

# Air solenoid valve VMPA14-M1H-NS-PI

Part number: 575977

FESTO



 [General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function                                    | 2x3/2, open, monostable  |
| Actuation type                                    | Electrical   |
| Valve size  | 14 mm  |
| Normal nominal flow rate (normalized to DIN 1343) | 470 l/min ... 520 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>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  | 00992875   |
| Lap   | Overlap  |
| Signal status display                             | yes  |
| Pilot pressure MPa                                | 0.4 MPa ... 0.8 MPa  |
| Pilot pressure                                    | 4 bar ... 8 bar  |
| Suitability for vacuum                            | yes  |
| Note on standard nominal flow rate                | MPA-L: 520 l/min<br>MPA-S: 470 l/min   |
| Standard nominal flow rate with QS-8              | 470 l/min ... 520 l/min  |
| Switching time off                                | 20 ms  |
| On switching time                                 | 12 ms  |
| Max. positive test pulse with 0 signal            | 400 µs   |
| Max. negative test pulse on 1 signal              | 200 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)                   |
| 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                |

| <b>Feature</b>                            | <b>Value</b>             |
|---|--------------------------|
| 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 | 0.25 Nm                  |
| Product weight                            | 77 g                     |
| Type of mounting                          | With through-hole        |
| Note on materials                         | RoHS-compliant           |
| Seals material                            | NBR                      |
| Housing material                          | Die-cast aluminum        |