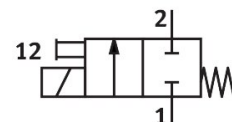


# Solenoid valve

## MHA1-M1H-2/2G-0,9-HC

Part number: 197038

FESTO



## 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                                     | 24V DC                                                         |
| Operating pressure                                    | -0.09 MPa...0.2 MPa<br>-0.9 bar...2 bar<br>-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                                                 |
| 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                                                            |
| Max. positive test pulse with 0 signal                | 500 µs                                                         |

| Feature                                | Value                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------------|
| Max. negative test pulse with 1 signal | 400 µs                                                                                     |
| Characteristic coil data               | 24 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) |
| 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                       | PA-reinforced<br>PPS reinforced                                                            |