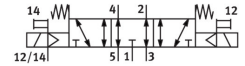


# Solenoid valve VSVA-B-P53E-ZD-D1-1R5L

Part number: 561377

**FESTO**



 General operating condition

## Data sheet

| Feature                                               | Value                                                                     |
|-------------------------------------------------------|---------------------------------------------------------------------------|
| Valve function                                        | 5/3 exhausted                                                             |
| 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 5599-1<br>G1/4                                     |
| Operating voltage                                     | 24V DC                                                                    |
| Operating pressure                                    | -0.09 MPa ... 1.6 MPa                                                     |
| Operating pressure                                    | -0.9 bar ... 16 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                                      | External                                                                  |
| Flow direction                                        | optional                                                                  |
| Symbol                                                | 00991752                                                                  |
| lap                                                   | Overlap                                                                   |
| Signal status display                                 | LED                                                                       |
| Pilot pressure                                        | 0.3 MPa ... 1 MPa                                                         |
| Pilot pressure                                        | 3 bar ... 10 bar                                                          |
| Flow rate of valve                                    | 1900 l/min                                                                |
| Flow rate of valve on individual sub-base             | 1400 l/min                                                                |
| Flow rate of pneumatically interlinked valve          | 1300 l/min                                                                |
| Switching time off                                    | 65 ms                                                                     |
| Switching time on                                     | 22 ms                                                                     |
| Duty cycle                                            | 100%                                                                      |

| Feature                                | Value                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------------|
| Max. positive test pulse with 0 signal | 1400 µs                                                                                    |
| Max. negative test pulse with 1 signal | 900 µs                                                                                     |
| Max. current consumption               | 72 mA                                                                                      |
| Characteristic coil data               | 24 V DC: 1.6 W                                                                             |
| 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                         | 456 g                                                                                      |
| Electrical connection                  | 3-pin<br>M12x1<br>Central plug<br>Round design                                             |
| Type of mounting                       | On sub-base                                                                                |
| Pilot air port 12/14                   | Sub-base size 1 to ISO 5599-1                                                              |
| Pilot exhaust port 82/84               | Ducted<br>Not ducted as per standard<br>Either:                                            |
| Pneumatic connection, port 1           | Sub-base size 1 to ISO 5599-1                                                              |
| 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                                                                        |