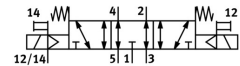
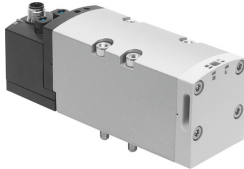


# Solenoid valve

## VSVA-B-P53E-ZD-D2-1R5L

Part number: 567008

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                 | 2700 l/min                                                                |
| pneumatic working port                     | Sub-base size 2 to ISO 5599-1<br>G3/8                                     |
| 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-Tick<br>c CSA us (OL)<br>c UL us - Recognized (OL)                      |
| KC mark                                    | KC-EMV                                                                    |
| CE mark (see declaration of conformity)    | To EU EMC Directive                                                       |
| CE marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions                     |
| Degree of protection                       | IP65<br>NEMA 4                                                            |
| Nominal size                               | 15 mm                                                                     |
| 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 5599-1                                                                |
| 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                         | 3600 l/min                                                                |

| Feature                                      | Value                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------------|
| Flow rate of valve on individual sub-base    | 2300 l/min                                                                                 |
| Flow rate of pneumatically interlinked valve | 2700 l/min                                                                                 |
| Switching time off                           | 60 ms                                                                                      |
| Switching time on                            | 23 ms                                                                                      |
| Duty cycle                                   | 100%                                                                                       |
| Max. positive test pulse with 0 signal       | 1000 µs                                                                                    |
| Max. negative test pulse with 1 signal       | 3500 µs                                                                                    |
| Max. current consumption                     | 72 mA                                                                                      |
| 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: 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                               | 780 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 2 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 2 to ISO 5599-1                                                              |
| Pneumatic connection, port 2                 | Sub-base size 2 to ISO 5599-1                                                              |
| Pneumatic connection, port 3                 | Sub-base size 2 to ISO 5599-1                                                              |
| Pneumatic connection, port 4                 | Sub-base size 2 to ISO 5599-1                                                              |
| Pneumatic connection, port 5                 | Sub-base size 2 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                                                                        |