

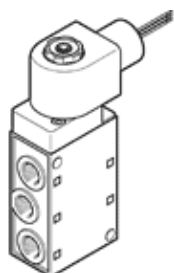
Solenoid valve

MFH-5-1/4-S-EX

Part number: 535910

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 | 30.5 mm |
| Standard nominal flow rate | 1,000 l/min |
| Operating pressure MPa | 0 ... 0.8 MPa |
| Working pressure | 0 ... 8 bar |
| Design structure | Poppet seat |
| Type of reset | mechanical spring |
| CE symbol (see declaration of conformity) | according to EU-Ex protection guideline (ATEX) |
| Explosion protection certification outside the EU | EPL Db (GB) 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 | 7 mm |
| Grid dimension | 32 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 |
| Lap | Underlap |
| Pilot pressure MPa | 0.15 ... 0.8 MPa |
| Pilot pressure | 1.5 ... 8 bar |
| b value | 0.19 |
| C value | 4.49 l/sbar |
| Switching time off | 29 ms |
| Switching time on | 9 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 |

| Feature | Value |
|-------------------------------|--|
| 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 | 290 g |
| Electrical connection | Via F coil, must be ordered separately |
| Mounting type | on manifold rail with through hole Optional |
| Scavenging orifice connection | M5 |
| Pilot exhaust port 84 | M5 |
| Pilot air port 14 | M5 |
| 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 |
| Materials note | Conforms to RoHS |
| Material seals | NBR TPE-U(PU) |
| Material housing | Aluminum die cast |