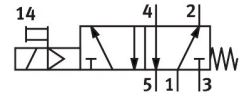


# Air solenoid valve VSVA-B-M52-MD-D1-1R5L

Part number: 561363

FESTO



General operating condition

## 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 according to ISO 5599-1<br>G1/4                          |
| Operating voltage                                                      | 24V DC                                                                    |
| Operating pressure                                                     | 0.3 MPa ... 1 MPa                                                         |
| Operating pressure                                                     | 3 bar ... 10 bar                                                          |
| Structural design                                                      | Piston gate valve                                                         |
| Reset method                                                           | Mechanical spring                                                         |
| Certification                                                          | c UL us - Recognized (OL)                                                 |
| Degree of protection                                                   | IP65<br>NEMA 4                                                            |
| Nominal width                                                          | 11 mm                                                                     |
| Width dimension                                                        | 43 mm                                                                     |
| Exhaust air function                                                   | With flow control option<br>Via throttle plate<br>Via individual sub-base |
| Sealing principle                                                      | Soft                                                                      |
| Mounting position                                                      | Any                                                                       |
| Conforms to standard                                                   | ISO 5599-1                                                                |
| Manual override                                                        | Detenting<br>Non-detenting                                                |
| Type of control                                                        | Pilot-controlled                                                          |
| Pilot air supply port                                                  | Internal                                                                  |
| Flow direction                                                         | Non-reversible                                                            |
| Symbol                                                                 | 00991003                                                                  |
| Lap                                                                    | Overlap                                                                   |
| Signal status display                                                  | LED                                                                       |
| Flow rate of pneumatic valve                                           | 2000 l/min                                                                |
| Flow rate of pneumatic valve on individual sub-base                    | 1400 l/min                                                                |
| Optimized flow rate of pneumatic valve pneumatically concatenated flow | 1300 l/min                                                                |
| Switching time off                                                     | 60 ms                                                                     |
| On switching time                                                      | 22 ms                                                                     |
| Duty cycle                                                             | 100%                                                                      |
| Max. positive test pulse with 0 signal                                 | 1400 µs                                                                   |

| Feature                                  | Value                                                                                |
|------------------------------------------|--------------------------------------------------------------------------------------|
| Max. negative test pulse on 1 signal     | 900 µs                                                                               |
| Coil characteristics                     | 24 V DC: 1.6 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 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                                                                    |
| Temperature of medium                    | -5 °C ... 50 °C                                                                      |
| 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                           | 426 g                                                                                |
| Electrical connection                    | 3-pin<br>M12x1<br>Central plug<br>Round design                                       |
| Type of mounting                         | On sub-base                                                                          |
| 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                                                   |
| Note on materials                        | RoHS-compliant                                                                       |
| Seals material                           | FPM<br>HNBR<br>NBR                                                                   |
| Housing material                         | Die-cast aluminum<br>PA                                                              |
| Material of screws                       | Steel<br>Galvanized                                                                  |