

# Air solenoid valve VSVA-B-P53U-H-A2-1R2L

Part number: 534780

FESTO



[General operating condition](#)

## Data sheet

| Feature  | Value   |
|--|---|
| Valve function   | 5/3, pressurized  |
| Actuation type   | Electrical  |
| Width  | 18 mm   |
| Normal nominal flow rate (normalized to DIN 1343)                      | 450 l/min   |
| Pneumatic working port   | Sub-base, size 18 mm as per ISO 15407-1<br>Connecting plate size O2 according to VDMA 24563 |
| Operating voltage  | 24V DC  |
| Operating pressure   | 0.3 MPa ... 0.8 MPa   |
| Operating pressure   | 3 bar ... 8 bar   |
| Structural design  | Piston gate valve   |
| Reset method   | Mechanical spring   |
| Certification  | C-Tick<br>c UL us - Recognized (OL)   |
| 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  |
| Nominal width  | 5 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  | Internal  |
| Flow direction   | Non-reversible  |
| Symbol   | 00991083  |
| Lap  | Overlap   |
| Reverse polarity protection  | for all electrical connections  |
| Additional functions   | Safety shut-down  |
| Signal status display  | LED   |
| Flow rate of pneumatic valve   | 650 l/min   |
| Flow rate of pneumatic valve on individual sub-base                    | 500 l/min   |
| Optimized flow rate of pneumatic valve pneumatically concatenated flow | 450 l/min   |
| Switching time off   | 36 ms   |
| On switching time  | 15 ms   |

| Feature  | Value  |
|--|--|
| DC operating voltage range                     | 21.6 V ... 26.4 V  |
| Duty cycle                                     | 100%   |
| Max. positive test pulse with 0 signal         | 500 µs   |
| Max. negative test pulse on 1 signal           | 500 µs   |
| Coil characteristics                           | 24 V DC: low-current phase 1.0 W, high-current phase 2.4 W                           |
| 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)               | 2 - Moderate corrosion stress  |
| LABS (PWIS) conformity                         | VDMA24364-B1/B2-L  |
| Temperature of medium                          | -5 °C ... 50 °C  |
| Relative air humidity                          | 0 - 90 %   |
| Protection against direct and indirect contact | PELV   |
| Ambient temperature                            | -5 °C ... 50 °C  |
| Max. tightening torque for valve mounting      | 0.9 Nm ... 1.1 Nm  |
| Product weight                                 | 140 g  |
| Electrical connection                          | 4-pin<br>M8x1<br>Central plug<br>Round design  |
| Type of mounting                               | On sub-base  |
| Note on materials                              | RoHS-compliant   |