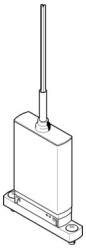
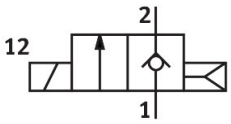
# Solenoid valve
# MHJ10-S-2,5-MF

Part number: 565513






General operating condition

## Data sheet

| Feature | Value |
|---|---|
| Valve function | 2/2-way, closed, monostable |
| Type of actuation | Electric |
| Construction width | 10 mm |
| Standard nominal flow rate (standardised to DIN 1343) | 100 l/min |
| pneumatic working port | Sub-base |
| Operating voltage | 24V DC |
| Operating pressure | 0.05 MPa ... 0.6 MPa |
| Operating pressure | 0.5 bar ... 6 bar |
| Operating pressure | 7.25 psi ... 87 psi |
| Design | Poppet valve without spring return |
| Type of reset | Pneumatic spring |
| Degree of protection | IP55 |
| Approval | RCM trademark |
| CE mark (see declaration of conformity) | To EU EMC Directive<br>In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions |
| Grid dimension | 10.5 mm |
| Note on operation | Fixed power supply must be able to supply at least 1.7 A without voltage drop<br>Do not operate without flow.<br>For block mounting with flow, max. ambient temperature 45°C. |
| Sealing principle | Hard |
| Mounting position | optional |
| Manual override | None |
| Type of piloting | Direct |
| Flow direction | Non-reversible |
| Symbol | 00992259 |
| Reverse polarity protection | For operating voltage |
| Additional functions | Spark arresting<br>Holding current reduction with energy recovery<br>Safety shut-off |
| b value | 0.38 |
| C value | 0.4 l/sbar |
| Max. switching frequency | 1000 Hz |
| Switching time on 0.4 MPa (4 bar, 58 psi) and 24 V in new condition | 0.8 ms |
| Switching time off 0.4 MPa (4 bar, 58 psi) and 24 V in new condition | 0.4 ms |

| Feature | Value |
|---|---|
| Switching time on 0.05 MPa (0.5 bar, 7.25 psi) and 24 V in new condition | 0.8 ms |
| Switching time off 0.05 MPa (0.5 bar, 7.25 psi) and 24 V in new condition | 0.5 ms |
| Switching time on 0.6 MPa (6 bar, 87 psi) and 24 V in new condition | 0.9 ms |
| Switching time off 0.6 MPa (6 bar, 87 psi) and 24 V in new condition | 0.4 ms |
| Tolerance switching time off | +15%/-25% |
| Tolerance switching time on | +/-15% |
| Operational voltage range DC | 21.6 V ... 26.4 V |
| Input resistance | 34 kOhm |
| Duty cycle | 100% |
| Characteristic coil data | 24 V DC: low-current phase 2.0 W, high-current phase 7.0 W |
| Trigger signal voltage range DC | 3 V ... 30 V |
| Note on input current | Linear rise<br>0.09-0.44 mA with a trigger signal of 3-15 V<br>0.44-15.44 mA with a trigger signal of 15-30 V |
| Permissible voltage fluctuations | +/- 10 % |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation not possible |
| Restrictions for environmental and media temperature | As a function of switching frequency (see graph) |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B2-L |
| Storage temperature | -20 °C ... 50 °C |
| Permissible solenoid surface temperature | 120 °C |
| Media temperature | -5 °C ... 60 °C |
| Ambient temperature | -5 °C ... 60 °C |
| Max. tightening torque for valve mounting | 0.7 Nm |
| Product weight | 75 g |
| Electrical connection | 3-wire<br>Cable |
| Cable length | 2.5 m |
| Type of mounting | On sub-base |
| Pneumatic connection, port 1 | Sub-base |
| Pneumatic connection, port 2 | Sub-base |
| Note on materials | RoHS-compliant |
| Material seals | HNBR |
| Material housing | PPS reinforced |
| Material cable sheath | PUR |
| Material screws | Steel |