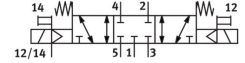


# Air solenoid valve VSVA-B-P53C-ZD-D1-1R5L

FESTO

Part number: 561376



 General operating condition

## Data sheet

| Feature  | Value   |
|--|---|
| Valve function   | 5/3, closed   |
| Actuation type   | Electrical  |
| Width  | 42 mm   |
| Normal nominal flow rate (normalized to DIN 1343)                      | 1300 l/min  |
| Pneumatic working port   | Sub-base, size 1 according to ISO 5599-1<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   |
| Certification  | c UL us - Recognized (OL)   |
| Degree of protection   | IP65<br>NEMA 4  |
| Nominal width  | 11 mm   |
| Width dimension  | 43 mm   |
| Exhaust air function   | With flow control option<br>Via throttle plate<br>Via individual sub-base |
| Sealing principle  | Soft  |
| Mounting position  | Any   |
| Conforms to standard   | ISO 5599-1  |
| Manual override  | Detenting<br>Non-detenting  |
| Type of control  | Pilot-controlled  |
| Pilot air supply port  | External  |
| Flow direction   | Any   |
| Symbol   | 00991751  |
| 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   | 1900 l/min  |
| Flow rate of pneumatic valve on individual sub-base                    | 1400 l/min  |
| Optimized flow rate of pneumatic valve pneumatically concatenated flow | 1300 l/min  |
| Switching time off   | 65 ms   |
| On switching time  | 22 ms   |
| Duty cycle   | 100%  |

| Feature                                  | Value  |
|--|--|
| Max. positive test pulse with 0 signal   | 1400 µs  |
| Max. negative test pulse on 1 signal     | 900 µs   |
| Coil characteristics                     | 24 V DC: 1.6 W   |
| 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 %   |
| Pilot medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4]  |
| Ambient temperature                      | -5 °C ... 50 °C  |
| Product weight                           | 456 g  |
| Electrical connection                    | 3-pin<br>M12x1<br>Central plug<br>Round design                                       |
| Type of mounting                         | On sub-base  |
| Pilot air port 12/14                     | Sub-base, size 1 as per ISO 5599-1   |
| Pilot exhaust air port 82/84             | Ducted<br>Not ducted as per standard<br>Optionally:                                  |
| Pneumatic connection 1                   | Sub-base, size 1 as per ISO 5599-1   |
| Pneumatic connection 2                   | Sub-base, size 1 as per ISO 5599-1   |
| Pneumatic connection 3                   | Sub-base, size 1 as per ISO 5599-1   |
| Pneumatic connection 4                   | Sub-base, size 1 as per ISO 5599-1   |
| Pneumatic connection 5                   | Sub-base, size 1 as per ISO 5599-1   |
| Note on materials                        | RoHS-compliant   |
| Seals material                           | FPM<br>HNBR<br>NBR   |
| Housing material                         | Die-cast aluminum<br>PA  |
| Material of screws                       | Steel<br>Galvanized  |