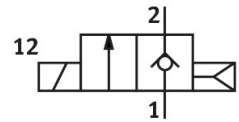
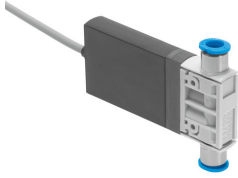


Air solenoid valve

MHJ10-S-2,5-QS-1/4-HF/LP-U

Part number: 567800

FESTO



Data sheet

| Feature | Value |
|--|---|
| Valve function | 2/2, closed, monostable |
| Actuation type | Electrical |
| Width | 10 mm |
| Standard nominal flow rate | 160 l/min |
| Pneumatic working port | QS-1/4 |
| Operating voltage | 24V DC |
| Operating pressure | 0.05 MPa...0.4 MPa 0.5 bar...4 bar 7.25 psi...58 psi |
| Structural design | Poppet valve without return spring |
| Reset method | Pneumatic spring |
| Degree of protection | IP55 |
| Certification | RCM compliance mark |
| 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 |
| Width dimension | 10.5 mm |
| Information on operation | Power supply unit must be able to supply at least 1.7 A without voltage drop. Do not operate without flow. For block assembly with flow rate at max. ambient temperature 45 °C. |
| Sealing principle | Hard |
| Mounting position | Any |
| Manual override | None |
| Type of control | Direct |
| Flow direction | Non-reversible |
| Reverse polarity protection | for operating voltage |
| Additional functions | Spark suppression Holding current reduction with energy recovery Safety shut-down |
| b-value | 0.36 |
| C value | 0.66 l/sbar |
| Max. switching frequency | 500 Hz |

| Feature | Value |
|---|---|
| Switching time on at 4 bar and 24 V in new condition | 1 ms |
| Switching time off at 4 bar and 24 V in new condition | 0.5 ms |
| Switching time on at 0.5 bar and 24 V in new condition | 0.8 ms |
| Switching time off at 0.5 bar and 24 V in new condition | 0.6 ms |
| Tolerance for switching time off | +15 %/-25 % |
| Tolerance for ON switching time | +/-15 % |
| DC operating voltage range | 21.6 V...26.4 V |
| Input resistance | 34 kOhm |
| Duty cycle | 100% |
| Coil characteristics | 24 V DC: low-current phase 2.0 W, high-current phase 7.0 W |
| Trigger signal range DC | 3 V...30 V |
| Note on input current | Linear increase 0.09-0.44 mA for a trigger signal of 3-15 V 0.44-15.44 mA for a trigger signal of 15-30 V |
| 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 not possible |
| Restricted ambient and media temperature | Depending on the switching frequency (see diagram) |
| 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 |
| Temperature of medium | -5 °C...60 °C |
| Ambient temperature | -5 °C...60 °C |
| Product weight | 85 g |
| Electrical connection | 3-wire Cable |
| Cable length | 2.5 m |
| Type of mounting | Line installation With through-hole Optionally: |
| Pneumatic connection 1 | QS-1/4 |
| Pneumatic connection 2 | QS-1/4 |
| Note on materials | RoHS-compliant |
| Seals material | HNBR |
| Housing material | PA-reinforced PPS-reinforced |
| Material of cable sheath | PUR |
| Material of screws | Steel |