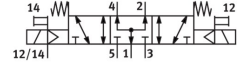



# Air solenoid valve VSVA-B-P53U-ZD-D2-1R5L

FESTO

Part number: 567009



 General operating condition

## Data sheet

| Feature   | Value   |
|---|---|
| Valve function                                      | 5/3, pressurized  |
| Actuation type                                      | Electrical  |
| Width   | 52 mm   |
| Normal nominal flow rate (normalized to DIN 1343)   | 2700 l/min  |
| Pneumatic working port                              | Sub-base, size 2 according to ISO 5599-1<br>G3/8                          |
| 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-Tick<br>c CSA us (OL)<br>c UL us - Recognized (OL)                      |
| KC characters                                       | KC EMC  |
| CE marking (see declaration of conformity)          | As per EU EMC directive   |
| UKCA marking (see declaration of conformity)        | To UK RoHS instructions   |
| Degree of protection                                | IP65<br>NEMA 4  |
| Nominal width                                       | 15 mm   |
| Width dimension                                     | 59 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  | 00991753  |
| 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                        | 3600 l/min  |
| Flow rate of pneumatic valve on individual sub-base | 2300 l/min  |

| Feature  | Value  |
|--|--|
| Optimized flow rate of pneumatic valve pneumatically concatenated flow | 2700 l/min   |
| Switching time off   | 60 ms  |
| On switching time  | 23 ms  |
| Duty cycle   | 100%   |
| Max. positive test pulse with 0 signal                                 | 1000 µs  |
| Max. negative test pulse on 1 signal                                   | 3500 µs  |
| Max. current consumption   | 72 mA  |
| Nominal pick-up current per solenoid coil                              | 165 mA to 30 ms  |
| Nominal current with current reduction                                 | 35 mA after 30 ms  |
| 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   | 780 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 2 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 2 as per ISO 5599-1   |
| Pneumatic connection 2   | Sub-base, size 2 as per ISO 5599-1   |
| Pneumatic connection 3   | Sub-base, size 2 as per ISO 5599-1   |
| Pneumatic connection 4   | Sub-base, size 2 as per ISO 5599-1   |
| Pneumatic connection 5   | Sub-base, size 2 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  |