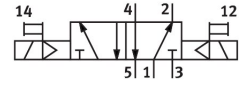


# Solenoid valve VSVA-B-B52-D-D2-F8-1A1

Part number: 8033785

**FESTO**



 General operating condition

## Data sheet

| Feature                                                                | Value                                    |
|------------------------------------------------------------------------|------------------------------------------|
| Valve function                                                         | 5/2, bistable                            |
| Actuation type                                                         | Electrical                               |
| Width                                                                  | 52 mm                                    |
| Nominal flow rate standardized according to ISO 8778                   | 4000 l/min                               |
| Pneumatic working port                                                 | Sub-base, size 2 according to ISO 5599-1 |
| Operating voltage                                                      | 24V DC                                   |
| Operating pressure                                                     | 0.3 MPa ... 1.6 MPa                      |
| Operating pressure                                                     | 3 bar ... 16 bar                         |
| Structural design                                                      | Piston gate valve                        |
| Degree of protection                                                   | IP65<br>NEMA 4                           |
| Nominal width                                                          | 11.5 mm                                  |
| Width dimension                                                        | 53 mm                                    |
| Exhaust air function                                                   | Via individual sub-base                  |
| Sealing principle                                                      | Soft                                     |
| Mounting position                                                      | Any                                      |
| Conforms to standard                                                   | ISO 5599-1                               |
| Manual override                                                        | Detenting                                |
| Type of control                                                        | Pilot-controlled                         |
| Pilot air supply port                                                  | Internal                                 |
| Flow direction                                                         | Non-reversible                           |
| Symbol                                                                 | 00991005                                 |
| Lap                                                                    | Overlap                                  |
| Pilot pressure MPa                                                     | 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 pneumatic valve                                           | 3700 l/min                               |
| Flow rate of pneumatic valve on individual sub-base                    | 3100 l/min                               |
| Optimized flow rate of pneumatic valve pneumatically concatenated flow | 1400 l/min                               |
| Max. switching frequency                                               | 5 Hz                                     |
| Changeover time                                                        | 23 ms                                    |
| Duty cycle                                                             | 100%                                     |
| Coil characteristics                                                   | 24 V DC: 2.6 W                           |
| Permissible voltage fluctuations                                       | +/- 10 %                                 |

| Feature                                   | Value                                                              |
|-------------------------------------------|--------------------------------------------------------------------|
| Operating medium                          | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media  | Operation with oil lubrication possible (required for further use) |
| LABS (PWIS) conformity                    | VDMA24364-B1/B2-L                                                  |
| Temperature of medium                     | -10 °C ... 50 °C                                                   |
| Relative air humidity                     | 0 - 90 %                                                           |
| Noise level                               | 85 dB(A)                                                           |
| Pilot medium                              | Compressed air as per 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                     | Form A<br>as per EN 175301-803                                     |
| Type of mounting                          | On sub-base                                                        |
| Pilot air port 12                         | Sub-base, size 2 as per ISO 5599-1                                 |
| Pilot air port 14                         | Sub-base, size 2 as per ISO 5599-1                                 |
| Pneumatic connection 1                    | Sub-base, size 2 as per ISO 5599-1                                 |
| Pneumatic connection 2                    | Sub-base, size 2 as per ISO 5599-1                                 |
| Pneumatic connection 3                    | Sub-base, size 2 as per ISO 5599-1                                 |
| Pneumatic connection 4                    | Sub-base, size 2 as per ISO 5599-1                                 |
| Pneumatic connection 5                    | Sub-base, size 2 as per ISO 5599-1                                 |
| Pilot interface                           | as per ISO 15218                                                   |
| Note on materials                         | RoHS-compliant                                                     |
| Seals material                            | NBR                                                                |
| Housing material                          | Die-cast aluminum                                                  |
| Material of screws                        | Steel                                                              |