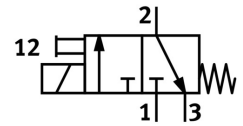


# Solenoid valve

## MHP4-M1H-3/2G-1/4

Part number: 525178

FESTO



 General operating condition

## Data sheet

| Feature                            | Value                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                     | 3/2-way, closed, monostable                                                                |
| Type of actuation                  | Electric                                                                                   |
| Construction width                 | 18 mm                                                                                      |
| Standard nominal flow rate         | 400 l/min                                                                                  |
| pneumatic working port             | G1/4                                                                                       |
| Operating voltage                  | 24V DC                                                                                     |
| Operating pressure                 | -0.09 MPa ... 0.8 MPa                                                                      |
| Operating pressure                 | -0.9 bar ... 8 bar                                                                         |
| Design                             | Pressure-relieved poppet valve                                                             |
| Type of reset                      | Mechanical spring                                                                          |
| Degree of protection               | IP65                                                                                       |
| Approval                           | c UL us - Recognized (OL)                                                                  |
| 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                                                               |
| Symbol                             | 00991308                                                                                   |
| lap                                | Underlap                                                                                   |
| 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           | 120 Hz                                                                                     |
| Switching time off                 | 5 ms                                                                                       |
| Switching time on                  | 10.5 ms                                                                                    |
| Duty cycle                         | 100%                                                                                       |
| Characteristic coil data           | 24 V DC: 5.6 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) |

| Feature                        | Value                                                                            |
|--------------------------------|----------------------------------------------------------------------------------|
| 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 °C ... 40 °C                                                                  |
| Ambient temperature            | -5 °C ... 40 °C                                                                  |
| Product weight                 | 270 g                                                                            |
| Electrical connection          | 2-pin<br>Plugs                                                                   |
| Type of mounting               | On PR rail                                                                       |
| Pneumatic connection, port 1   | Sub-base                                                                         |
| Pneumatic connection, port 2   | G1/4                                                                             |
| Pneumatic connection, port 3   | Sub-base                                                                         |
| Note on materials              | RoHS-compliant                                                                   |
| Material seals                 | HNBR<br>NBR                                                                      |
| Material housing               | Die-cast zinc, coated                                                            |
| Material screws                | Galvanised steel                                                                 |