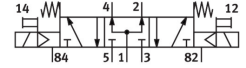


# Solenoid valve MFH-5/3B-1/8-B-EX

Part number: 535948

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                               | Value                                       |
|-------------------------------------------------------|---------------------------------------------|
| Valve function                                        | 5/3-way, pressurised                        |
| Type of actuation                                     | Electric                                    |
| Construction width                                    | 26 mm                                       |
| Standard nominal flow rate (standardised to DIN 1343) | 1000 l/min                                  |
| pneumatic working port                                | G1/8                                        |
| Operating pressure                                    | 0.3 MPa ... 1 MPa                           |
| Operating pressure                                    | 3 bar ... 10 bar                            |
| Design                                                | Piston gate valve                           |
| Type of reset                                         | Mechanical 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                                          | 8 mm                                        |
| Grid dimension                                        | 27 mm                                       |
| Sealing principle                                     | Soft                                        |
| Mounting position                                     | optional                                    |
| Manual override                                       | Non-detenting                               |
| Type of piloting                                      | Pilot actuated                              |
| Pilot air supply                                      | Internal                                    |
| Flow direction                                        | Non-reversible                              |
| Symbol                                                | 00991034                                    |
| lap                                                   | Overlap                                     |
| Max. switching frequency                              | 3 Hz                                        |
| Switching time off                                    | 21 ms                                       |
| Switching time on                                     | 23 ms                                       |
| Switching time reversal                               | 16 ms                                       |
| Max. positive test pulse with 0 signal                | 2200 µs                                     |
| Max. negative test pulse with 1 signal                | 3700 µs                                     |

| Feature                            | Value                                                                                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------------|
| 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                  | -5 °C ... 40 °C                                                                                       |
| Ambient temperature                | -5 °C ... 40 °C                                                                                       |
| Product weight                     | 440 g                                                                                                 |
| Electrical connection              | Via F coil, to be ordered separately                                                                  |
| Type of mounting                   | With through-hole                                                                                     |
| Pilot exhaust port 82              | M5                                                                                                    |
| Pilot exhaust port 84              | 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                                                                                                  |
| Note on materials                  | RoHS-compliant                                                                                        |
| Material seals                     | NBR                                                                                                   |
| Material housing                   | Die-cast aluminium                                                                                    |