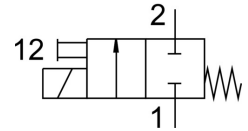


# Air solenoid valve

## MHP1-M4H-2/2G-M3-PI

FESTO

Part number: 197051



### Data sheet

| Feature                                  | Value  |
|--|--|
| Valve function                           | 2/2, closed, monostable  |
| Actuation type                           | Electrical   |
| Width                                    | 10 mm  |
| Standard nominal flow rate               | 14 l/min   |
| Pneumatic working port                   | M3   |
| Operating voltage                        | 5V DC  |
| Operating pressure                       | -0.9 bar ... 2 bar   |
| Structural design                        | Poppet valve with return spring                                    |
| Reset method                             | Mechanical spring  |
| Degree of protection                     | IP40   |
| Certification                            | c UL us - Recognized (OL)  |
| Certificate issuing authority            | UL MH19482   |
| Nominal width                            | 0.9 mm   |
| Width dimension                          | 10 mm  |
| Type code                                | MHP1   |
| Exhaust air function                     | Without flow control option  |
| Sealing principle                        | Soft   |
| Mounting position                        | Any  |
| Manual override                          | Non-detenting  |
| Type of control                          | Direct   |
| Flow direction                           | Non-reversible   |
| Symbol                                   | 00991398   |
| Valve position ID                        | Label  |
| Lap                                      | Underlap   |
| Note on forced dynamization              | Switching frequency at least once a week                           |
| Suitability for vacuum                   | yes  |
| Max. switching frequency                 | 20 Hz  |
| Switching time off                       | 5 ms   |
| On switching time                        | 4 ms   |
| Duty cycle                               | 100%   |
| Electrical power consumption             | 1 W  |
| Coil characteristics                     | 5 V DC: 1.0 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) |

| Feature                          | Value  |
|----------------------------------|--|
| Vibration resistance             | Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6 |
| 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  |
| Storage temperature              | -20 °C ... 60 °C   |
| Temperature of medium            | -5 °C ... 40 °C  |
| Ambient temperature              | -5 °C ... 40 °C  |
| Product weight                   | 10 g   |
| Electrical connection            | Plug   |
| Type of mounting                 | On sub-base<br>With through-hole   |
| Pneumatic connection 1           | Sub-base   |
| Pneumatic connection 2           | M3   |
| Note on materials                | Free of copper and PTFE<br>RoHS-compliant  |
| Seals material                   | FPM<br>HNBR<br>NBR   |
| Housing material                 | PA-reinforced<br>PPS-reinforced  |