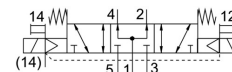
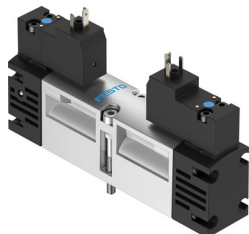


# Solenoid valve VSVA-B-P53U-ZH-A1-2AC1

Part number: 547202

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                      | Value                                                                        |
|----------------------------------------------|------------------------------------------------------------------------------|
| Valve function                               | 5/3-way, pressurised                                                         |
| Type of actuation                            | Electric                                                                     |
| Valve size                                   | 26 mm                                                                        |
| Standard nominal flow rate                   | 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                            | 110V AC                                                                      |
| Operating pressure                           | -0.09 MPa ... 1.6 MPa                                                        |
| Operating pressure                           | -0.9 bar ... 16 bar                                                          |
| Design                                       | Piston gate valve                                                            |
| Type of reset                                | Mechanical spring                                                            |
| CE mark (see declaration of conformity)      | To EU Low Voltage Directive                                                  |
| CE marking (see declaration of conformity)   | To UK instructions for EMC                                                   |
| 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                                                                   |
| Symbol                                       | 00992940                                                                     |
| lap                                          | Overlap                                                                      |
| Signal status display                        | LED                                                                          |
| Pilot pressure                               | 0.3 MPa ... 1 MPa                                                            |
| Pilot pressure                               | 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                                                                        |
| Switching time reversal                      | 35 ms                                                                        |

| Feature                                   | Value                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------------|
| Duty cycle                                | 100%                                                                                       |
| Characteristic coil data                  | 110 V AC: 50/60 Hz, pick-up power 2.9 VA, holding power 2.1 VA                             |
| 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>With protective earth conductor<br>To DIN EN 175301-803                          |
| 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<br>Either:                                                            |
| 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                            | NBR                                                                                        |
| Material housing                          | Die-cast aluminium                                                                         |
| Material screws                           | Steel<br>Galvanised                                                                        |