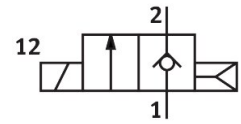


# Air solenoid valve MHJ9-HF

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                                                            |
| Operating pressure                                      | 7.25 psi ... 87 psi                                                          |
| 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 %                                                                  |

| Feature                                   | Value                                              |
|-------------------------------------------|----------------------------------------------------|
| Tolerance for ON switching time           | +/-15 %                                            |
| 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                                              |