO 5599-2                                                              |
| Pneumatic connection, port 4       | Sub-base size 1 to ISO 5599-2                                                              |
| Pneumatic connection, port 5       | Sub-base size 1 to ISO 5599-2                                                              |
| Note on materials                  | RoHS-compliant                                                                             |
| Material seals                     | FPM<br>HNBR<br>NBR                                                                         |
| Material housing                   | Die-cast aluminium<br>PA                                                                   |
| Material screws                    | Galvanised steel                                                                           |