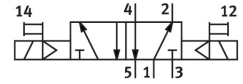


# Solenoid valve VSVA-B-B52-D-D2-F8

Part number: 8198588

**FESTO**



 General operating condition

## Data sheet

| Feature                                              | Value                                                                                      |
|------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                                       | 5/2 bistable                                                                               |
| Type of actuation                                    | Electric                                                                                   |
| Construction width                                   | 52 mm                                                                                      |
| Nominal flow rate standardised according to ISO 8778 | 4000 l/min                                                                                 |
| pneumatic working port                               | Sub-base size 2 to ISO 5599-1                                                              |
| Operating pressure                                   | 0.3 MPa ... 1.6 MPa                                                                        |
| Operating pressure                                   | 3 bar ... 16 bar                                                                           |
| Design                                               | Piston gate valve                                                                          |
| Degree of protection                                 | IP65<br>NEMA 4                                                                             |
| Nominal size                                         | 11.5 mm                                                                                    |
| Grid dimension                                       | 53 mm                                                                                      |
| Exhaust-air function                                 | Via individual sub-base                                                                    |
| Sealing principle                                    | Soft                                                                                       |
| Mounting position                                    | optional                                                                                   |
| Conforms to standard                                 | ISO 5599-1                                                                                 |
| Manual override                                      | Detenting                                                                                  |
| Type of piloting                                     | Pilot actuated                                                                             |
| Pilot air supply                                     | Internal                                                                                   |
| Flow direction                                       | Non-reversible                                                                             |
| Symbol                                               | 00991005                                                                                   |
| lap                                                  | Overlap                                                                                    |
| Pilot pressure                                       | 0.3 MPa ... 1 MPa                                                                          |
| Pilot pressure                                       | 3 bar ... 10 bar                                                                           |
| Suitability for vacuum                               | no                                                                                         |
| b value                                              | 0.2                                                                                        |
| C value                                              | 8.578 l/sbar                                                                               |
| Flow rate of valve                                   | 3700 l/min                                                                                 |
| Flow rate of valve on individual sub-base            | 3100 l/min                                                                                 |
| Flow rate of pneumatically interlinked valve         | 1400 l/min                                                                                 |
| Max. switching frequency                             | 5 Hz                                                                                       |
| Switching time reversal                              | 23 ms                                                                                      |
| Duty cycle                                           | 100%                                                                                       |
| 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) |

| Feature                                   | Value                                     |
|-------------------------------------------|-------------------------------------------|
| LABS (PWIS) conformity                    | VDMA24364-B1/B2-L                         |
| Media temperature                         | -10 °C ... 50 °C                          |
| Relative air humidity                     | 0 - 90%                                   |
| Sound pressure level                      | 85 dB(A)                                  |
| Pilot medium                              | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Ambient temperature                       | -10 °C ... 50 °C                          |
| Max. tightening torque for valve mounting | 2 Nm                                      |
| Product weight                            | 665 g                                     |
| Type of mounting                          | On sub-base                               |
| Pilot air port 12                         | Sub-base size 2 to ISO 5599-1             |
| Pilot air port 14                         | Sub-base size 2 to ISO 5599-1             |
| 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             |
| Pilot control interface                   | To ISO 15218                              |
| Note on materials                         | RoHS-compliant                            |
| Material seals                            | NBR                                       |
| Material housing                          | Die-cast aluminium                        |
| Material screws                           | Steel                                     |