



## Air solenoid valve

### MHA3-MS1H-3/2G-3

URL:<https://www.sxplc.com/air-solenoid-valve-mha3-ms1h-3-2g-3>

## Product data sheet

- 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
- Structural design Pressure-relieved poppet valve
- Reset method Mechanical spring
- Degree of protection IP65
- Certification RCM compliance mark c UL us - Recognized (OL)
- CE marking (see declaration of conformity) As per EU EMC directive As per EU RoHS directive
- UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions
- 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
- Reverse polarity protection Bipolar
- Additional functions Spark suppression Holding current reduction Protective circuit
- 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 280 Hz
- Switching time off 2.8 ms
- On switching time 2.3 ms
- Tolerance for switching time off +10 %/-50 %
- Tolerance for ON switching time +10%/-30%
- Switching time variation at 1 Hz and above 0.2 ms
- Duty cycle 100%
- Coil characteristics 24 V DC: low-current phase 1.6 W, high-current phase 6.5 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)
- Vibration resistance Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
- Restricted ambient and media temperature Depending on the switching frequency (see diagram)
- 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 VDMA 24364-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 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 NBR
  - Housing material Die-cast metal, coated
  - Material of screws Steel, galvanized
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