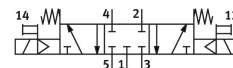


# Solenoid valve

## VSVA-B-P53C-H-D2-F8-1B2

Part number: 8033809

FESTO



## Data sheet

| Feature                                              | Value                               |
|------------------------------------------------------|-------------------------------------|
| Valve function                                       | 5/3 closed                          |
| Type of actuation                                    | Electric                            |
| Construction width                                   | 52 mm                               |
| Nominal flow rate standardised according to ISO 8778 | 3700 l/min                          |
| pneumatic working port                               | Sub-base size 2 to ISO 5599-1       |
| Operating voltage                                    | 24V DC                              |
| Operating pressure                                   | 0.3 MPa...1.6 MPa<br>3 bar...16 bar |
| Design                                               | Piston gate valve                   |
| Type of reset                                        | Mechanical spring                   |
| 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                                      | Non-detenting                       |
| Type of piloting                                     | Pilot actuated                      |
| Pilot air supply                                     | Internal                            |
| Flow direction                                       | Non-reversible                      |
| lap                                                  | Overlap                             |
| Pilot pressure                                       | 0.3 MPa...1 MPa<br>3 bar...10 bar   |
| Suitability for vacuum                               | no                                  |
| b value                                              | 0.26                                |
| C value                                              | 7.696 l/sbar                        |
| Flow rate of valve                                   | 3500 l/min                          |
| Flow rate of valve on individual sub-base            | 2800 l/min                          |
| Flow rate of pneumatically interlinked valve         | 1300 l/min                          |
| Max. switching frequency                             | 5 Hz                                |

| Feature                                   | Value                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------------|
| Switching time off                        | 78 ms                                                                                      |
| Switching time on                         | 25 ms                                                                                      |
| Switching time reversal                   | 40 ms                                                                                      |
| Duty cycle                                | 100%                                                                                       |
| Characteristic coil data                  | 24 V DC: 3.3 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) |
| 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                            | 777 g                                                                                      |
| Electrical connection                     | Type B                                                                                     |
| 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                                                                                      |