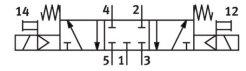


# Air solenoid valve VSVA-B-P53C-H-A2-1R5L

Part number: 546771

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                                                | Value                                                                                       |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Valve function                                                         | 5/3, closed                                                                                 |
| Actuation type                                                         | Electrical                                                                                  |
| Width                                                                  | 18 mm                                                                                       |
| Standard nominal flow rate                                             | 450 l/min                                                                                   |
| Pneumatic working port                                                 | Sub-base, size 18 mm as per ISO 15407-1<br>Connecting plate size 02 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 instructions for EMC<br>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                                                                 | 00991080                                                                                    |
| Lap                                                                    | Overlap                                                                                     |
| Reverse polarity protection                                            | for all electrical connections                                                              |
| Additional functions                                                   | Holding current reduction<br>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                                                                                       |

| Feature                                        | Value                                                                                |
|------------------------------------------------|--------------------------------------------------------------------------------------|
| On switching time                              | 15 ms                                                                                |
| 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                          | 3-pin<br>M12x1<br>Central plug<br>Round design                                       |
| Type of mounting                               | On sub-base                                                                          |
| Note on materials                              | RoHS-compliant                                                                       |