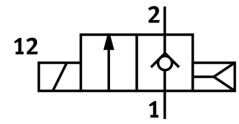
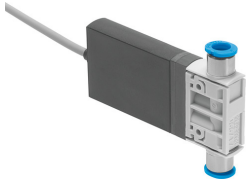


# Air solenoid valve MHJ10-S-2,5-QS-1/4-MF-U

Part number: 565517

FESTO



 General operating condition

## Data sheet

| Feature  | Value   |
|--|---|
| Valve function   | 2/2, closed, monostable   |
| Actuation type   | Electrical  |
| Width  | 10 mm   |
| Standard nominal flow rate                             | 100 l/min   |
| Pneumatic working port                                 | QS-1/4  |
| Operating voltage                                      | 24V DC  |
| Operating pressure                                     | 0.05 MPa ... 0.6 MPa  |
| Operating pressure                                     | 0.5 bar ... 6 bar   |
| 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<br>As per EU RoHS directive   |
| UKCA marking (see declaration of conformity)           | To UK instructions for EMC<br>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.<br>Do not operate without flow.<br>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  |
| Symbol   | 00992259  |
| Reverse polarity protection                            | for operating voltage   |
| Additional functions                                   | Spark suppression<br>Holding current reduction with energy recovery<br>Safety shut-down   |
| b-value  | 0.38  |
| C value  | 0.4 l/sbar  |
| Max. switching frequency                               | 1000 Hz   |
| Switching time on at 4 bar and 24 V in new condition   | 0.8 ms  |
| Switching time off at 4 bar and 24 V in new condition  | 0.4 ms  |
| Switching time on at 0.5 bar and 24 V in new condition | 0.8 ms  |

| Feature   | Value   |
|---|---|
| Switching time off at 0.5 bar and 24 V in new condition | 0.5 ms  |
| Switching time on at 6 bar and 24 V in new condition    | 0.9 ms  |
| Switching time off at 6 bar and 24 V in new condition   | 0.4 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<br>0.09-0.44 mA for a trigger signal of 3-15 V<br>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<br>Cable   |
| Cable length  | 2.5 m   |
| Type of mounting  | Optionally:<br>Line installation<br>With through-hole   |
| Pneumatic connection 1                                  | QS-1/4  |
| Pneumatic connection 2                                  | QS-1/4  |
| Note on materials                                       | RoHS-compliant  |
| Seals material  | HNBR  |
| Housing material  | PA-reinforced<br>PPS-reinforced   |
| Material of cable sheath                                | PUR   |
| Material of screws                                      | Steel   |