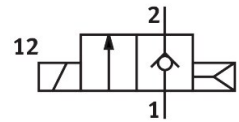


# Air solenoid valve MHJ9-QS-4-MF/LP

Part number: 8084273

**FESTO**



 General operating condition

## Data sheet

| Feature                                                 | Value                                                                                                |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Valve function                                          | 2/2, closed, monostable                                                                              |
| Actuation type                                          | Electrical                                                                                           |
| Width                                                   | 9 mm                                                                                                 |
| Standard nominal flow rate                              | 100 l/min                                                                                            |
| Pneumatic working port                                  | QS-4                                                                                                 |
| Operating voltage                                       | 24V DC                                                                                               |
| Operating pressure                                      | 0.05 MPa ... 0.4 MPa                                                                                 |
| Operating pressure                                      | 0.5 bar ... 4 bar                                                                                    |
| Operating pressure                                      | 7.25 psi ... 58 psi                                                                                  |
| Structural design                                       | Poppet valve without return spring                                                                   |
| Reset method                                            | Pneumatic spring                                                                                     |
| Degree of protection                                    | IP40                                                                                                 |
| Width dimension                                         | 9.5 mm                                                                                               |
| Information on operation                                | 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                                                                                             |
| 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   | 0.5 ms                                                                                               |
| Switching time on at 4 bar and 48 V in new condition    | 0.6 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    | 1.1 ms                                                                                               |
| Switching time off at 4 bar and 12 V in new condition   | 0.4 ms                                                                                               |
| Switching time on at 0.5 bar and 24 V in new condition  | 0.7 ms                                                                                               |
| Switching time off at 0.5 bar and 24 V in new condition | 0.5 ms                                                                                               |
| Tolerance for switching time off                        | +15 %/-25 %                                                                                          |
| Tolerance for ON switching time                         | +/-15 %                                                                                              |
| DC operating voltage range                              | 12 V ... 53 V                                                                                        |
| Duty cycle                                              | 100%                                                                                                 |

| Feature                                  | Value                                              |
|------------------------------------------|----------------------------------------------------|
| Note regarding operating voltage         | Operation only with connecting cable MHJ9-KMH-...  |
| Coil resistance                          | 2.5 Ohm                                            |
| Operating medium                         | Compressed air as per ISO 8573-1:2010 [7:4:4]      |
| Information on operating and pilot media | Operation with oil lubrication 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                           | 30 g                                               |
| Electrical connection                    | 2-pin<br>KMH plug                                  |
| Type of mounting                         | With through-hole                                  |
| Pneumatic connection 1                   | QS-4                                               |
| Pneumatic connection 2                   | QS-4                                               |
| Note on materials                        | RoHS-compliant                                     |
| Seals material                           | HNBR                                               |
| Housing material                         | PA-reinforced                                      |
| Material of screws                       | Steel                                              |