

# Air solenoid valve MHA3-M1H-3/2G-3

Part number: 525134

FESTO



 General operating condition

## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Valve function                           | 3/2, closed, monostable                                            |
| Actuation type                           | Electrical                                                         |
| Width                                    | 14 mm                                                              |
| Standard nominal flow rate               | 200 l/min                                                          |
| Pneumatic working port                   | Sub-base                                                           |
| Operating voltage                        | 24V DC                                                             |
| Operating pressure                       | -0.09 MPa ... 0.8 MPa                                              |
| Operating pressure                       | -0.9 bar ... 8 bar                                                 |
| Operating pressure                       | -13.05 psi ... 116 psi                                             |
| Structural design                        | Pressure-relieved poppet valve                                     |
| Reset method                             | Mechanical spring                                                  |
| Degree of protection                     | IP65                                                               |
| Certification                            | c UL us - Recognized (OL)                                          |
| Nominal width                            | 3 mm                                                               |
| Width dimension                          | 19 mm                                                              |
| Note on grid dimension                   | Minimum distance between the valves is 5 mm                        |
| Exhaust air function                     | With flow control option                                           |
| Sealing principle                        | Soft                                                               |
| Mounting position                        | Any                                                                |
| Manual override                          | Non-detenting                                                      |
| Type of control                          | Direct                                                             |
| Flow direction                           | Reversible with restrictions                                       |
| Symbol                                   | 00991308                                                           |
| Lap                                      | Underlap                                                           |
| Operating pressure, reversible           | -0.09 MPa ... 0.1 MPa                                              |
| Operating pressure, reversible           | -0.9 bar ... 1 bar                                                 |
| Operating pressure, reversible           | -13.05 psi ... 14.5 psi                                            |
| Max. switching frequency                 | 130 Hz                                                             |
| Switching time off                       | 4.5 ms                                                             |
| On switching time                        | 8.3 ms                                                             |
| Duty cycle                               | 100%                                                               |
| Coil characteristics                     | 24 V DC: 3.7 W                                                     |
| 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) |

| Feature                          | Value                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------|
| 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-B1/B2-L                                                                    |
| Cleanroom class                  | Class 6 according to ISO 14644-1                                                     |
| Temperature of medium            | -5 °C ... 40 °C                                                                      |
| Ambient temperature              | -5 °C ... 40 °C                                                                      |
| Product weight                   | 120 g                                                                                |
| Electrical connection            | 2-pin<br>Plug                                                                        |
| Type of mounting                 | On PR rail                                                                           |
| Pneumatic connection 1           | Sub-base                                                                             |
| Pneumatic connection 2           | Sub-base                                                                             |
| Pneumatic connection 3           | Sub-base                                                                             |
| Note on materials                | RoHS-compliant                                                                       |
| Seals material                   | HNBR<br>NBR                                                                          |
| Housing material                 | Die-cast metal, coated                                                               |
| Material of screws               | Steel, galvanized                                                                    |