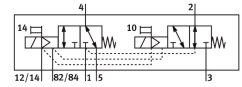


# Air solenoid valve VMPA14-M1HF-HS-PI

Part number: 578821

**FESTO**



## Data sheet

| Feature                                           | Value                                                    |
|---------------------------------------------------|----------------------------------------------------------|
| Valve function                                    | 2x3/2, open/closed, 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<br>-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                                   | Piloted                                                  |
| Flow direction                                    | Reversible                                               |
| Lap                                               | Positive 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-C: 550 l/min<br>MPA-L: 520 l/min<br>MPA-S: 470 l/min |
| Standard nominal flow rate with QS-8              | 470 l/min...550 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]            |

| Feature                                   | Value                                                                                |
|-------------------------------------------|--------------------------------------------------------------------------------------|
| 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                |
| Corrosion resistance class (CRC)          | 1 - Low corrosion stress                                                             |
| LABS (PWIS) conformity                    | VDMA24364-B1/B2-L                                                                    |
| Storage temperature                       | -20 °C...40 °C                                                                       |
| For use in the food industry              | See supplementary material information                                               |
| Temperature of medium                     | -5 °C...50 °C                                                                        |
| Relative air humidity                     | Max. 90% at 40°C                                                                     |
| Ambient temperature                       | -5 °C...60 °C                                                                        |
| Max. tightening torque for valve mounting | 0.65 Nm                                                                              |
| Product weight                            | 77 g                                                                                 |
| Type of mounting                          | With through-hole                                                                    |
| Note on materials                         | RoHS compliant                                                                       |
| Seals material                            | NBR                                                                                  |
| Housing material                          | Die-cast aluminum                                                                    |