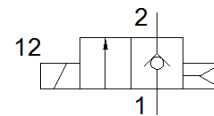


solenoid valve

MHJ10-S-2,5-QS-1/4-MF-U

Part number: 565517

FESTO



Data sheet

| Feature | Value |
|--|---|
| Valve function | 2/2 closed, monostable |
| Type of actuation | electrical |
| Width | 10 mm |
| Standard nominal flow rate | 100 l/min |
| Operating pressure MPa | 0.05 ... 0.6 MPa |
| Operating pressure | 0.5 ... 6 bar |
| Design structure | Poppet valve without spring return |
| Type of reset | Air spring |
| Protection class | IP55 |
| Authorisation | RCM Mark |
| CE mark (see declaration of conformity) | to EU directive for EMC in accordance with EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| Grid dimension | 10.5 mm |
| Note 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 mounting with flow, max. ambient temperature 45°C. |
| Sealing principle | Hard |
| Assembly position | Any |
| Manual override | None |
| Type of piloting | direct |
| Flow direction | non reversible |
| Polarity protected | for operating voltage |
| Additional functions | Spark arresting Reduction of holding current with energy recovery Safety shut-off |
| b value | 0.38 |
| C value | 0.4 l/sbar |
| Maximum switching frequency | 1,000 Hz |
| Switching time on at 0.4 MPa (4 bar, 58 psi) and 24 V in new condition | 0.8 ms |
| Switching time off at 0.4 MPa (4 bar, 58 psi) and 24 V in new condition | 0.4 ms |
| Switching time on at 0.05 MPa (0.5 bar, 7.25 psi) and 24 V in new condition | 0.8 ms |
| Switching time off at 0.05 MPa (0.5 bar, 7.25 psi) and 24 V in new condition | 0.5 ms |
| Switching time on at 0.6 MPa (6 bar, 87 psi) and 24 V in new condition | 0.9 ms |
| Switching time off at 0.6 MPa (6 bar, 87 psi) and 24 V in new condition | 0.4 ms |
| Tolerance for Switching time OFF | +15 %/-25 % |
| Tolerance for Switching time ON | +/-15 % |
| Operating voltage range DC | 21.6 ... 26.4 V |
| Input resistance | 34 kOhm |
| Duty cycle | 100 % |
| Characteristic coil data | 24 V DC: low-current phase 2 W, high-current phase 7 W |
| Trigger signal range DC | 3 ... 30 V |
| Note on feeder current | Linear rise 0.09 - 0.44 mA with a trigger signal of 3 - 15 V |

| Feature | Value |
|---|--|
| | 0.44-15.44 mA with a trigger signal of 15-30 V |
| Permissible voltage fluctuation | +/- 10 % |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation not possible |
| Restriction ambient and medium temperature | related to switching frequency |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress |
| PWIS conformity | VDMA24364-B2-L |
| Storage temperature | -20 ... 50 °C |
| Max. permissible solenoid surface temperature | 120 °C |
| Medium temperature | -5 ... 60 °C |
| Ambient temperature | -5 ... 60 °C |
| Product weight | 85 g |
| Electrical connection | 3-core Cable |
| Cable length | 2.5 m |
| Mounting type | Line installation with through hole Optional |
| Pneumatic connection, port 1 | QS-1/4 |
| Pneumatic connection, port 2 | QS-1/4 |
| Materials note | Conforms to RoHS |
| Material seals | HNBR |
| Material housing | PA-reinforced PPS-reinforced |
| Material cable sheath | PUR |
| Material screws | Steel |