

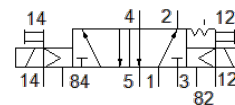
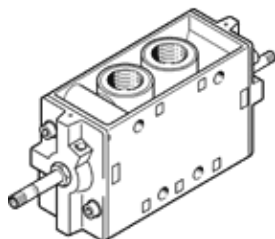
# solenoid valve

## JMFH-5-1/2-S-EX

Part number: 535917

FESTO

With manual overrides, without solenoid coils or sockets. Solenoid coils and sockets should be ordered separately.



## Data sheet

| Feature   | Value   |
|---|---|
| Valve function                                    | 5/2 bistable  |
| Type of actuation                                 | electrical  |
| Width   | 52 mm   |
| Standard nominal flow rate                        | 4,500 l/min   |
| Operating pressure MPa                            | 0 ... 0.8 MPa   |
| Operating pressure                                | 0 ... 8 bar   |
| Design structure                                  | Poppet seat   |
| CE mark (see declaration of conformity)           | to EU directive explosion protection (ATEX)                                 |
| Explosion protection certification outside the EU | EPL Db (GB)<br>EPL Gb (GB)  |
| UKCA marking (see declaration of conformity)      | To UK EX instructions   |
| ATEX category Gas                                 | II 2G   |
| ATEX category Dust                                | II 2D   |
| Explosion ignition protection type Gas            | Ex h IIC T4 Gb  |
| Explosion ignition protection type Dust           | Ex h IIIC T130°C Db   |
| Explosion-proof ambient temperature               | -5 °C ≤ Ta ≤ +40 °C   |
| Protection class                                  | IP65  |
| Nominal size                                      | 14 mm   |
| Grid dimension                                    | 69 mm   |
| Exhaust-air function                              | throttleable  |
| Sealing principle                                 | soft  |
| Assembly position                                 | Any   |
| Manual override                                   | detenting   |
| Type of piloting                                  | Piloted   |
| Pilot air supply                                  | external  |
| Flow direction                                    | non reversible  |
| Overlap   | Underlap  |
| Pilot pressure MPa                                | 0.1 ... 0.8 MPa   |
| Pilot pressure                                    | 1 ... 8 bar   |
| b value   | 0.3   |
| C value   | 19.5 l/sbar   |
| Max. switching frequency                          | 25 Hz   |
| Switching time reversal                           | 20 ms   |
| Max. positive test pulse with logic 0             | 2,200 μs  |
| Max. negative test pulse with logic 1             | 3,700 μs  |
| Characteristic coil data                          | See solenoid coil, to be ordered separately                                 |
| 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) |
| Corrosion resistance classification CRC           | 1 - Low corrosion stress  |
| PWIS conformity                                   | VDMA24364-B1/B2-L   |
| Storage temperature                               | -20 ... 60 °C   |
| Medium temperature                                | -5 ... 40 °C  |

| <b>Feature</b>                | <b>Value</b>   |
|-------------------------------|--|
| Pilot medium                  | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Ambient temperature           | -5 ... 40 °C   |
| Product weight                | 1,210 g  |
| Electrical connection         | Via F coil, must be ordered separately                   |
| Mounting type                 | on manifold rail<br>with through hole<br>Optional        |
| Auxiliary pilot air port 12   | G1/8   |
| Auxiliary pilot air port 14   | G1/8   |
| Scavenging orifice connection | M5   |
| Pilot exhaust port 82         | M5   |
| Pilot exhaust port 84         | M5   |
| Pilot air port 12             | G1/8   |
| Pneumatic connection, port 1  | G1/2   |
| Pneumatic connection, port 2  | G1/2   |
| Pneumatic connection, port 3  | G1/2   |
| Pneumatic connection, port 4  | G1/2   |
| Pneumatic connection, port 5  | G1/2   |
| Materials note                | Conforms to RoHS   |
| Material seals                | NBR<br>TPE-U(PU)   |
| Material housing              | Aluminium die cast                                       |