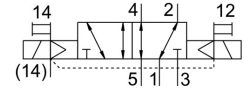
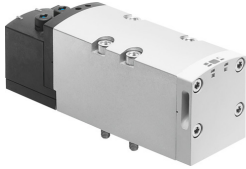


# Air solenoid valve VSVA-B-B52-ZD-D2-1T1L

Part number: 560818

**FESTO**



## Data sheet

| Feature                                                                | Value                                                                     |
|------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Valve function                                                         | 5/2, bistable                                                             |
| Actuation type                                                         | Electrical                                                                |
| Width                                                                  | 52 mm                                                                     |
| Standard nominal flow rate                                             | 2900 l/min                                                                |
| Pneumatic working port                                                 | Sub-base, size 2 as per ISO 5599-2<br>G1/2                                |
| Operating voltage                                                      | 24V DC                                                                    |
| Operating pressure                                                     | -0.09 MPa ... 1 MPa                                                       |
| Operating pressure                                                     | -0.9 bar ... 10 bar                                                       |
| Structural design                                                      | Piston gate valve                                                         |
| Certification                                                          | c UL us - Recognized (OL)                                                 |
| KC characters                                                          | KC EMC                                                                    |
| CE marking (see declaration of conformity)                             | As per EU EMC directive                                                   |
| Degree of protection                                                   | IP65<br>NEMA 4                                                            |
| Width dimension                                                        | 59 mm                                                                     |
| Type code                                                              | VSVA                                                                      |
| 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 5599-2                                                                |
| Manual override                                                        | Detenting<br>Non-detenting                                                |
| Type of control                                                        | Pilot-controlled                                                          |
| Pilot air supply port                                                  | External                                                                  |
| Flow direction                                                         | Any                                                                       |
| Symbol                                                                 | 00992941                                                                  |
| Signal status display                                                  | LED                                                                       |
| Pilot pressure MPa                                                     | 0.3 MPa ... 1 MPa                                                         |
| Pilot pressure                                                         | 3 bar ... 10 bar                                                          |
| Flow rate of pneumatic valve                                           | 4000 l/min                                                                |
| Flow rate of pneumatic valve on individual sub-base                    | 3400 l/min                                                                |
| Optimized flow rate of pneumatic valve pneumatically concatenated flow | 2900 l/min                                                                |
| Changeover time                                                        | 18 ms                                                                     |
| Duty cycle                                                             | 100%                                                                      |

| Feature                                   | Value                                                                                |
|-------------------------------------------|--------------------------------------------------------------------------------------|
| Max. positive test pulse with 0 signal    | 1000 µs                                                                              |
| Max. negative test pulse on 1 signal      | 3500 µs                                                                              |
| 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: 4.6 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                                                              |
| Temperature of medium                     | -5 °C ... 50 °C                                                                      |
| Relative air humidity                     | 0 - 90 %                                                                             |
| Ambient temperature                       | -5 °C ... 50 °C                                                                      |
| Product weight                            | 732 g                                                                                |
| Electrical connection                     | Plug-in<br>as per ISO 5599-2                                                         |
| Type of mounting                          | On sub-base                                                                          |
| Pilot air port 12/14                      | Sub-base, size 2 as per ISO 5599-2                                                   |
| Pilot exhaust air port 82/84              | Optionally:<br>Not ducted as per standard<br>Ducted                                  |
| Pneumatic connection 1                    | Sub-base, size 2 as per ISO 5599-2                                                   |
| Pneumatic connection 2                    | Sub-base, size 2 as per ISO 5599-2                                                   |
| Pneumatic connection 3                    | Sub-base, size 2 as per ISO 5599-2                                                   |
| Pneumatic connection 4                    | Sub-base, size 2 as per ISO 5599-2                                                   |
| Pneumatic connection 5                    | Sub-base, size 2 as per ISO 5599-2                                                   |
| Note on materials                         | RoHS-compliant                                                                       |
| Seals material                            | FPM<br>HNBR<br>NBR                                                                   |
| Housing material                          | Die-cast aluminum<br>PA                                                              |
| Material of screws                        | Steel, galvanized                                                                    |