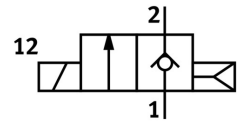


# Air solenoid valve MHJ9-HF

Part number: 553117

FESTO



 General operating condition

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function  | 2/2, closed, monostable  |
| Actuation type  | Electrical   |
| Width   | 9 mm   |
| Standard nominal flow rate                              | 160 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  |
| Structural design                                       | Poppet valve without return spring   |
| Reset method  | Pneumatic spring   |
| Degree of protection                                    | IP40   |
| Width dimension   | 9.5 mm   |
| Operating conditions to DIN VDE 0580                    | S3 50% 20min. for single pneumatic valve<br>S3 15% 20 min for block assembly |
| Information on operation                                | Do not operate without flow.   |
| Sealing principle                                       | Hard   |
| Mounting position                                       | Any  |
| Manual override   | None   |
| Type of control   | 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 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 4 bar and 48 V in new condition    | 0.8 ms   |
| Switching time off at 4 bar and 48 V in new condition   | 0.4 ms   |
| Switching time on at 4 bar and 12 V in new condition    | 1.4 ms   |
| Switching time off at 4 bar and 12 V in new condition   | 0.6 ms   |
| Switching time on at 0.5 bar and 24 V in new condition  | 0.9 ms   |
| Switching time off at 0.5 bar and 24 V in new condition | 0.7 ms   |
| Switching time on at 6 bar and 24 V in new condition    | 1.3 ms   |
| Switching time off at 6 bar and 24 V in new condition   | 0.5 ms   |
| Tolerance for switching time off                        | +15 %/-25 %  |
| Tolerance for ON switching time                         | +/-15 %  |

| Feature                                   | Value  |
|---|--|
| DC operating voltage range                | 12 V ... 53 V                                      |
| Note regarding operating voltage          | Operation only with connecting cable MHJ9-KMH-...  |
| Coil resistance                           | 5 Ohm  |
| 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                                    |
| Max. tightening torque for valve mounting | 0.28 Nm  |
| Product weight                            | 25 g   |
| Electrical connection                     | 2-pin<br>KMH plug                                  |
| Type of mounting                          | On sub-base  |
| Pneumatic connection 1                    | Sub-base   |
| Pneumatic connection 2                    | Sub-base   |
| Note on materials                         | RoHS-compliant                                     |
| Seals material                            | HNBR   |
| Housing material                          | PA-reinforced                                      |
| Material of screws                        | Steel  |