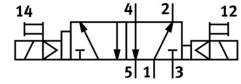


# Solenoid valve

## VSVA-B-D52-D-D1-1R5L

Part number: 561365

FESTO



General operating condition

## Data sheet

| Feature                                      | Value                                                                     |
|----------------------------------------------|---------------------------------------------------------------------------|
| Valve function                               | 5/2-way, bistable, dominant                                               |
| Type of actuation                            | Electric                                                                  |
| Construction width                           | 42 mm                                                                     |
| Standard nominal flow rate                   | 1300 l/min                                                                |
| pneumatic working port                       | Sub-base size 1 to ISO 5599-1<br>G1/4                                     |
| Operating voltage                            | 24V DC                                                                    |
| Operating pressure                           | 0.3 MPa ... 1 MPa                                                         |
| Operating pressure                           | 3 bar ... 10 bar                                                          |
| Design                                       | Piston gate valve                                                         |
| Approval                                     | c UL us - Recognized (OL)                                                 |
| Degree of protection                         | IP65<br>NEMA 4                                                            |
| Nominal size                                 | 11 mm                                                                     |
| Grid dimension                               | 43 mm                                                                     |
| Exhaust-air function                         | With flow control option<br>Via throttle plate<br>Via individual sub-base |
| Sealing principle                            | Soft                                                                      |
| Mounting position                            | optional                                                                  |
| Conforms to standard                         | ISO 5599-1                                                                |
| Manual override                              | Detenting<br>Non-detenting                                                |
| Type of piloting                             | Pilot actuated                                                            |
| Pilot air supply                             | Internal                                                                  |
| Flow direction                               | Non-reversible                                                            |
| Symbol                                       | 00991059                                                                  |
| lap                                          | Overlap                                                                   |
| Signal status display                        | LED                                                                       |
| Flow rate of valve                           | 2000 l/min                                                                |
| Flow rate of valve on individual sub-base    | 1400 l/min                                                                |
| Flow rate of pneumatically interlinked valve | 1300 l/min                                                                |
| Switching time reversal                      | 19 ms                                                                     |
| Duty cycle                                   | 100%                                                                      |
| Max. positive test pulse with 0 signal       | 1600 µs                                                                   |
| Max. negative test pulse with 1 signal       | 1100 µs                                                                   |
| Characteristic coil data                     | 24 V DC: 1.6 W                                                            |

| Feature                            | Value                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------|
| 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                                                                          |
| Media temperature                  | -5 °C ... 50 °C                                                                            |
| Relative air humidity              | 0 - 90%                                                                                    |
| Pilot medium                       | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| Ambient temperature                | -5 °C ... 50 °C                                                                            |
| Product weight                     | 439 g                                                                                      |
| Electrical connection              | 3-pin<br>M12x1<br>Central plug<br>Round design                                             |
| Type of mounting                   | On sub-base                                                                                |
| Pneumatic connection, port 1       | Sub-base size 1 to ISO 5599-1                                                              |
| Pneumatic connection, port 2       | Sub-base size 1 to ISO 5599-1                                                              |
| Pneumatic connection, port 3       | Sub-base size 1 to ISO 5599-1                                                              |
| Pneumatic connection, port 4       | Sub-base size 1 to ISO 5599-1                                                              |
| Pneumatic connection, port 5       | Sub-base size 1 to ISO 5599-1                                                              |
| Note on materials                  | RoHS-compliant                                                                             |
| Material seals                     | FPM<br>HNBR<br>NBR                                                                         |
| Material housing                   | Die-cast aluminium<br>PA                                                                   |
| Material screws                    | Steel<br>Galvanised                                                                        |