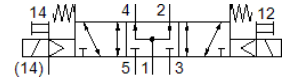
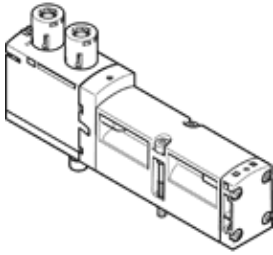


# solenoid valve

## VSVA-B-P53U-ZTR-A1-1T1L

Part number: 8033023

FESTO



## Data sheet

| Feature  | Value  |
|--|--|
| Valve function   | 5/3 pressurised  |
| Type of actuation  | electrical   |
| Width  | 26 mm  |
| Standard nominal flow rate                                   | 1,000 l/min  |
| Operating pressure MPa                                       | -0.09 ... 1 MPa  |
| Operating pressure   | -0.9 ... 10 bar  |
| Design structure   | Piston slide   |
| Authorisation  | c UL us - Recognized (OL)  |
| Protection class   | IP65<br>NEMA 4   |
| Exhaust-air function   | throttleable<br>Via throttle plate<br>Via individual sub-base                                  |
| Sealing principle  | soft   |
| Assembly position  | Any  |
| Manual override  | with accessories, detenting<br>Pushing   |
| Type of piloting   | Piloted  |
| Pilot air supply   | external<br>Internal   |
| Flow direction   | Any  |
| Overlap  | Positive overlap   |
| Signal status display  | LED  |
| Pilot pressure MPa   | 0.3 ... 1 MPa  |
| Pilot pressure   | 3 ... 10 bar   |
| Flow rate of valve   | 1,400 l/min  |
| Flow rate of valve on individual sub-base                    | 1,200 l/min  |
| Optimised flow rate of valve pneumatically concatenated flow | 1,350 l/min  |
| Flow rate of pneumatically linked valve                      | 1,000 l/min  |
| Switching time off   | 65 ms  |
| Switching time on  | 22 ms  |
| Duty cycle   | 100 %  |
| Max. positive test pulse with logic 0                        | 1,200 µs   |
| Max. negative test pulse with logic 1                        | 1,100 µs   |
| Max. current consumption                                     | 72 mA  |
| Nominal operating voltage DC                                 | 24 V   |
| Characteristic coil data                                     | 24 V DC: 1.6 W   |
| Surge strength   | 2.5 kV   |
| Degree of contamination                                      | 3  |
| Permissible voltage fluctuation                              | +/- 10 %   |
| Operating medium   | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                                       |
| Note on operating and pilot medium                           | Lubricated operation possible (subsequently required for further operation)                    |
| Vibration resistance   | Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 |

| Feature                                 | Value   |
|---|---|
| Shock resistance                        | Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 |
| Corrosion resistance classification CRC | 0 - No corrosion stress   |
| PWIS conformity                         | VDMA24364-B1/B2-L   |
| Relative air humidity                   | 0 - 90 %  |
| Pilot medium                            | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                          |
| Ambient temperature                     | -5 ... 50 °C  |
| Product weight                          | 320 g   |
| Electrical connection                   | Plug-in<br>according to ISO 15407-2   |
| Mounting type                           | On sub-base   |
| Auxiliary pilot air port 12/14          | Manifold block, size 26 mm acc. to ISO 15407-2                                    |
| Pilot exhaust port 82/84                | Optional<br>Not ducted as per standard<br>Ducted                                  |
| Pneumatic connection, port 1            | Manifold block, size 26 mm acc. to ISO 15407-2                                    |
| Pneumatic connection, port 2            | Manifold block, size 26 mm acc. to ISO 15407-2                                    |
| Pneumatic connection, port 3            | Manifold block, size 26 mm acc. to ISO 15407-2                                    |
| Pneumatic connection, port 4            | Manifold block, size 26 mm acc. to ISO 15407-2                                    |
| Pneumatic connection, port 5            | Manifold block, size 26 mm acc. to ISO 15407-2                                    |
| Materials note                          | Conforms to RoHS  |
| Material seals                          | FPM<br>HNBR<br>NBR  |
| Material housing                        | Aluminium die cast<br>PA  |
| Material screws                         | Galvanised steel  |