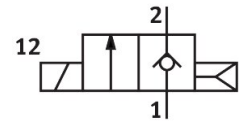


Solenoid valve MHJ9-HF

Part number: 553117

FESTO



 General operating condition

Data sheet

| Feature | Value |
|---|---|
| Valve function | 2/2-way, single solenoid, closed |
| Type of actuation | Electrical |
| Construction width | 9 mm |
| Standard nominal flow rate (standardised to DIN 1343) | 160 l/min |
| pneumatic working port | Sub-base |
| Operating voltage | 24 V 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 | IP40 |
| Grid dimension | 9.5 mm |
| Operating conditions to DIN VDE 0580 | S3 50% 20 min. with individual valve S3 15% 20 min. with block mount |
| Note on operation | Do not operate without flow. |
| Sealing principle | Hard |
| Mounting position | Any |
| Manual override | None |
| Type of piloting | Direct |
| Flow direction | Non-reversible |
| Symbol | 00992259 |
| b value | 0.36 |
| C value | 0.66 l/sbar |
| Max. switching frequency | 500 Hz |
| Switching time on 0.4 MPa (4 bar, 58 psi) and 24 V in new condition | 1 ms |
| Switching time off 0.4 MPa (4 bar, 58 psi) and 24 V in new condition | 0.5 ms |
| Switching time on 0.4 MPa (4 bar, 58 psi) and 48 V in new condition | 0.8 ms |
| Switching time off 0.4 MPa (4 bar, 58 psi) and 48 V in new condition | 0.4 ms |
| Switching time on 0.4 MPa (4 bar, 58 psi) and 12 V in new condition | 1.4 ms |
| Switching time off 0.4 MPa (4 bar, 58 psi) and 12 V in new condition | 0.6 ms |
| Switching time on 0.05 MPa (0.5 bar, 7.25 psi) and 24 V in new condition | 0.9 ms |
| Switching time off 0.05 MPa (0.5 bar, 7.25 psi) and 24 V in new condition | 0.7 ms |
| Switching time on 0.6 MPa (6 bar, 87 psi) and 24 V in new condition | 1.3 ms |
| Switching time off 0.6 MPa (6 bar, 87 psi) and 24 V in new condition | 0.5 ms |
| Tolerance switching time off | +15%/-25% |

| Feature | Value |
|--|---|
| Tolerance switching time on | +/-15 % |
| Operational voltage range DC | 12 V ... 53 V |
| Note regarding operating voltage | Operation only with connecting cable MHJ9-KMH-... |
| Coil resistance R20 | 5 Ohm |
| 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 | 0.28 Nm |
| Product weight | 25 g |
| Electrical connection | 2-pin Plug KMH |
| 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 | Reinforced PA |
| Material screws | Steel |