

# Solenoid valve VMPA2-M1H-H-S-G1/8-PI

Part number: 537979

FESTO



 General operating condition

## Data sheet

| Feature   | Value   |
|---|---|
| Valve function  | 2x3/2-way, open/closed, monostable                          |
| Type of actuation                                     | Electrical  |
| Valve size  | 20 mm   |
| Standard nominal flow rate (standardised to DIN 1343) | 550 l/min   |
| pneumatic working port                                | G1/8  |
| Operating voltage                                     | 24 V DC   |
| Operating pressure                                    | 0.3 MPa ... 1 MPa   |
| Operating pressure                                    | 3 bar ... 10 bar  |
| Design  | Piston gate valve   |
| Type of reset   | Pneumatic spring  |
| Approval  | c UL us - Recognised (Oil)                                  |
| CE mark (see declaration of conformity)               | To EU EMC Directive<br>In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity)          | To UK RoHS instructions                                     |
| Degree of protection                                  | IP65<br>In mounted state<br>To IEC 60529                    |
| Exhaust-air function                                  | Can be throttled  |
| Sealing principle                                     | Soft  |
| Mounting position                                     | Any   |
| Manual override                                       | Detenting<br>Non-detenting                                  |
| Type of piloting                                      | Piloted   |
| Pilot air supply                                      | External  |
| Flow direction  | Non-reversible  |
| Symbol  | 00991813  |
| lap   | Overlap   |
| Signal status display                                 | Yes   |
| Pilot pressure  | 0.3 MPa ... 0.8 MPa   |
| Pilot pressure  | 3 bar ... 8 bar   |
| Suitability for vacuum                                | No  |
| Standard nominal flow rate with QS-8                  | 550 l/min   |
| Switching time off                                    | 28 ms   |
| Switching time on                                     | 8 ms  |
| Max. positive test pulse with 0 signal                | 400 µs  |
| Max. negative test pulse with 1 signal                | 900 µs  |
| Permissible voltage fluctuations                      | +/-25%  |

| Feature                                   | Value  |
|---|--|
| 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            | 1 - Low corrosion stress   |
| LABS (PWIS) conformity                    | VDMA24364-B1/B2-L  |
| Storage temperature                       | -20 °C ... 40 °C   |
| Media temperature                         | -5 °C ... 50 °C  |
| Relative air humidity                     | Max. 90% at 40 °C  |
| Ambient temperature                       | -5 °C ... 50 °C  |
| Max. tightening torque for valve mounting | 0.65 Nm  |
| Product weight                            | 325 g  |
| Electrical connection                     | M8x1<br>Plug<br>To EN 60947-5-2  |
| Type of mounting                          | With through-hole  |
| Pilot air port 12/14                      | M5   |
| Pilot exhaust port 82/84                  | M5   |
| Pneumatic connection, port 1              | G1/8   |
| Pneumatic connection, port 2              | G1/8   |
| Pneumatic connection, port 3              | G1/8   |
| Pneumatic connection, port 4              | G1/8   |
| Pneumatic connection, port 5              | G1/8   |
| Note on materials                         | RoHS compliant   |
| Material seals                            | NBR  |
| Material housing                          | Die-cast aluminium   |