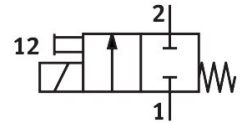


# Air solenoid valve MHA1-M5H-2/2G-0,9-HC

Part number: 197037

FESTO



## Data sheet

| Feature                                           | Value                                                          |
|---------------------------------------------------|----------------------------------------------------------------|
| Valve function                                    | 2/2-way, closed, monostable                                    |
| Actuation type                                    | Electrical                                                     |
| Width                                             | 10 mm                                                          |
| Normal nominal flow rate (normalized to DIN 1343) | 14 l/min                                                       |
| Pneumatic working port                            | Sub-base                                                       |
| Operating voltage                                 | 12V DC                                                         |
| Operating pressure                                | -0.09 MPa...0.2 MPa<br>-0.9 bar...2 bar<br>-13.05 psi...29 psi |
| Structural design                                 | Poppet valve with spring return                                |
| 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                                                          |
| Exhaust air function                              | Cannot be throttled                                            |
| Sealing principle                                 | Soft                                                           |
| Mounting position                                 | Any                                                            |
| Manual override                                   | Non-detenting                                                  |
| Type of control                                   | directly                                                       |
| Flow direction                                    | Non-reversible                                                 |
| Valve position ID                                 | Label                                                          |
| Lap                                               | Negative overlap                                               |
| 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                              | 12 V DC: 1.0 W                                                 |

| Feature                                  | Value                                                                                |
|------------------------------------------|--------------------------------------------------------------------------------------|
| 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)                   |
| 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                                                        |
| LABS (PWIS) conformity                   | VDMA24364-B2-L                                                                       |
| 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                   | Sub-base                                                                             |
| Note on materials                        | RoHS compliant                                                                       |
| Seals material                           | FPM<br>HNBR<br>NBR                                                                   |
| Housing material                         | PA-reinforced<br>PPS-reinforced                                                      |