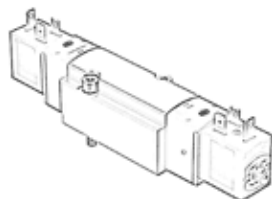


Solenoid valve

VSVA-BK-B52-D-D1-1B2

Part number: 8166592

FESTO



Data sheet

| Feature | Value |
|--|--|
| Valve function | 5/2 bistable |
| Type of actuation | electrical |
| Width | 38 mm |
| Valve size | 42 mm |
| Standard nominal flow rate | 1,200 l/min |
| Operating pressure MPa | 0.3 ... 0.8 MPa |
| Working pressure | 3 ... 8 bar |
| Design structure | Piston slide with sealing ring |
| Protection class | IP65 with plug socket to IEC 60529 |
| Nominal size | 6.3 mm |
| Grid dimension | 43 mm |
| Exhaust-air function | throttleable |
| Sealing principle | soft |
| Assembly position | Any |
| Conforms to standard | ISO 5599-1 |
| Manual override | detenting Pushing |
| ISO code | 155 |
| Type of piloting | Piloted |
| Pilot air supply | Internal |
| Flow direction | non reversible |
| Lap | Underlap |
| Signal status display | with accessories |
| b value | 0.26 |
| C value | 5.91 l/sbar |
| Flow rate of valve | 1,341 l/min |
| Flow rate of valve on individual subbase | 1,341 l/min |
| Flow rate of pneumatically linked valve | 1,313 l/min |
| Switching time reversal | 10.5 ms |
| Duty cycle | 100 % |
| Max. positive test pulse with logic 0 | 2,500 µs |
| Max. negative test pulse with logic 1 | 1,100 µs |
| Nominal operating voltage DC | 24 V |
| Characteristic coil data | 24 V DC: 3.3 W |
| 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 |
| Shock resistance | Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 |
| Corrosion resistance classification CRC | 1 - Low corrosion stress |
| PWIS conformity | VDMA24364 zone III |

| Feature | Value |
|--|---|
| Medium temperature | -5 ... 50 °C |
| Pilot medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Ambient temperature | -5 ... 50 °C |
| Max. tightening torque, valve mounting | 5 Nm |
| Product weight | 400 g |
| Electrical connection | Plug pattern type B to EN 175301-803 to industry standard (11 mm) |
| Mounting type | On subbase |
| Scavenging orifice connection | Non-ducted |
| Pneumatic connection, port 1 | Connection plate size 1 as per ISO 5599-1 |
| Pneumatic connection, port 2 | Connection plate size 1 as per ISO 5599-1 |
| Pneumatic connection, port 3 | Connection plate size 1 as per ISO 5599-1 |
| Pneumatic connection, port 4 | Connection plate size 1 as per ISO 5599-1 |
| Pneumatic connection, port 5 | Connection plate size 1 as per ISO 5599-1 |
| Materials note | Conforms to RoHS |
| Material seals | HNBR NBR |
| Material housing | Wrought Aluminum alloy |
| Material Piston slide | Wrought Aluminum alloy |
| Material screws | Galvanized steel |