

# Air solenoid valve VSVA-B-B52-ZH-A2-3AC1

Part number: 547235

FESTO



 General operating condition

## Data sheet

| Feature  | Value   |
|--|---|
| Valve function   | 5/2-way, bistable   |
| Actuation type   | Electrical  |
| Valve size   | 18 mm   |
| Normal nominal flow rate (normalized to DIN 1343)                      | 550 l/min   |
| Pneumatic working port   | Sub-base, size 18 mm as per ISO 15407-1<br>Connecting plate size 02 according to VDMA 24563<br>G1/8 |
| Operating voltage  | 230V AC   |
| Operating pressure   | -0.09 MPa ... 1 MPa   |
| Operating pressure   | -0.9 bar ... 10 bar   |
| Structural design  | Piston gate valve   |
| CE marking (see declaration of conformity)                             | As per EU low voltage directive   |
| UKCA marking (see declaration of conformity)                           | To UK instructions for EMC  |
| Degree of protection   | IP65<br>NEMA 4  |
| Nominal width  | 5 mm  |
| Exhaust air function   | Adjustable  |
| Sealing principle  | Soft  |
| Mounting position  | Any   |
| Conforms to standard   | ISO 15407-1<br>VDMA 24563   |
| Manual override  | Non-detenting   |
| Type of control  | Piloted   |
| Pilot air supply port  | External  |
| Flow direction   | Reversible  |
| Symbol   | 00992941  |
| Lap  | Positive overlap  |
| Signal status display  | LED   |
| Pilot pressure MPa   | 0.3 MPa ... 1 MPa   |
| Pilot pressure   | 3 bar ... 10 bar  |
| Flow rate of pneumatic valve   | 750 l/min   |
| Flow rate of pneumatic valve on individual sub-base                    | 550 l/min   |
| Optimized flow rate of pneumatic valve pneumatically concatenated flow | 550 l/min   |
| Changeover time  | 15 ms   |
| Duty cycle   | 100%  |
| Coil characteristics   | 230 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA                                      |
| Permissible voltage fluctuations                                       | -15% / +10%   |

| Feature                                   | Value  |
|---|--|
| 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%  |
| Noise level                               | 85 dB(A)   |
| Pilot medium                              | Compressed air as per 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 PE conductor<br>As per DIN EN 175301-803                              |
| Type of mounting                          | On sub-base  |
| Auxiliary pilot air port 12               | Sub-base, size 18 mm as per ISO 15407-1  |
| Auxiliary pilot air port 14               | Sub-base, size 18 mm as per ISO 15407-1  |
| Pilot exhaust air port 82/84              | Ducted<br>Not ducted as per standard   |
| Pneumatic connection 1                    | Sub-base, size 18 mm as per ISO 15407-1  |
| Pneumatic connection 2                    | Sub-base, size 18 mm as per ISO 15407-1  |
| Pneumatic connection 3                    | Sub-base, size 18 mm as per ISO 15407-1  |
| Pneumatic connection 4                    | Sub-base, size 18 mm as per ISO 15407-1  |
| Pneumatic connection 5                    | Sub-base, size 18 mm as per ISO 15407-1  |
| Pilot interface                           | As per ISO 15218   |
| Note on materials                         | RoHS compliant   |
| Seals material                            | HNBR<br>NBR  |
| Housing material                          | Die-cast aluminum  |
| Material of screws                        | Steel<br>Galvanized  |