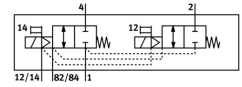
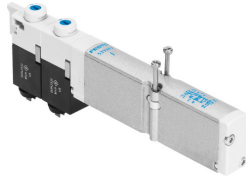


# Solenoid valve VMPA1-M1H-DS-PI

Part number: 556841

**FESTO**



 General operating condition

## Data sheet

| Feature                                | Value                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                         | 2x2/2-way, monostable, closed                                                              |
| Type of actuation                      | Electric                                                                                   |
| Valve size                             | 10 mm                                                                                      |
| Standard nominal flow rate             | 230 l/min                                                                                  |
| Operating voltage                      | 24V DC                                                                                     |
| Operating pressure                     | -0.09 MPa ... 0.8 MPa                                                                      |
| Operating pressure                     | -0.9 bar ... 8 bar                                                                         |
| Design                                 | Piston gate valve                                                                          |
| Type of reset                          | Mechanical spring                                                                          |
| Approval                               | c UL us - Recognized (OL)                                                                  |
| Degree of protection                   | IP65<br>To IEC 60529                                                                       |
| Sealing principle                      | Soft                                                                                       |
| Mounting position                      | optional                                                                                   |
| Manual override                        | Detenting<br>Non-detenting                                                                 |
| Type of piloting                       | Pilot actuated                                                                             |
| Flow direction                         | Reversible                                                                                 |
| Symbol                                 | 00992877                                                                                   |
| lap                                    | Overlap                                                                                    |
| Signal status display                  | yes                                                                                        |
| Pilot pressure                         | 0.3 MPa ... 0.8 MPa                                                                        |
| Pilot pressure                         | 3 bar ... 8 bar                                                                            |
| Suitability for vacuum                 | yes                                                                                        |
| Standard nominal flow rate with QS-6   | 230 l/min                                                                                  |
| Switching time off                     | 16 ms                                                                                      |
| Switching time on                      | 14 ms                                                                                      |
| Max. positive test pulse with 0 signal | 400 µs                                                                                     |
| Max. negative test pulse with 1 signal | 200 µs                                                                                     |
| 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                                                                   |

| Feature                                   | Value              |
|-------------------------------------------|--------------------|
| 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 | 0.25 Nm            |
| Product weight                            | 56 g               |
| Type of mounting                          | With through-hole  |
| Note on materials                         | RoHS-compliant     |
| Material seals                            | NBR                |
| Material housing                          | Die-cast aluminium |