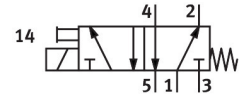


# Solenoid valve MHE2-MS1H-5/2-QS-4

Part number: 525117

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                               | Value                                                              |
|-------------------------------------------------------|--------------------------------------------------------------------|
| Valve function                                        | 5/2-way, monostable                                                |
| Type of actuation                                     | Electric                                                           |
| Construction width                                    | 10 mm                                                              |
| Standard nominal flow rate (standardised to DIN 1343) | 90 l/min                                                           |
| pneumatic working port                                | QS-4                                                               |
| Operating voltage                                     | 24V DC                                                             |
| Operating pressure                                    | -0.09 MPa ... 0.8 MPa                                              |
| Operating pressure                                    | -0.9 bar ... 8 bar                                                 |
| Operating pressure                                    | -13.05 psi ... 116 psi                                             |
| Design                                                | Pressure-relieved poppet valve                                     |
| Type of reset                                         | Mechanical spring                                                  |
| Degree of protection                                  | IP65                                                               |
| Approval                                              | RCM trademark<br>c UL us - Recognized (OL)                         |
| CE mark (see declaration of conformity)               | To EU EMC Directive<br>In accordance with EU RoHS Directive        |
| UKCA marking (see declaration of conformity)          | To UK instructions for EMC<br>To UK RoHS instructions              |
| Nominal size                                          | 2 mm                                                               |
| Grid dimension                                        | 14 mm                                                              |
| Note on grid dimension                                | Minimum distance between the valves is 4 mm                        |
| Exhaust-air function                                  | With flow control option                                           |
| Sealing principle                                     | Soft                                                               |
| Mounting position                                     | optional                                                           |
| Manual override                                       | Non-detenting                                                      |
| Type of piloting                                      | Direct                                                             |
| Flow direction                                        | Non-reversible                                                     |
| Symbol                                                | 00991129                                                           |
| lap                                                   | Underlap                                                           |
| Reverse polarity protection                           | Bipolar                                                            |
| Additional functions                                  | Spark arresting<br>Holding current reduction<br>Protective circuit |
| Max. switching frequency                              | 300 Hz                                                             |
| Switching time off                                    | 1.7 ms                                                             |
| Switching time on                                     | 1.9 ms                                                             |
| Tolerance switching time off                          | +10%/-30%                                                          |

| Feature                                              | Value                                                                                      |
|------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Tolerance switching time on                          | +10%/-30%                                                                                  |
| Switching time dispersion from 1 Hz                  | 0.2 ms                                                                                     |
| Duty cycle                                           | 100%                                                                                       |
| Characteristic coil data                             | 24 V DC: low-current phase 1.625 W, high-current phase 6.5 W                               |
| Permissible voltage fluctuations                     | +/- 10 %                                                                                   |
| 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           |
| Restrictions for environmental and media temperature | As a function of switching frequency (see graph)                                           |
| Shock resistance                                     | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27                          |
| Corrosion resistance class CRC                       | 2 - Moderate corrosion stress                                                              |
| LABS (PWIS) conformity                               | VDMA24364-B1/B2-L                                                                          |
| Cleanroom class                                      | Class 6 according to ISO 14644-1                                                           |
| Media temperature                                    | -5 °C ... 60 °C                                                                            |
| Ambient temperature                                  | -5 °C ... 60 °C                                                                            |
| Product weight                                       | 70 g                                                                                       |
| Electrical connection                                | 2-pin<br>Plugs                                                                             |
| Type of mounting                                     | With through-hole                                                                          |
| Pneumatic connection, port 1                         | QS-4                                                                                       |
| Pneumatic connection, port 2                         | QS-4                                                                                       |
| Pneumatic connection, port 3                         | QS-4                                                                                       |
| Pneumatic connection, port 4                         | QS-4                                                                                       |
| Pneumatic connection, port 5                         | QS-4                                                                                       |
| Note on materials                                    | RoHS-compliant                                                                             |
| Material seals                                       | HNBR<br>NBR                                                                                |
| Material housing                                     | Die-cast zinc, coated                                                                      |
| Material screws                                      | Galvanised steel                                                                           |