

# Solenoid valve VSVA-B-P53E-ZTR-A2-1T1L

Part number: 8033455

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                               | Value                                                                        |
|-------------------------------------------------------|------------------------------------------------------------------------------|
| Valve function                                        | 5/3 exhausted                                                                |
| Type of actuation                                     | Electrical                                                                   |
| Construction width                                    | 18 mm                                                                        |
| Standard nominal flow rate (standardised to DIN 1343) | 450 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                                     | 24 V DC                                                                      |
| Operating pressure                                    | -0.09 MPa ... 1 MPa                                                          |
| Operating pressure                                    | -0.9 bar ... 10 bar                                                          |
| Design                                                | Piston gate valve                                                            |
| Approval                                              | c UL us - Recognised (Oil)                                                   |
| Degree of protection                                  | IP65<br>NEMA 4                                                               |
| Exhaust-air function                                  | Can be throttled<br>Via throttle plate<br>Via individual sub-base            |
| Sealing principle                                     | Soft                                                                         |
| Mounting position                                     | Any                                                                          |
| Manual override                                       | Detenting via accessory<br>Non-detenting                                     |
| Type of piloting                                      | Piloted                                                                      |
| Pilot air supply                                      | External<br>Internal                                                         |
| Flow direction                                        | Any                                                                          |
| Symbol                                                | 00992939                                                                     |
| lap                                                   | Overlap                                                                      |
| Signal status display                                 | LED                                                                          |
| Pilot pressure                                        | 0.3 MPa ... 1 MPa                                                            |
| Pilot pressure                                        | 3 bar ... 10 bar                                                             |
| Flow rate of valve                                    | 700 l/min                                                                    |
| Flow rate of valve on individual sub-base             | 500 l/min                                                                    |
| Valve flow rate, pneumatically linked, flow optimized | 480 l/min                                                                    |
| Flow rate of pneumatically interlinked valve          | 450 l/min                                                                    |
| Switching time off                                    | 44 ms                                                                        |
| Switching time on                                     | 15 ms                                                                        |
| Duty cycle                                            | 100%                                                                         |
| Max. positive test pulse with 0 signal                | 1500 µs                                                                      |

| Feature                                | Value                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------------|
| Max. negative test pulse with 1 signal | 800 µs                                                                                     |
| Max. current consumption               | 72 mA                                                                                      |
| Nominal operating voltage DC           | 24 V                                                                                       |
| Characteristic coil data               | 24 V DC: 1.6 W                                                                             |
| Immunity to surge                      | 2.5 kV                                                                                     |
| Pollution degree                       | 3                                                                                          |
| 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         | 0 - No corrosion stress                                                                    |
| LABS (PWIS) conformity                 | VDMA24364-B1/B2-L                                                                          |
| Relative air humidity                  | 0 - 90%                                                                                    |
| Pilot medium                           | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| Ambient temperature                    | -5 °C ... 50 °C                                                                            |
| Product weight                         | 191 g                                                                                      |
| Electrical connection                  | Plug-in<br>To ISO 15407-2                                                                  |
| Type of mounting                       | On sub-base                                                                                |
| Pilot air port 12/14                   | Sub-base size 18 mm to ISO 15407-2                                                         |
| Pilot exhaust port 82/84               | Ducted<br>Not ducted as per standard<br>Either:                                            |
| Pneumatic connection, port 1           | Sub-base size 18 mm to ISO 15407-2                                                         |
| Pneumatic connection, port 2           | Sub-base size 18 mm to ISO 15407-2                                                         |
| Pneumatic connection, port 3           | Sub-base size 18 mm to ISO 15407-2                                                         |
| Pneumatic connection, port 4           | Sub-base size 18 mm to ISO 15407-2                                                         |
| Pneumatic connection, port 5           | Sub-base size 18 mm to ISO 15407-2                                                         |
| Note on materials                      | RoHS compliant                                                                             |
| Material seals                         | Fluoro rubber<br>HNBR<br>NBR                                                               |
| Material housing                       | Die-cast aluminium<br>Process automation                                                   |
| Material screws                        | Galvanised steel                                                                           |