

# Solenoid valve MFH-5-1/4-L-S-B-EX

Part number: 535928

FESTO



[PDF General operating condition](#)

## Data sheet

| Feature   | Value                                       |
|---|---|
| Valve function  | 5/2-way, single solenoid                    |
| Type of actuation                                     | Electrical                                  |
| Construction width                                    | 32 mm                                       |
| Standard nominal flow rate (standardised to DIN 1343) | 1600 l/min                                  |
| pneumatic working port                                | G1/4  |
| Operating pressure                                    | -0.09 MPa ... 1 MPa                         |
| Operating pressure                                    | -0.9 bar ... 10 bar                         |
| Design  | Piston gate valve                           |
| Type of reset   | Pneumatic spring                            |
| CE mark (see declaration of conformity)               | To EU Explosion Protection Directive (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 for gas            | Ex h IIC T4 Gb                              |
| Explosion ignition protection type for dust           | Ex h IIIC T130°C Db                         |
| Explosion ambient temperature                         | -5°C ≤ Ta ≤ +40°C                           |
| Degree of protection                                  | IP65  |
| Nominal size  | 10 mm                                       |
| Grid dimension  | 33 mm                                       |
| Exhaust-air function                                  | Can be throttled                            |
| Sealing principle                                     | Soft  |
| Mounting position                                     | Any   |
| Manual override                                       | Non-detenting                               |
| Type of piloting                                      | Piloted                                     |
| Pilot air supply                                      | External                                    |
| Flow direction  | Reversible                                  |
| Symbol  | 00991026                                    |
| lap   | Overlap                                     |
| Pilot pressure  | 0.3 MPa ... 1 MPa                           |
| Pilot pressure  | 3 bar ... 10 bar                            |
| b value   | 0.38  |
| C value   | 6.35 l/sbar                                 |
| Max. switching frequency                              | 3 Hz  |
| Switching time off                                    | 42 ms                                       |

| Feature                                | Value   |
|--|---|
| Switching time on                      | 23 ms   |
| Max. positive test pulse with 0 signal | 2200 µs   |
| Max. negative test pulse with 1 signal | 3700 µs   |
| Explosion protection                   | Zone 1 (ATEX)<br>Zone 1 (UKEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>Zone 21 (UKEX)<br>Zone 22 (ATEX) |
| Operating medium                       | Compressed air to ISO 8573-1:2010 [7:4:4]   |
| Note on operating and pilot medium     | Lubricated operation possible (in which case lubricated operation will always be required)            |
| Corrosion resistance class CRC         | 1 - Low corrosion stress  |
| LABS (PWIS) conformity                 | VDMA24364-B1/B2-L   |
| Storage temperature                    | -40 °C ... 60 °C  |
| Media temperature                      | -10 °C ... 60 °C  |
| Pilot medium                           | Compressed air to ISO 8573-1:2010 [7:4:4]   |
| Ambient temperature                    | -5 °C ... 40 °C   |
| Product weight                         | 380 g   |
| Electrical connection                  | Via F coil, to be ordered separately  |
| Type of mounting                       | With through-hole   |
| Pilot exhaust port 84                  | M5  |
| Pilot air port 12                      | G1/8  |
| Pilot air port 14                      | G1/8  |
| Pneumatic connection, port 1           | G1/4  |
| Pneumatic connection, port 2           | G1/4  |
| Pneumatic connection, port 3           | G1/4  |
| Pneumatic connection, port 4           | G1/4  |
| Pneumatic connection, port 5           | G1/4  |
| Note on materials                      | RoHS compliant  |
| Material seals                         | NBR   |
| Material housing                       | Die-cast aluminium  |