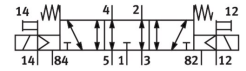
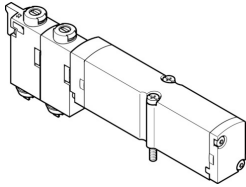


# Air solenoid valve VMPA14-M1HF-E-PI

Part number: 578808

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Valve function                           | 5/3, exhausted                                                     |
| Actuation type                           | Electrical                                                         |
| Valve size                               | 14 mm                                                              |
| Standard nominal flow rate               | 420 l/min ... 480 l/min                                            |
| Operating voltage                        | 24V DC                                                             |
| Operating pressure                       | -0.09 MPa ... 1 MPa                                                |
| Operating pressure                       | -0.9 bar ... 10 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                                   | 00991032                                                           |
| 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-C: 550 l/min<br>MPA-L: 480 l/min<br>MPA-S: 420 l/min           |
| Standard nominal flow rate with QS-8     | 420 l/min ... 550 l/min                                            |
| Switching time off                       | 40 ms                                                              |
| On switching time                        | 12 ms                                                              |
| Changeover time                          | 18 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) |

| Feature                                   | Value                                                                                |
|-------------------------------------------|--------------------------------------------------------------------------------------|
| 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                                                                    |