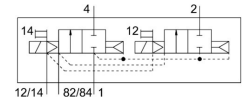
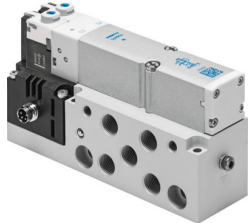


# Solenoid valve VMPA2-M1H-D-S-G1/8-PI

Part number: 537980

**FESTO**



[PDF](#) General operating condition

## Data sheet

| Feature                                               | Value                                                       |
|-------------------------------------------------------|-------------------------------------------------------------|
| Valve function                                        | 2x2/2-way, monostable, closed                               |
| Type of actuation                                     | Electric                                                    |
| Valve size                                            | 20 mm                                                       |
| Standard nominal flow rate (standardised to DIN 1343) | 650 l/min                                                   |
| pneumatic working port                                | G1/8                                                        |
| Operating voltage                                     | 24V 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 - Recognized (OL)                                   |
| 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 instructions for EMC<br>To UK RoHS instructions       |
| Degree of protection                                  | IP65<br>In assembled state<br>To IEC 60529                  |
| Exhaust-air function                                  | With flow control option                                    |
| Sealing principle                                     | Soft                                                        |
| Mounting position                                     | optional                                                    |
| Manual override                                       | Detenting<br>Non-detenting                                  |
| Type of piloting                                      | Pilot actuated                                              |
| Pilot air supply                                      | External                                                    |
| Flow direction                                        | Non-reversible                                              |
| Symbol                                                | 00991803                                                    |
| 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                  | 650 l/min                                                   |
| Switching time off                                    | 25 ms                                                       |
| Switching time on                                     | 7 ms                                                        |
| Max. positive test pulse with 0 signal                | 400 µs                                                      |
| Max. negative test pulse with 1 signal                | 900 µs                                                      |

| Feature                                   | Value                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------------|
| Permissible voltage fluctuations          | +/- 25%                                                                                    |
| 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                     | 4-pin<br>M8x1<br>Plugs<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                                                                         |