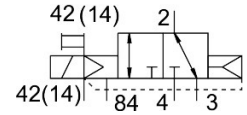
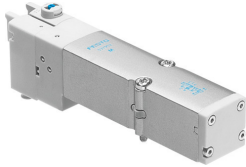


# Solenoid valve VMPA2-M1H-X-PI

Part number: 537961

FESTO



General operating condition

## Data sheet

| Feature                                               | Value                                                                                      |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                                        | 3/2-way, closed, monostable                                                                |
| Type of actuation                                     | Electric                                                                                   |
| Valve size                                            | 20 mm                                                                                      |
| Standard nominal flow rate (standardised to DIN 1343) | 470 l/min                                                                                  |
| Operating voltage                                     | 24V DC                                                                                     |
| Operating pressure                                    | -0.09 MPa ... 1 MPa                                                                        |
| Operating pressure                                    | -0.9 bar ... 10 bar                                                                        |
| Design                                                | Piston gate valve                                                                          |
| Type of reset                                         | Pneumatic 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                                                | 00991175                                                                                   |
| 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-8                  | 470 l/min                                                                                  |
| Standard nominal flow rate with QS-10                 | 480 l/min                                                                                  |
| Switching time off                                    | 22 ms                                                                                      |
| Switching time on                                     | 13 ms                                                                                      |
| Max. positive test pulse with 0 signal                | 400 µs                                                                                     |
| Max. negative test pulse with 1 signal                | 900 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                          |

| Feature                                   | Value                    |
|-------------------------------------------|--------------------------|
| Corrosion resistance class CRC            | 1 - Low corrosion stress |
| 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 | 0.65 Nm                  |
| Product weight                            | 100 g                    |
| Type of mounting                          | With through-hole        |
| Note on materials                         | RoHS-compliant           |
| Material seals                            | NBR                      |
| Material housing                          | Die-cast aluminium       |