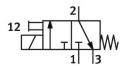
## Solenoid valve MHE4-MS1H-3/2G-QS-8 Part number: 525191

**FESTO** 





## **Data sheet**

| Feature   | Value  |
|---|--|
| Valve function  | 3/2-way, closed, monostable                                  |
| Type of actuation                                     | Electric   |
| Construction width                                    | 18 mm  |
| Standard nominal flow rate (standardised to DIN 1343) | 400 l/min  |
| pneumatic working port                                | QS-8   |
| Operating voltage                                     | 24V DC   |
| Operating pressure                                    | -0.09 MPa0.8 MPa<br>-0.9 bar8 bar<br>-13.05 psi116 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 To UK RoHS instructions           |
| Nominal size  | 4 mm   |
| Grid dimension  | 24 mm  |
| Note on grid dimension                                | Minimum distance between the valves is 6 mm                  |
| Exhaust-air function                                  | With flow control option                                     |
| Sealing principle                                     | Soft   |
| Mounting position                                     | optional   |
| Manual override                                       | Non-detenting  |
| Type of piloting                                      | Direct   |
| Flow direction  | Reversible with restrictions                                 |
| lap   | Underlap   |
| Reverse polarity protection                           | Bipolar  |
| Additional functions                                  | Spark arresting Holding current reduction Protective circuit |

| Feature                             | Value  |
|-------------------------------------|--|
| Operating pressure, reversible      | -0.09 MPa0.1 MPa<br>-0.9 bar1 bar<br>-13.05 psi14.5 psi                                    |
| Max. switching frequency            | 210 Hz   |
| Switching time off                  | 3.5 ms   |
| Switching time on                   | 3.5 ms   |
| Tolerance switching time off        | +10%/-40%  |
| Tolerance switching time on         | +10%/-30%  |
| Switching time dispersion from 1 Hz | 0.3 ms   |
| Duty cycle                          | 100%   |
| Characteristic coil data            | 24 V DC: low-current phase 2.125 W, high-current phase 8.5 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           |
| 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 °C60 °C   |
| Ambient temperature                 | -5 °C60 °C   |
| Product weight                      | 270 g  |
| Electrical connection               | 2-pin<br>Plugs   |
| Type of mounting                    | With through-hole  |
| Pneumatic connection, port 1        | QS-8   |
| Pneumatic connection, port 2        | QS-8   |
| Pneumatic connection, port 3        | QS-8   |
| Note on materials                   | RoHS-compliant   |
| Material seals                      | HNBR<br>NBR  |
| Material housing                    | Die-cast zinc, coated  |
| Material screws                     | Galvanised steel   |