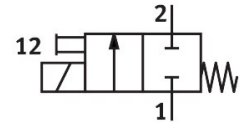


# Air solenoid valve MHA1-M1H-2/2G-0,9-HC

Part number: 197038

FESTO



 General operating condition

## Data sheet

| Feature                                | Value                                    |
|----------------------------------------|------------------------------------------|
| Valve function                         | 2/2, closed, monostable                  |
| Actuation type                         | Electrical                               |
| Width                                  | 10 mm                                    |
| Standard nominal flow rate             | 14 l/min                                 |
| Pneumatic working port                 | Sub-base                                 |
| Operating voltage                      | 24V DC                                   |
| Operating pressure                     | -0.09 MPa ... 0.2 MPa                    |
| Operating pressure                     | -0.9 bar ... 2 bar                       |
| Operating pressure                     | -13.05 psi ... 29 psi                    |
| Structural design                      | Poppet valve with return spring          |
| 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                   | Without flow control option              |
| Sealing principle                      | Soft                                     |
| Mounting position                      | Any                                      |
| Manual override                        | Non-detenting                            |
| Type of control                        | Direct                                   |
| Flow direction                         | Non-reversible                           |
| Symbol                                 | 00991398                                 |
| Valve position ID                      | Label                                    |
| Lap                                    | Underlap                                 |
| 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                                      |
| Max. positive test pulse with 0 signal | 500 µs                                   |
| Max. negative test pulse on 1 signal   | 400 µs                                   |
| Coil characteristics                   | 24 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                         | 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                         | PPS-reinforced                                                                       |