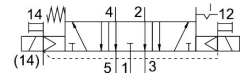
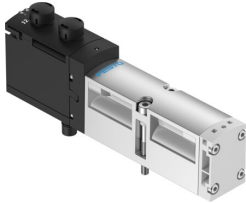


# Air solenoid valve VSVA-B-P53ED-ZD-A1-1T1L

Part number: 560727

**FESTO**



## Data sheet

| Feature                                             | Value                                                       |
|-----------------------------------------------------|-------------------------------------------------------------|
| Valve function                                      | 5/3 exhausted                                               |
| Actuation type                                      | Electrical                                                  |
| Width                                               | 26 mm                                                       |
| Normal nominal flow rate (normalized to DIN 1343)   | 1000 l/min                                                  |
| Pneumatic working port                              | Sub-base, size 26 mm as per ISO 15407-2<br>G1/4             |
| Operating voltage                                   | 24V DC                                                      |
| Operating pressure                                  | -0.09 MPa...1 MPa<br>-0.9 bar...10 bar                      |
| Structural design                                   | Piston gate valve                                           |
| Reset method                                        | Mechanical spring<br>Electrical actuation                   |
| Degree of protection                                | IP65<br>NEMA 4                                              |
| Nominal width                                       | 9 mm                                                        |
| Exhaust air function                                | Adjustable<br>Via throttle plate<br>Via individual sub-base |
| Sealing principle                                   | Soft                                                        |
| Mounting position                                   | Any                                                         |
| Manual override                                     | Detenting<br>Non-detenting<br>Covered                       |
| Type of control                                     | Piloted                                                     |
| Pilot air supply port                               | External<br>Internal                                        |
| Flow direction                                      | Non-reversible                                              |
| Lap                                                 | Positive 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 | 1200 l/min                                                  |

| Feature                                                                 | Value                                                                                |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Optimized flow rate of pneumatic valve, pneumatically concatenated flow | 1350 l/min                                                                           |
| Optimized flow rate of pneumatic valve pneumatically concatenated flow  | 1000 l/min                                                                           |
| Asymmetrical switching time off                                         | 49 ms for control side 12                                                            |
| Asymmetrical switching time on                                          | 22 ms for control side 12<br>9 ms for control side 14                                |
| Duty cycle                                                              | 100%                                                                                 |
| Max. positive test pulse with 0 signal                                  | 1200 µs                                                                              |
| Max. negative test pulse on 1 signal                                    | 1100 µs                                                                              |
| Nominal operating voltage DC                                            | 24 V                                                                                 |
| Coil characteristics                                                    | 24 V DC: 1.6 W                                                                       |
| Surge resistance                                                        | 2.5 kV                                                                               |
| Contamination level                                                     | 3                                                                                    |
| Permissible voltage fluctuations                                        | +/- 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)                                                                             |
| Ambient temperature                                                     | -5 °C...50 °C                                                                        |
| Max. tightening torque for valve mounting                               | 1.8 Nm...2.2 Nm                                                                      |
| Product weight                                                          | 291 g                                                                                |
| Electrical connection                                                   | 4-pin<br>Plug<br>As per ISO 15407-2                                                  |
| Type of mounting                                                        | On sub-base                                                                          |
| Pilot air port 12/14                                                    | Sub-base, size 26 mm as per ISO 15407-2                                              |
| Pilot exhaust air port 82/84                                            | Ducted<br>Not ducted<br>Alternatively:                                               |
| Pneumatic connection 1                                                  | Sub-base, size 26 mm as per ISO 15407-2                                              |
| Pneumatic connection 2                                                  | Sub-base, size 26 mm as per ISO 15407-2                                              |
| Pneumatic connection 3                                                  | Sub-base, size 26 mm as per ISO 15407-2                                              |
| Pneumatic connection 4                                                  | Sub-base, size 26 mm as per ISO 15407-2                                              |
| Pneumatic connection 5                                                  | Sub-base, size 26 mm as per ISO 15407-2                                              |
| Note on materials                                                       | RoHS compliant                                                                       |
| Seals material                                                          | FPM<br>NBR                                                                           |
| Housing material                                                        | Die-cast aluminum<br>PA                                                              |
| Material of screws                                                      | Galvanized steel                                                                     |