

# Solenoid valve VSVA-B-B52-D-D2-F8-1A1

Part number: 8033785

**FESTO**



 General operating condition

## Data sheet

| Feature                                              | Value                                       |
|------------------------------------------------------|---------------------------------------------|
| Valve function                                       | 5/2-way, double solenoid                    |
| Type of actuation                                    | Electrical                                  |
| 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 voltage                                    | 24 V DC                                     |
| Operating pressure                                   | 0.3 MPa ... 1 MPa                           |
| Operating pressure                                   | 3 bar ... 10 bar                            |
| Design                                               | Piston gate valve                           |
| Degree of protection                                 | IP65<br>NEMA 4                              |
| Nominal size                                         | 11.5 mm                                     |
| Grid dimension                                       | 53 mm                                       |
| Exhaust-air function                                 | Can be throttled<br>Via individual sub-base |
| Sealing principle                                    | Soft                                        |
| Mounting position                                    | Any                                         |
| Conforms to standard                                 | ISO 5599-1                                  |
| Manual override                                      | Detenting                                   |
| Type of piloting                                     | Piloted                                     |
| 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         | 2600 l/min                                  |
| Max. switching frequency                             | 5 Hz                                        |
| Switching time reversal                              | 23 ms                                       |
| Duty cycle                                           | 100%                                        |
| Characteristic coil data                             | 24 V DC: 2.6 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) |
| 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                            | 748 g                                                                                      |
| Electrical connection                     | Type A<br>To EN 175301-803                                                                 |
| Type of mounting                          | On sub-base                                                                                |
| Pilot exhaust port 82                     | M5<br>Not ducted                                                                           |
| Pilot exhaust port 84                     | M5<br>Not ducted                                                                           |
| 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                                                                                      |