

Air solenoid valve MHA2-M1H-3/20-2

Part number: 196138

FESTO



[PDF](#) General operating condition

Data sheet

| Feature | Value |
|---|--|
| Valve function | 3/2, open, monostable |
| Actuation type | Electrical |
| Width | 10 mm |
| Normal nominal flow rate (normalized to DIN 1343) | 100 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 | 2 mm |
| Width dimension | 14 mm |
| Note on grid dimension | Minimum distance between the valves is 4 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 | 00991322 |
| 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 | 3.5 ms |
| On switching time | 7 ms |
| Duty cycle | 100% |
| Coil characteristics | 24 V DC: 2.88 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 suitability, measured according to ISO 14644-14 | Class 6 according to ISO 14644-1 |
| Temperature of medium | -5 °C ... 40 °C |
| Ambient temperature | -5 °C ... 40 °C |
| Product weight | 60 g |
| Electrical connection | Plug |
| Type of mounting | On sub-base |
| Pneumatic connection 11 | Sub-base |
| Pneumatic connection 2 | Sub-base |
| Pneumatic connection 33 | Sub-base |
| Note on materials | RoHS-compliant |
| Seals material | HNBR NBR |
| Housing material | Die-cast metal, coated |
| Material of screws | Steel, galvanized |