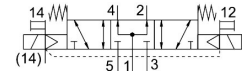
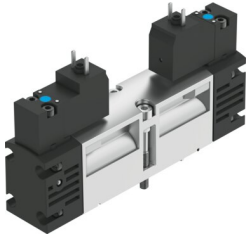


# Solenoid valve VSVA-B-P53U-ZH-A1-5C1

Part number: 547162

**FESTO**



## Data sheet

| Feature                                               | Value                                                                        |
|-------------------------------------------------------|------------------------------------------------------------------------------|
| Valve function                                        | 5/3-way, pressurised                                                         |
| Type of actuation                                     | Electric                                                                     |
| Valve size                                            | 26 mm                                                                        |
| Standard nominal flow rate (standardised to DIN 1343) | 1000 l/min                                                                   |
| pneumatic working port                                | Sub-base size 26 mm to ISO 15407-1<br>Sub-base size 01 to VDMA 24563<br>G1/4 |
| Operating voltage                                     | 12V DC                                                                       |
| Operating pressure                                    | -0.09 MPa...1.6 MPa<br>-0.9 bar...16 bar                                     |
| Design                                                | Piston gate valve                                                            |
| Type of reset                                         | Mechanical spring                                                            |
| Degree of protection                                  | IP65<br>NEMA 4                                                               |
| Nominal size                                          | 9 mm                                                                         |
| Exhaust-air function                                  | With flow control option                                                     |
| Sealing principle                                     | Soft                                                                         |
| Mounting position                                     | optional                                                                     |
| Conforms to standard                                  | ISO 15407-1<br>VDMA 24563                                                    |
| Manual override                                       | Non-detenting                                                                |
| Type of piloting                                      | Pilot actuated                                                               |
| Pilot air supply                                      | External                                                                     |
| Flow direction                                        | Reversible                                                                   |
| lap                                                   | Overlap                                                                      |
| Signal status display                                 | LED                                                                          |
| Pilot pressure                                        | 0.3 MPa...1 MPa<br>3 bar...10 bar                                            |
| Flow rate of valve                                    | 1400 l/min                                                                   |
| Flow rate of valve on individual sub-base             | 1100 l/min                                                                   |
| Flow rate of pneumatically interlinked valve          | 1000 l/min                                                                   |
| Switching time off                                    | 58 ms                                                                        |
| Switching time on                                     | 23 ms                                                                        |

| Feature                                   | Value                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------------|
| Switching time reversal                   | 35 ms                                                                                      |
| Duty cycle                                | 100%                                                                                       |
| Characteristic coil data                  | 12 V DC: 1.8 W                                                                             |
| Permissible voltage fluctuations          | -15%/+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) |
| Vibration resistance                      | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6           |
| Shock resistance                          | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27                          |
| Corrosion resistance class CRC            | 0 - No corrosion stress                                                                    |
| LABS (PWIS) conformity                    | VDMA24364-B1/B2-L                                                                          |
| Media temperature                         | -5 °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                       | -5 °C...50 °C                                                                              |
| Max. tightening torque for valve mounting | 2 Nm                                                                                       |
| Product weight                            | 305 g                                                                                      |
| Electrical connection                     | Type C<br>To DIN EN 175301-803<br>Without protective earth conductor                       |
| Type of mounting                          | On sub-base                                                                                |
| Auxiliary pilot air port 12               | Sub-base size 26 mm to ISO 15407-1                                                         |
| Auxiliary pilot air port 14               | Sub-base size 26 mm to ISO 15407-1                                                         |
| Pilot exhaust port 82/84                  | Ducted<br>Not ducted as per standard                                                       |
| Pneumatic connection, port 1              | Sub-base size 26 mm to ISO 15407-1                                                         |
| Pneumatic connection, port 2              | Sub-base size 26 mm to ISO 15407-1                                                         |
| Pneumatic connection, port 3              | Sub-base size 26 mm to ISO 15407-1                                                         |
| Pneumatic connection, port 4              | Sub-base size 26 mm to ISO 15407-1                                                         |
| Pneumatic connection, port 5              | Sub-base size 26 mm to ISO 15407-1                                                         |
| Pilot control interface                   | To ISO 15218                                                                               |
| Note on materials                         | RoHS-compliant                                                                             |
| Material seals                            | HNBR<br>NBR                                                                                |
| Material housing                          | Die-cast aluminium                                                                         |
| Material screws                           | Steel<br>Galvanised                                                                        |