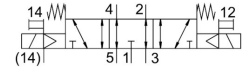
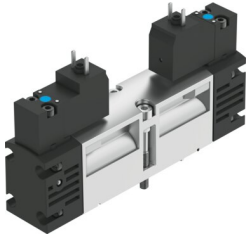


# Air solenoid valve VSVA-B-P53E-ZH-A1-1C1

Part number: 547084

**FESTO**



 General operating condition

## Data sheet

| Feature                                                                | Value                                                                                                     |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Valve function                                                         | 5/3, exhausted                                                                                            |
| Actuation type                                                         | Electrical                                                                                                |
| Valve size                                                             | 26 mm                                                                                                     |
| Standard nominal flow rate                                             | 1000 l/min                                                                                                |
| Pneumatic working port                                                 | Sub-base, size 26 mm according to ISO 15407-1<br>Connecting plate size 01 according to VDMA 24563<br>G1/4 |
| Operating voltage                                                      | 24V DC                                                                                                    |
| Operating pressure                                                     | -0.09 MPa ... 1.6 MPa                                                                                     |
| Operating pressure                                                     | -0.9 bar ... 16 bar                                                                                       |
| Structural design                                                      | Piston gate valve                                                                                         |
| Reset method                                                           | Mechanical spring                                                                                         |
| Certification                                                          | c UL us - Recognized (OL)                                                                                 |
| Degree of protection                                                   | IP65<br>NEMA 4                                                                                            |
| Nominal width                                                          | 9 mm                                                                                                      |
| Exhaust air function                                                   | With flow control option                                                                                  |
| Sealing principle                                                      | Soft                                                                                                      |
| Mounting position                                                      | Any                                                                                                       |
| Conforms to standard                                                   | ISO 15407-1<br>VDMA 24563                                                                                 |
| Manual override                                                        | Non-detenting                                                                                             |
| Type of control                                                        | Pilot-controlled                                                                                          |
| Pilot air supply port                                                  | External                                                                                                  |
| Flow direction                                                         | Reversible                                                                                                |
| Symbol                                                                 | 00992939                                                                                                  |
| Lap                                                                    | Overlap                                                                                                   |
| Signal status display                                                  | LED                                                                                                       |
| Pilot pressure MPa                                                     | 0.3 MPa ... 1 MPa                                                                                         |
| Pilot pressure                                                         | 3 bar ... 10 bar                                                                                          |
| Flow rate of pneumatic valve                                           | 1400 l/min                                                                                                |
| Flow rate of pneumatic valve on individual sub-base                    | 1100 l/min                                                                                                |
| Optimized flow rate of pneumatic valve pneumatically concatenated flow | 1000 l/min                                                                                                |
| Switching time off                                                     | 58 ms                                                                                                     |
| On switching time                                                      | 23 ms                                                                                                     |
| Changeover time                                                        | 35 ms                                                                                                     |
| Duty cycle                                                             | 100%                                                                                                      |

| Feature                                   | Value                                                                                |
|-------------------------------------------|--------------------------------------------------------------------------------------|
| Max. positive test pulse with 0 signal    | 1800 µs                                                                              |
| Max. negative test pulse on 1 signal      | 800 µs                                                                               |
| Coil characteristics                      | 24 V DC: 1.8 W                                                                       |
| Permissible voltage fluctuations          | -15 % / +10 %                                                                        |
| 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)                   |
| Vibration resistance                      | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance                          | Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27                |
| Corrosion resistance class (CRC)          | 0 - No corrosion stress                                                              |
| LABS (PWIS) conformity                    | VDMA24364-B1/B2-L                                                                    |
| Temperature of medium                     | -5 °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                       | -5 °C ... 50 °C                                                                      |
| Max. tightening torque for valve mounting | 2 Nm                                                                                 |
| Product weight                            | 305 g                                                                                |
| Electrical connection                     | Form C<br>as per DIN EN 175301-803<br>Without PE conductor                           |
| Type of mounting                          | On sub-base                                                                          |
| Auxiliary pilot air port 12               | Sub-base, size 26 mm as per ISO 15407-1                                              |
| Auxiliary pilot air port 14               | Sub-base, size 26 mm as per ISO 15407-1                                              |
| Pilot exhaust air port 82/84              | Ducted<br>Not ducted as per standard                                                 |
| Pneumatic connection 1                    | Sub-base, size 26 mm as per ISO 15407-1                                              |
| Pneumatic connection 2                    | Sub-base, size 26 mm as per ISO 15407-1                                              |
| Pneumatic connection 3                    | Sub-base, size 26 mm as per ISO 15407-1                                              |
| Pneumatic connection 4                    | Sub-base, size 26 mm as per ISO 15407-1                                              |
| Pneumatic connection 5                    | Sub-base, size 26 mm as per ISO 15407-1                                              |
| Pilot interface                           | as per ISO 15218                                                                     |
| Note on materials                         | RoHS-compliant                                                                       |
| Seals material                            | HNBR<br>NBR                                                                          |
| Housing material                          | Die-cast aluminum                                                                    |
| Material of screws                        | Steel<br>Galvanized                                                                  |