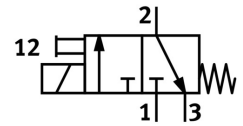


# Solenoid valve MHP1-M4H-3/2G-M3-PI

Part number: 197015

FESTO



 General operating condition

## Data sheet

| Feature                            | Value                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                     | 3/2-way, closed, monostable                                                                |
| Type of actuation                  | Electric                                                                                   |
| Construction width                 | 10 mm                                                                                      |
| Standard nominal flow rate         | 10 l/min                                                                                   |
| pneumatic working port             | M3                                                                                         |
| Operating voltage                  | 5V DC                                                                                      |
| Operating pressure                 | 0 MPa ... 0.8 MPa                                                                          |
| Operating pressure                 | 0 bar ... 8 bar                                                                            |
| Operating pressure                 | 0 psi ... 116 psi                                                                          |
| Design                             | Poppet valve with spring return                                                            |
| Type of reset                      | Mechanical spring                                                                          |
| Degree of protection               | IP40                                                                                       |
| Approval                           | c UL us - Recognized (OL)                                                                  |
| Certificate issuing authority      | UL MH19482                                                                                 |
| Nominal size                       | 0.65 mm                                                                                    |
| Grid dimension                     | 10 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                             | 00991308                                                                                   |
| Valve position code                | Label                                                                                      |
| lap                                | Underlap                                                                                   |
| Note on forced dynamization        | Switching frequency min. 1/week                                                            |
| Max. switching frequency           | 20 Hz                                                                                      |
| Switching time off                 | 4 ms                                                                                       |
| Switching time on                  | 4 ms                                                                                       |
| Duty cycle                         | 100%                                                                                       |
| Electrical power consumption       | 1 W                                                                                        |
| Characteristic coil data           | 5 V DC: 1.0 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-B2-L                                                                   |
| Storage temperature            | -20 °C ... 60 °C                                                                 |
| Media temperature              | -5 °C ... 40 °C                                                                  |
| Ambient temperature            | -5 °C ... 40 °C                                                                  |
| Product weight                 | 10 g                                                                             |
| Electrical connection          | Plugs                                                                            |
| Type of mounting               | On sub-base<br>With through-hole                                                 |
| Pneumatic connection, port 1   | Sub-base                                                                         |
| Pneumatic connection, port 2   | M3                                                                               |
| Pneumatic connection, port 3   | Sub-base                                                                         |
| Note on materials              | RoHS-compliant                                                                   |
| Material seals                 | FPM<br>HNBR<br>NBR                                                               |
| Material housing               | PA-reinforced<br>PPS reinforced                                                  |