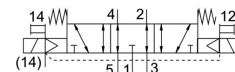
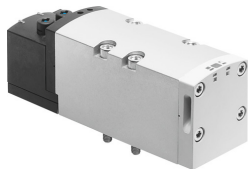


# Solenoid valve VSVA-B-P53E-ZTR-D2-1T1L

Part number: 8034959

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                      | Value                                                                     |
|----------------------------------------------|---------------------------------------------------------------------------|
| Valve function                               | 5/3 exhausted                                                             |
| Type of actuation                            | Electric                                                                  |
| Construction width                           | 52 mm                                                                     |
| Standard nominal flow rate                   | 2800 l/min                                                                |
| pneumatic working port                       | Sub-base size 2 to ISO 5599-2<br>G1/2                                     |
| Operating voltage                            | 24V DC                                                                    |
| Operating pressure                           | -0.09 MPa ... 1 MPa                                                       |
| Operating pressure                           | -0.9 bar ... 10 bar                                                       |
| Design                                       | Piston gate valve                                                         |
| Approval                                     | c UL us - Recognized (OL)                                                 |
| KC mark                                      | KC-EMV                                                                    |
| CE mark (see declaration of conformity)      | To EU EMC Directive                                                       |
| Degree of protection                         | IP65<br>NEMA 4                                                            |
| Grid dimension                               | 59 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 5599-2                                                                |
| Manual override                              | Detenting via accessory<br>Non-detenting                                  |
| Type of piloting                             | Pilot actuated                                                            |
| Pilot air supply                             | External                                                                  |
| Flow direction                               | optional                                                                  |
| Symbol                                       | 00992939                                                                  |
| Signal status display                        | LED                                                                       |
| Pilot pressure                               | 0.3 MPa ... 1 MPa                                                         |
| Pilot pressure                               | 3 bar ... 10 bar                                                          |
| Flow rate of valve                           | 3600 l/min                                                                |
| Flow rate of valve on individual sub-base    | 3200 l/min                                                                |
| Flow rate of pneumatically interlinked valve | 2800 l/min                                                                |
| Switching time off                           | 60 ms                                                                     |
| Switching time on                            | 23 ms                                                                     |
| Duty cycle                                   | 100%                                                                      |

| Feature                                   | Value                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------------|
| Max. positive test pulse with 0 signal    | 1000 µs                                                                                    |
| Max. negative test pulse with 1 signal    | 3500 µs                                                                                    |
| Nominal pick-up current per solenoid coil | 165 mA up to 30 ms                                                                         |
| Nominal current with current reduction    | 35 mA after 30 ms                                                                          |
| Characteristic coil data                  | 24 V DC: 4.6 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                                                                          |
| Media temperature                         | -5 °C ... 50 °C                                                                            |
| Relative air humidity                     | 0 - 90%                                                                                    |
| Ambient temperature                       | -5 °C ... 50 °C                                                                            |
| Product weight                            | 780 g                                                                                      |
| Electrical connection                     | Plug-in<br>To ISO 5599-2                                                                   |
| Type of mounting                          | On sub-base                                                                                |
| Pilot air port 12/14                      | Sub-base size 2 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 2 to ISO 5599-2                                                              |
| Pneumatic connection, port 2              | Sub-base size 2 to ISO 5599-2                                                              |
| Pneumatic connection, port 3              | Sub-base size 2 to ISO 5599-2                                                              |
| Pneumatic connection, port 4              | Sub-base size 2 to ISO 5599-2                                                              |
| Pneumatic connection, port 5              | Sub-base size 2 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                                                                           |