

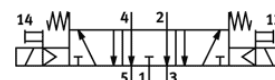
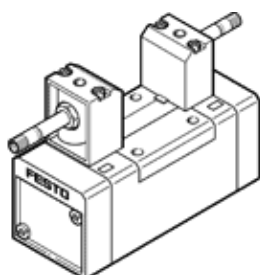
# solenoid valve

## MFH-5/3E-D-1-C-EX

Part number: 535975

FESTO

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



## Data sheet

| Feature   | Value  |
|---|--|
| Valve function                                    | 5/3 exhausted  |
| Type of actuation                                 | electrical   |
| Width   | 42 mm  |
| Standard nominal flow rate                        | 1,200 l/min  |
| Operating pressure                                | 3 ... 10 bar   |
| Design structure                                  | Piston slide   |
| Type of reset                                     | mechanical spring  |
| CE mark (see declaration of conformity)           | to EU directive explosion protection (ATEX)  |
| 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 T105°C Db  |
| Explosion-proof ambient temperature               | -5 °C ≤ Ta ≤ +40 °C  |
| Explosion protection certification outside the EU | EPL Db (GB)<br>EPL Gb (GB)   |
| Protection class                                  | IP65   |
| Nominal size                                      | 8 mm   |
| Grid dimension                                    | 43 mm  |
| Exhaust-air function                              | throttleable   |
| Sealing principle                                 | soft   |
| Assembly position                                 | Any  |
| Conforms to standard                              | ISO 5599-1   |
| Manual override                                   | with accessories, detenting<br>Pushing   |
| ISO code  | 157  |
| Type of piloting                                  | Piloted  |
| Pilot air supply                                  | Internal   |
| Flow direction                                    | non reversible   |
| Overlap   | Positive overlap   |
| Switching time off                                | 36 ms  |
| Switching time on                                 | 18 ms  |
| Max. positive test pulse with logic 0             | 2,200 μs   |
| Max. negative test pulse with logic 1             | 3,700 μs   |
| 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)          |
| Vibration resistance                              | Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 |
| Shock resistance                                  | Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27    |
| PWIS conformity                                   | VDMA24364-B1/B2-L  |
| Medium temperature                                | -5 ... 40 °C   |

| Feature                      | Value  |
|------------------------------|--|
| Sound pressure level         | 85 dB(A)   |
| Pilot medium                 | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Ambient temperature          | -5 ... 40 °C   |
| Product weight               | 520 g  |
| Electrical connection        | Via F coil, must be ordered separately                   |
| Mounting type                | On sub-base<br>with through hole                         |
| Pilot air port 12            | Connection plate size 1 as per ISO 5599-1                |
| Pilot air port 14            | Connection plate size 1 as per ISO 5599-1                |
| Pneumatic connection, port 1 | Connection plate size 1 as per ISO 5599-1                |
| Pneumatic connection, port 2 | Connection plate size 1 as per ISO 5599-1                |
| Pneumatic connection, port 3 | Connection plate size 1 as per ISO 5599-1                |
| Pneumatic connection, port 4 | Connection plate size 1 as per ISO 5599-1                |
| Pneumatic connection, port 5 | Connection plate size 1 as per ISO 5599-1                |
| Materials note               | Conforms to RoHS   |
| Material seals               | HNBR<br>NBR  |
| Material housing             | Aluminium die cast                                       |