

# Air solenoid valve VMPA2-M1H-MS-PI

Part number: 571333

FESTO



[General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function                                    | 5/2, monostable  |
| Actuation type                                    | Electrical   |
| Valve size  | 20 mm  |
| Normal nominal flow rate (normalized to DIN 1343) | 670 l/min ... 840 l/min  |
| Operating voltage                                 | 24V DC   |
| Operating pressure                                | -0.09 MPa ... 0.8 MPa  |
| Operating pressure                                | -0.9 bar ... 8 bar   |
| Structural design                                 | Piston gate valve  |
| Reset method                                      | Mechanical spring  |
| Certification                                     | c UL us - Recognized (OL)  |
| Degree of protection                              | IP65<br>In mounted state<br>as per IEC 60529                       |
| Sealing principle                                 | Soft   |
| Mounting position                                 | Any  |
| Manual override                                   | Detenting<br>Non-detenting   |
| Type of control                                   | Pilot-controlled   |
| Flow direction                                    | Reversible   |
| Symbol  | 00991190   |
| Lap   | Overlap  |
| Signal status display                             | yes  |
| Pilot pressure MPa                                | 0.3 MPa ... 0.8 MPa  |
| Pilot pressure                                    | 3 bar ... 8 bar  |
| Suitability for vacuum                            | yes  |
| Note on standard nominal flow rate                | MPA-L: 840 l/min<br>MPA-S: 670 l/min                               |
| Standard nominal flow rate with QS-8              | 670 l/min  |
| Standard nominal flow rate with QS-10             | 840 l/min  |
| Max. switching frequency                          | 2 Hz   |
| Switching time off                                | 36 ms  |
| On switching time                                 | 8 ms   |
| Max. positive test pulse with 0 signal            | 400 µs   |
| Max. negative test pulse on 1 signal              | 900 µs   |
| Permissible voltage fluctuations                  | +/- 25 %   |
| Operating medium                                  | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media          | Operation with oil lubrication possible (required for further use) |

| <b>Feature</b>                            | <b>Value</b>   |
|---|--|
| Vibration resistance                      | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance                          | Shock test with severity level 2 as per 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   |
| Temperature of medium                     | -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                            | 100 g  |
| Type of mounting                          | With through-hole  |
| Note on materials                         | RoHS-compliant   |
| Seals material                            | NBR  |
| Housing material                          | Die-cast aluminum  |