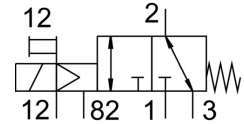


# Air solenoid valve MFH-3-1/8-S-EX

Part number: 535900

FESTO



## Data sheet

| Feature                                    | Value   |
|--|---|
| Valve function                             | 3/2, closed, monostable                         |
| Actuation type                             | Electrical                                      |
| Width                                      | 26 mm   |
| Standard nominal flow rate                 | 500 l/min                                       |
| Pneumatic working port                     | G1/8  |
| Operating voltage                          | Via solenoid coil, to be ordered separately     |
| Operating pressure                         | -0.095 MPa ... 1 MPa                            |
| Operating pressure                         | -0.95 bar ... 10 bar                            |
| Structural design                          | Plate seat                                      |
| Reset method                               | Mechanical spring                               |
| CE marking (see declaration of conformity) | as per EU explosion protection directive (ATEX) |
| ATEX category gas                          | II 2G   |
| ATEX category for dust                     | II 2D   |
| Type of ignition protection for gas        | Ex h IIC T4 Gb                                  |
| Type of (ignition) protection for dust     | Ex h IIIC T130°C Db                             |
| Explosive ambient temperature              | -5°C ≤ Ta ≤ +40°C                               |
| Degree of protection                       | IP65  |
| Nominal width                              | 5 mm  |
| Width dimension                            | 27 mm   |
| Type code                                  | MFH   |
| Exhaust air function                       | With flow control option                        |
| Sealing principle                          | Soft  |
| Mounting position                          | Any   |
| Manual override                            | Detenting                                       |
| Type of control                            | Pilot-controlled                                |
| Pilot air supply port                      | External  |
| Flow direction                             | Reversible                                      |
| Symbol                                     | 00992879  |
| Lap  | Underlap  |
| Pilot pressure MPa                         | 0.1 MPa ... 0.8 MPa                             |
| Pilot pressure                             | 1 bar ... 8 bar                                 |
| Switching time off                         | 33 ms   |
| On switching time                          | 9 ms  |
| Max. positive test pulse with 0 signal     | 2200 μs   |
| Max. negative test pulse on 1 signal       | 3700 μs   |
| Coil characteristics                       | See solenoid coil, to be ordered separately     |

| Feature                                  | Value  |
|--|--|
| Explosion prevention and protection      | Zone 1 (ATEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>Zone 22 (ATEX) |
| Operating medium                         | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Information on operating and pilot media | Operation with oil lubrication possible (required for further use) |
| Corrosion resistance class (CRC)         | 1 - Low corrosion stress   |
| Storage temperature                      | -20 °C ... 60 °C   |
| Temperature of medium                    | -5 °C ... 40 °C  |
| Pilot medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4]                      |
| Ambient temperature                      | -5 °C ... 40 °C  |
| Product weight                           | 240 g  |
| Electrical connection                    | Via F coil, to be ordered separately                               |
| Type of mounting                         | Optionally:<br>On terminal strip<br>With through-hole              |
| Venting hole connection                  | M5   |
| Pilot exhaust air port 82                | M5   |
| Pilot air port 12                        | M5   |
| Pneumatic connection 1                   | G1/8   |
| Pneumatic connection 2                   | G1/8   |
| Pneumatic connection 3                   | G1/8   |
| Note on materials                        | RoHS-compliant   |
| Seals material                           | NBR  |
| Housing material                         | Die-cast aluminum  |