

# Solenoid valve

## MHA1-M4H-2/2G-0,9-HC

Part number: 197036

FESTO



 [General operating condition](#)

## Data sheet

| Feature   | Value                                     |
|---|---|
| Valve function  | 2/2-way, closed, monostable               |
| Type of actuation                                     | Electric                                  |
| Construction width                                    | 10 mm                                     |
| Standard nominal flow rate (standardised to DIN 1343) | 14 l/min                                  |
| pneumatic working port                                | Sub-base                                  |
| Operating voltage                                     | 5V DC                                     |
| Operating pressure                                    | -0.09 MPa ... 0.2 MPa                     |
| Operating pressure                                    | -0.9 bar ... 2 bar                        |
| Operating pressure                                    | -13.05 psi ... 29 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  | 0.9 mm                                    |
| Grid dimension  | 10 mm                                     |
| Exhaust-air function                                  | Without flow control option               |
| Sealing principle                                     | Soft                                      |
| Mounting position                                     | optional                                  |
| Manual override                                       | Non-detenting                             |
| Type of piloting                                      | Direct                                    |
| Flow direction  | Non-reversible                            |
| Symbol  | 00991398                                  |
| Valve position code                                   | Label                                     |
| lap   | Underlap                                  |
| Note on forced dynamization                           | Switching frequency min. 1/week           |
| Suitability for vacuum                                | yes                                       |
| Max. switching frequency                              | 20 Hz                                     |
| Switching time off                                    | 5 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] |

| Feature                            | Value  |
|------------------------------------|--|
| Note on operating and pilot medium | Lubricated operation possible (in which case lubricated operation will always be required) |
| 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       | Sub-base   |
| Note on materials                  | RoHS-compliant   |
| Material seals                     | FPM<br>HNBR<br>NBR   |
| Material housing                   | PPS reinforced   |