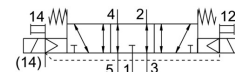
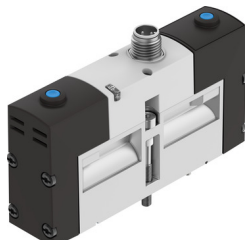


# Solenoid valve VSVA-B-P53E-ZH-A1-1R5L

Part number: 534550

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                    | Value                                                                     |
|--------------------------------------------|---------------------------------------------------------------------------|
| Valve function                             | 5/3 exhausted                                                             |
| Type of actuation                          | Electric                                                                  |
| Construction width                         | 26 mm                                                                     |
| Standard nominal flow rate                 | 1000 l/min                                                                |
| pneumatic working port                     | Sub-base size 26 mm to ISO 15407-1                                        |
| Operating voltage                          | 24V DC                                                                    |
| Operating pressure                         | -0.09 MPa ... 1.6 MPa                                                     |
| Operating pressure                         | -0.9 bar ... 16 bar                                                       |
| Design                                     | Piston gate valve                                                         |
| Type of reset                              | Mechanical spring                                                         |
| Approval                                   | RCM trademark<br>c UL us - Recognized (OL)                                |
| CE mark (see declaration of conformity)    | To EU EMC Directive                                                       |
| CE marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions                     |
| Degree of protection                       | IP65<br>NEMA 4                                                            |
| Nominal size                               | 9 mm                                                                      |
| Grid dimension                             | 27 mm                                                                     |
| Exhaust-air function                       | With flow control option<br>Via throttle plate<br>Via individual sub-base |
| Sealing principle                          | Soft                                                                      |
| Mounting position                          | optional                                                                  |
| Conforms to standard                       | ISO 15407-1                                                               |
| Manual override                            | Non-detenting                                                             |
| Type of piloting                           | Pilot actuated                                                            |
| Pilot air supply                           | External                                                                  |
| Flow direction                             | optional                                                                  |
| Symbol                                     | 00992939                                                                  |
| lap                                        | Overlap                                                                   |
| Reverse polarity protection                | For all electrical connections                                            |
| Additional functions                       | Holding current reduction<br>Safety shut-off                              |
| Signal status display                      | LED                                                                       |
| Pilot pressure                             | 0.3 MPa ... 0.8 MPa                                                       |
| Pilot pressure                             | 3 bar ... 8 bar                                                           |

| Feature                                        | Value                                                                                      |
|------------------------------------------------|--------------------------------------------------------------------------------------------|
| b value                                        | 0.3                                                                                        |
| C value                                        | 2.9 l/sbar                                                                                 |
| Flow rate of valve                             | 1400 l/min                                                                                 |
| Flow rate of valve on individual sub-base      | 1100 l/min                                                                                 |
| Flow rate of pneumatically interlinked valve   | 1000 l/min                                                                                 |
| Switching time off                             | 52 ms                                                                                      |
| Switching time on                              | 20 ms                                                                                      |
| Duty cycle                                     | 100%                                                                                       |
| Max. positive test pulse with 0 signal         | 400 µs                                                                                     |
| Max. negative test pulse with 1 signal         | 100 µs                                                                                     |
| Nominal pick-up current per solenoid coil      | 110 mA up to 20 ms                                                                         |
| Nominal current with current reduction         | 30 mA after 20 ms                                                                          |
| Characteristic coil data                       | 24 V DC: low-current phase 1.0 W, high-current phase 2.4 W                                 |
| Permissible voltage fluctuations               | +/- 10 %                                                                                   |
| 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                 | 2 - Moderate corrosion stress                                                              |
| LABS (PWIS) conformity                         | VDMA24364-B1/B2-L                                                                          |
| Media temperature                              | -5 °C ... 50 °C                                                                            |
| Relative air humidity                          | 0 - 90%                                                                                    |
| Protection against direct and indirect contact | PELV                                                                                       |
| Pilot medium                                   | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| Ambient temperature                            | -5 °C ... 50 °C                                                                            |
| Max. tightening torque for valve mounting      | 1.8 Nm ... 2.2 Nm                                                                          |
| Product weight                                 | 270 g                                                                                      |
| Electrical connection                          | 3-pin<br>M12x1<br>Central plug<br>Round design                                             |
| Type of mounting                               | On sub-base<br>Via through-hole and screw                                                  |
| Pilot air port 12/14                           | Sub-base size 26 mm to ISO 15407-1                                                         |
| Pilot exhaust port 82/84                       | Ducted<br>Not ducted as per standard<br>Either:                                            |
| Note on materials                              | RoHS-compliant                                                                             |
| Material seals                                 | FPM<br>HNBR<br>NBR                                                                         |
| Material housing                               | Die-cast aluminium                                                                         |