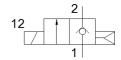
## solenoid valve MHJ10-S-2,5-QS-4-MF Part number: 565515







## **Data sheet**

| Feature  | Value   |
|--|---|
| Valve function   | 2/2 closed, monostable  |
| Type of actuation  | electrical  |
| Width  | 10 mm   |
| Standard nominal flow rate   | 100 l/min   |
| Operating pressure MPa   | 0.05 0.6 MPa  |
| Operating pressure   | 0.5 6 bar   |
| Design structure Design structure  | Poppet valve without spring return                                      |
| Type of reset  | Air spring  |
| Protection class   | IP55  |
| Authorisation  | RCM Mark  |
| CE mark (see declaration of conformity)                                      | to EU directive for EMC   |
| ,  | in accordance with EU RoHS directive                                    |
| UKCA marking (see declaration of conformity)                                 | To UK instructions for EMC  |
| one manning (see declaration of comonning)                                   | To UK RoHS instructions   |
| Grid dimension   | 10.5 mm   |
| Note on operation  | Power supply unit must be able to supply at least 1.7 A without voltage |
| Note on operation  | drop  |
|  | Do not operate without flow   |
|  | For block mounting with flow, max. ambient temperature 45°C.            |
| Sealing principle  | Hard  |
| Assembly position  | Any   |
| Manual override  | *   |
|  | None  |
| Type of piloting Flow direction  | direct  |
|  | non reversible  |
| Polarity protected   | for operating voltage   |
| Additional functions   | Spark arresting   |
|  | Reduction of holding current with energy recovery                       |
|  | Safety shut-off   |
| b value  | 0.38  |
| C value  | 0.4 l/sbar  |
| Maximum switching frequency  | 1,000 Hz  |
| Switching time on at 0.4 MPa (4 bar, 58 psi) and 24 V in new condition       | 0.8 ms  |
| Switching time off at 0.4 MPa (4 bar, 58 psi) and 24 V in new condition      | 0.4 ms  |
|  | 0.8 ms  |
| Switching time off at 0.05 MPa (0.5 bar, 7.25 psi) and 24 V in new condition |   |
| Switching time on at 0.6 MPa (6 bar, 87 psi) and 24 V in new condition       | 0.9 ms  |
| Switching time off at 0.6 MPa (6 bar, 87 psi) and 24 V in new condition      | 0.4 ms  |
| Tolerance for Switching time OFF   | +15 %/-25 %   |
| Tolerance for Switching time ON  | +/-15 %   |
| Operating voltage range DC   | 21.6 26.4 V   |
| Input resistance   | 34 kOhm   |
| Duty cycle   | 100 %   |
| Characteristic coil data   | 24 V DC: low-current phase 2 W, high-current phase 7 W                  |
| Trigger signal range DC  | 3 30 V  |
| Note on feeder current   | Linear rise   |
|  | 0.09 - 0.44 mA with a trigger signal of 3 - 15 V                        |



| Feature                                       | Value  |
|---|--|
|   | 0.44-15.44 mA with a trigger signal of 15-30 V           |
| 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 not possible                        |
| Restriction ambient and medium temperature    | related to switching frequency                           |
| Corrosion resistance classification CRC       | 2 - Moderate corrosion stress                            |
| PWIS conformity                               | VDMA24364-B2-L   |
| Storage temperature                           | -20 50 °C  |
| Max. permissible solenoid surface temperature | 120 °C   |
| Medium temperature                            | -5 60 °C   |
| Ambient temperature                           | -5 60 °C   |
| Product weight                                | 85 g   |
| Electrical connection                         | 3-core   |
|   | Cable  |
| Cable length                                  | 2.5 m  |
| Mounting type                                 | Line installation  |
|   | with through hole  |
|   | Optional   |
| Pneumatic connection, port 1                  | QS-4   |
| Pneumatic connection, port 2                  | QS-4   |
| Materials note                                | Conforms to RoHS   |
| Material seals                                | HNBR   |
| Material housing                              | PA-reinforced  |
|   | PPS-reinforced   |
| Material cable sheath                         | PUR  |
| Material screws                               | Steel  |