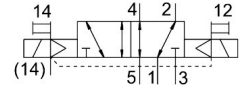


# Solenoid valve VSVA-B-B52-ZH-A2-3AC1

Part number: 547235

**FESTO**



 General operating condition

## Data sheet

| Feature                                               | Value                                                                        |
|-------------------------------------------------------|------------------------------------------------------------------------------|
| Valve function                                        | 5/2 bistable                                                                 |
| Type of actuation                                     | Electric                                                                     |
| Valve size                                            | 18 mm                                                                        |
| Standard nominal flow rate (standardised to DIN 1343) | 550 l/min                                                                    |
| pneumatic working port                                | Sub-base size 18 mm to ISO 15407-1<br>Sub-base size 02 to VDMA 24563<br>G1/8 |
| Operating voltage                                     | 230V AC                                                                      |
| Operating pressure                                    | -0.09 MPa ... 1 MPa                                                          |
| Operating pressure                                    | -0.9 bar ... 10 bar                                                          |
| Design                                                | Piston gate valve                                                            |
| CE mark (see declaration of conformity)               | To EU Low Voltage Directive                                                  |
| UKCA marking (see declaration of conformity)          | To UK instructions for EMC                                                   |
| Degree of protection                                  | IP65<br>NEMA 4                                                               |
| Nominal size                                          | 5 mm                                                                         |
| Exhaust-air function                                  | With flow control option                                                     |
| Sealing principle                                     | Soft                                                                         |
| Mounting position                                     | optional                                                                     |
| Conforms to standard                                  | ISO 15407-1<br>VDMA 24563                                                    |
| Manual override                                       | Non-detenting                                                                |
| Type of piloting                                      | Pilot actuated                                                               |
| Pilot air supply                                      | External                                                                     |
| Flow direction                                        | Reversible                                                                   |
| Symbol                                                | 00992941                                                                     |
| lap                                                   | Overlap                                                                      |
| Signal status display                                 | LED                                                                          |
| Pilot pressure                                        | 0.3 MPa ... 1 MPa                                                            |
| Pilot pressure                                        | 3 bar ... 10 bar                                                             |
| Flow rate of valve                                    | 750 l/min                                                                    |
| Flow rate of valve on individual sub-base             | 550 l/min                                                                    |
| Flow rate of pneumatically interlinked valve          | 550 l/min                                                                    |
| Switching time reversal                               | 15 ms                                                                        |
| Duty cycle                                            | 100%                                                                         |
| Characteristic coil data                              | 230 V AC: 50/60 Hz, pick-up power 2.9 VA, holding power 2.1 VA               |
| Permissible voltage fluctuations                      | -15%/+10%                                                                    |

| Feature                                   | Value                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------------|
| Operating medium                          | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| Note on operating and pilot medium        | Lubricated operation possible (in which case lubricated operation will always be required) |
| Vibration resistance                      | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6           |
| Shock resistance                          | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27                          |
| Corrosion resistance class CRC            | 0 - No corrosion stress                                                                    |
| LABS (PWIS) conformity                    | VDMA24364-B1/B2-L                                                                          |
| Media temperature                         | -5 °C ... 50 °C                                                                            |
| Relative air humidity                     | 0 - 90%                                                                                    |
| Sound pressure level                      | 85 dB(A)                                                                                   |
| Pilot medium                              | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| Ambient temperature                       | -5 °C ... 50 °C                                                                            |
| Max. tightening torque for valve mounting | 1 Nm                                                                                       |
| Product weight                            | 174 g                                                                                      |
| Electrical connection                     | Type C<br>With protective earth conductor<br>To DIN EN 175301-803                          |
| Type of mounting                          | On sub-base                                                                                |
| Auxiliary pilot air port 12               | Sub-base size 18 mm to ISO 15407-1                                                         |
| Auxiliary pilot air port 14               | Sub-base size 18 mm to ISO 15407-1                                                         |
| Pilot exhaust port 82/84                  | Ducted<br>Not ducted as per standard                                                       |
| Pneumatic connection, port 1              | Sub-base size 18 mm to ISO 15407-1                                                         |
| Pneumatic connection, port 2              | Sub-base size 18 mm to ISO 15407-1                                                         |
| Pneumatic connection, port 3              | Sub-base size 18 mm to ISO 15407-1                                                         |
| Pneumatic connection, port 4              | Sub-base size 18 mm to ISO 15407-1                                                         |
| Pneumatic connection, port 5              | Sub-base size 18 mm to ISO 15407-1                                                         |
| Pilot control interface                   | To ISO 15218                                                                               |
| Note on materials                         | RoHS-compliant                                                                             |
| Material seals                            | HNBR<br>NBR                                                                                |
| Material housing                          | Die-cast aluminium                                                                         |
| Material screws                           | Steel<br>Galvanised                                                                        |