

# Solenoid valve

## MHP1-M5H-3/2G-M3-TC

Part number: 197013

FESTO



 [General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function  | 3/2-way, single solenoid, closed   |
| Type of actuation                                     | Electrical   |
| Construction width                                    | 10 mm  |
| Standard nominal flow rate (standardised to DIN 1343) | 10 l/min   |
| pneumatic working port                                | M3   |
| Operating voltage                                     | 12 V 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 - Recognised (Oil)   |
| Certificate issuing authority                         | UL MH19482   |
| Nominal size  | 0.65 mm  |
| Grid dimension  | 10 mm  |
| Exhaust-air function                                  | Can be throttled   |
| Sealing principle                                     | Soft   |
| Mounting position                                     | Any  |
| 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                              | 12 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) |

| <b>Feature</b>                 | <b>Value</b>   |
|--------------------------------|--|
| 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          | Plug   |
| 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                 | Fluoro rubber<br>HNBR<br>NBR   |
| Material housing               | Reinforced PPS   |