

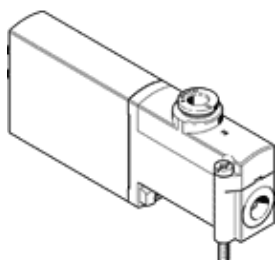
# solenoid valve

## MHP3-MS1H-3/2G-QS-6

Part number: 525143

FESTO

individual valve, fast switching.



## Data sheet

| Feature   | Value   |
|---|---|
| Valve function                                    | 3/2 closed, monostable  |
| Type of actuation                                 | electrical  |
| Width   | 14 mm   |
| Standard nominal flow rate                        | 200 l/min   |
| Operating pressure MPa                            | -0.09 ... 0.8 MPa   |
| Operating pressure                                | -0.9 ... 8 bar  |
| Design structure                                  | Pressure-relieved poppet valve  |
| Type of reset                                     | mechanical spring   |
| Protection class                                  | IP65  |
| Authorisation                                     | RCM Mark<br>c UL us - Recognized (OL)                                       |
| CE mark (see declaration of conformity)           | to EU directive for EMC<br>in accordance with EU RoHS directive             |
| UKCA marking (see declaration of conformity)      | To UK instructions for EMC<br>To UK RoHS instructions                       |
| Nominal size                                      | 3 mm  |
| Grid dimension                                    | 19 mm   |
| Note on grid dimension                            | Minimum distance between the valves is 5 mm                                 |
| Exhaust-air function                              | throttleable  |
| Sealing principle                                 | soft  |
| Assembly position                                 | Any   |
| Manual override                                   | Pushing   |
| Type of piloting                                  | direct  |
| Flow direction                                    | reversible with restrictions  |
| Overlap   | Underlap  |
| Polarity protected                                | Bipolar   |
| Additional functions                              | Spark arresting<br>Reduction of holding current<br>Protective circuit       |
| Operating pressure, reversible                    | -0.09 ... 0.1 MPa<br>-0.9 ... 1 bar<br>-13.05 ... 14.5 psi                  |
| Maximum switching frequency                       | 280 Hz  |
| Switching time off                                | 2.8 ms  |
| Switching time on                                 | 2.3 ms  |
| Tolerance for Switching time OFF                  | +10 %/-50 %   |
| Tolerance for Switching time ON                   | +10%/-30%   |
| Measuring of the switching time at 1 Hz and above | 0.2 ms  |
| Duty cycle  | 100 %   |
| Characteristic coil data                          | 24 V DC: low-current phase 1.6 W, high-current phase 6.5 W                  |
| Permissible voltage fluctuation                   | +/- 10 %  |
| Operating medium                                  | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                    |
| Note on operating and pilot medium                | Lubricated operation possible (subsequently required for further operation) |

| Feature                                    | Value  |
|--|--|
| Vibration resistance                       | Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 |
| Restriction ambient and medium temperature | related to switching frequency   |
| Shock resistance                           | Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27              |
| Corrosion resistance classification CRC    | 2 - Moderate corrosion stress  |
| PWIS conformity                            | VDMA24364-B1/B2-L  |
| Medium temperature                         | -5 ... 40 °C   |
| Ambient temperature                        | -5 ... 40 °C   |
| Product weight                             | 120 g  |
| Electrical connection                      | 2-pin<br>Plug  |
| Mounting type                              | On PR manifold   |
| Pneumatic connection, port 1               | Sub-base   |
| Pneumatic connection, port 2               | QS-6   |
| Pneumatic connection, port 3               | Sub-base   |
| Materials note                             | Conforms to RoHS   |
| Material seals                             | HNBR<br>NBR  |
| Material housing                           | Die-cast zinc, coated  |
| Material screws                            | Galvanised steel   |