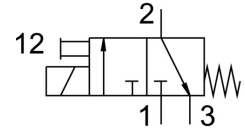


# Air solenoid valve MHP3-MS1H-3/2G-1/8

Part number: 525139

FESTO



## Data sheet

| Feature                                    | Value                                                                |
|--------------------------------------------|----------------------------------------------------------------------|
| Valve function                             | 3/2, closed, monostable                                              |
| Actuation type                             | Electrical                                                           |
| Width                                      | 14 mm                                                                |
| Standard nominal flow rate                 | 200 l/min                                                            |
| Pneumatic working port                     | G1/8                                                                 |
| Operating voltage                          | 24V DC                                                               |
| Operating pressure                         | -0.09 MPa ... 0.8 MPa                                                |
| Operating pressure                         | -0.9 bar ... 8 bar                                                   |
| Structural design                          | Pressure-relieved poppet valve                                       |
| Reset method                               | Mechanical spring                                                    |
| Degree of protection                       | IP65                                                                 |
| Certification                              | RCM compliance mark<br>c UL us - Recognized (OL)                     |
| KC characters                              | KC EMC                                                               |
| CE marking (see declaration of conformity) | As per EU EMC directive                                              |
| Nominal width                              | 3 mm                                                                 |
| Width dimension                            | 19 mm                                                                |
| Note on grid dimension                     | Minimum distance between the valves is 5 mm                          |
| Type code                                  | MH3                                                                  |
| Exhaust air function                       | With flow control option                                             |
| Sealing principle                          | Soft                                                                 |
| Mounting position                          | Any                                                                  |
| Manual override                            | Non-detenting                                                        |
| Type of control                            | Direct                                                               |
| Flow direction                             | Reversible with restrictions                                         |
| Symbol                                     | 00991308                                                             |
| Lap                                        | Underlap                                                             |
| Reverse polarity protection                | Bipolar                                                              |
| Additional functions                       | Spark suppression<br>Holding current reduction<br>Protective circuit |
| Operating pressure, reversible             | -0.09 MPa ... 0.1 MPa                                                |
| Operating pressure, reversible             | -0.9 bar ... 1 bar                                                   |
| Operating pressure, reversible             | -13.05 psi ... 14.5 psi                                              |
| Max. switching frequency                   | 280 Hz                                                               |
| Switching time off                         | 2.8 ms                                                               |

| Feature                                    | Value                                                                                |
|--------------------------------------------|--------------------------------------------------------------------------------------|
| On switching time                          | 2.3 ms                                                                               |
| Tolerance for switching time off           | +10 %/-50 %                                                                          |
| Tolerance for ON switching time            | +10%/-30%                                                                            |
| Switching time variation at 1 Hz and above | 0.2 ms                                                                               |
| Duty cycle                                 | 100%                                                                                 |
| Coil characteristics                       | 24 V DC: low-current phase 1.6 W, high-current phase 6.5 W                           |
| Permissible voltage fluctuations           | +/- 10 %                                                                             |
| 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)                   |
| Vibration resistance                       | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| Restricted ambient and media temperature   | Depending on the switching frequency (see diagram)                                   |
| Shock resistance                           | Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27                |
| Corrosion resistance class (CRC)           | 2 - Moderate corrosion stress                                                        |
| Temperature of medium                      | -5 °C ... 40 °C                                                                      |
| Ambient temperature                        | -5 °C ... 40 °C                                                                      |
| Product weight                             | 120 g                                                                                |
| Electrical connection                      | 2-pin<br>Plug                                                                        |
| Type of mounting                           | On PR rail                                                                           |
| Pneumatic connection 1                     | Sub-base                                                                             |
| Pneumatic connection 2                     | G1/8                                                                                 |
| Pneumatic connection 3                     | Sub-base                                                                             |
| Note on materials                          | Free of copper and PTFE<br>RoHS-compliant                                            |
| Seals material                             | HNBR<br>NBR                                                                          |
| Housing material                           | Die-cast zinc<br>Coated                                                              |
| Material of screws                         | Steel<br>Galvanized                                                                  |