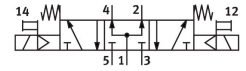


# Solenoid valve VSVA-B-P53U-D-D2-F8

Part number: 8198590

**FESTO**



## Data sheet

| Feature                                                                | Value                                    |
|------------------------------------------------------------------------|------------------------------------------|
| Valve function                                                         | 5/3-way, pressurized                     |
| Actuation type                                                         | Electrical                               |
| Width                                                                  | 52 mm                                    |
| Nominal flow rate standardized according to ISO 8778                   | 3500 l/min                               |
| Pneumatic working port                                                 | Sub-base, size 2 according to ISO 5599-1 |
| Operating pressure                                                     | 0.3 MPa...1 MPa<br>3 bar...10 bar        |
| Structural design                                                      | Piston gate valve                        |
| Reset method                                                           | Mechanical spring                        |
| Degree of protection                                                   | IP65<br>NEMA 4                           |
| Nominal width                                                          | 11.5 mm                                  |
| Width dimension                                                        | 53 mm                                    |
| Exhaust air function                                                   | Adjustable<br>Via individual sub-base    |
| Sealing principle                                                      | Soft                                     |
| Mounting position                                                      | Any                                      |
| Conforms to standard                                                   | ISO 5599-1                               |
| Manual override                                                        | Detenting                                |
| Type of control                                                        | Piloted                                  |
| Pilot air supply port                                                  | Internal                                 |
| Flow direction                                                         | Non-reversible                           |
| Lap                                                                    | Positive overlap                         |
| Pilot pressure MPa                                                     | 0.3 MPa...1 MPa                          |
| Pilot pressure                                                         | 3 bar...10 bar                           |
| Suitability for vacuum                                                 | No                                       |
| b-value                                                                | 0.33                                     |
| C value                                                                | 7.069 l/sbar                             |
| Flow rate of pneumatic valve                                           | 3300 l/min                               |
| Flow rate of pneumatic valve on individual sub-base                    | 2900 l/min                               |
| Optimized flow rate of pneumatic valve pneumatically concatenated flow | 2500 l/min                               |
| Max. switching frequency                                               | 5 Hz                                     |

| Feature                                   | Value                                                              |
|-------------------------------------------|--------------------------------------------------------------------|
| Switching time off                        | 80 ms                                                              |
| On switching time                         | 26 ms                                                              |
| Changeover time                           | 34 ms                                                              |
| Duty cycle                                | 100%                                                               |
| 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                            | 720 g                                                              |
| Type of mounting                          | On sub-base                                                        |
| Pilot exhaust air port 82                 | M5<br>Not ducted                                                   |
| Pilot exhaust air port 84                 | M5<br>Not ducted                                                   |
| 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                                                              |