

# Solenoid valve

## VSVA-B-M52-AZH-A2-1R5L

Part number: 546777

FESTO

with central plug, round design M12x1.



## Data sheet

| Feature                                      | Value   |
|--|---|
| Valve function                               | 5/2 monostable  |
| Type of actuation                            | electrical  |
| Width  | 18 mm   |
| Standard nominal flow rate                   | 550 l/min   |
| Operating pressure MPa                       | -0.09 ... 1 MPa   |
| Working pressure                             | -0.9 ... 10 bar   |
| Design structure                             | Piston slide  |
| Type of reset                                | Air spring  |
| Authorization                                | C-Tick<br>c UL us - Recognized (OL)   |
| CE symbol (see declaration of conformity)    | according to EU-EMV guideline   |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions                       |
| Protection class                             | IP65  |
| Nominal size                                 | 5 mm  |
| Exhaust-air function                         | throttleable  |
| Sealing principle                            | soft  |
| Assembly position                            | Any   |
| Conforms to standard                         | ISO 15407-1<br>VDMA 24563   |
| Manual override                              | Pushing   |
| Type of piloting                             | Piloted   |
| Pilot air supply                             | external  |
| Flow direction                               | reversible  |
| Lap  | Positive overlap  |
| Polarity protected                           | for all electrical connections  |
| Additional functions                         | Reduction of holding current<br>Safety shut-off                             |
| Signal status display                        | LED   |
| Pilot pressure MPa                           | 0.3 ... 0.8 MPa   |
| Pilot pressure                               | 3 ... 8 bar   |
| Flow rate of valve                           | 750 l/min   |
| Flow rate of valve on individual subbase     | 550 l/min   |
| Flow rate of pneumatically linked valve      | 550 l/min   |
| Switching time off                           | 25 ms   |
| Switching time on                            | 20 ms   |
| Operating voltage range DC                   | 21.6 ... 26.4 V   |
| Duty cycle                                   | 100 %   |
| Max. positive test pulse with logic 0        | 500 µs  |
| Max. negative test pulse with logic 1        | 500 µs  |
| Characteristic coil data                     | 24 V DC: low-current phase 1 W, high-current phase 2.4 W                    |
| 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) |

| Feature  | Value  |
|--|--|
| 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        | 2 - Moderate corrosion stress  |
| PWIS conformity                                | VDMA24364-B1/B2-L  |
| Medium temperature                             | -5 ... 50 °C   |
| Relative air humidity                          | 0 - 90 %   |
| Protection against direct and indirect contact | Safety extra-low voltage with safe disconnection (PELV)  |
| Ambient temperature                            | -5 ... 50 °C   |
| Max. tightening torque, valve mounting         | 0.9 ... 1.1 Nm   |
| Product weight                                 | 140 g  |
| Electrical connection                          | 3-pin<br>M12x1<br>Central plug<br>Round design   |
| Mounting type                                  | On subbase   |
| Materials note                                 | Conforms to RoHS   |