

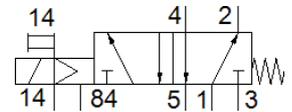
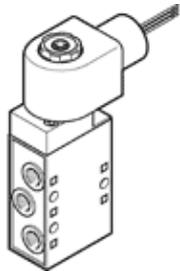
# solenoid valve

## MFH-5-1/8-S-EX

Part number: 535909

FESTO

With manual override, without solenoid coil or socket. Solenoid coil and socket should be ordered separately.



### Data sheet

| Feature                                 | Value   |
|---|---|
| Valve function                          | 5/2 monostable  |
| Type of actuation                       | electrical  |
| Width                                   | 26 mm   |
| Standard nominal flow rate              | 500 l/min   |
| Operating pressure                      | 0 ... 10 bar  |
| Design structure                        | Poppet seat   |
| Type of reset                           | mechanical spring   |
| Authorisation                           | c UL us - Recognized (OL)   |
| CE mark (see declaration of conformity) | to EU directive explosion protection (ATEX)                                 |
| 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                            | 5 mm  |
| Grid dimension                          | 27 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                          | 1.2 ... 8 bar   |
| Switching time off                      | 36 ms   |
| Switching time on                       | 8 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  |
| Storage temperature                     | -20 ... 60 °C   |
| Medium temperature                      | -5 ... 40 °C  |
| Pilot medium                            | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                    |
| Ambient temperature                     | -5 ... 40 °C  |
| Product weight                          | 270 g   |
| Mounting type                           | Optional<br>on manifold rail<br>with through hole                           |

| Feature                       | Value              |
|-------------------------------|--------------------|
| Scavenging orifice connection | M5                 |
| Pilot exhaust port 84         | M5                 |
| Pilot air port 14             | M5                 |
| Pneumatic connection, port 1  | G1/8               |
| Pneumatic connection, port 2  | G1/8               |
| Pneumatic connection, port 3  | G1/8               |
| Pneumatic connection, port 4  | G1/8               |
| Pneumatic connection, port 5  | G1/8               |
| Materials note                | Conforms to RoHS   |
| Material seals                | NBR<br>TPE-U(PU)   |
| Material housing              | Aluminium die cast |