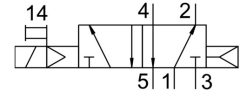


# Air solenoid valve MFH-5/2-D-1-C-EX

Part number: 535954

FESTO



## Data sheet

| Feature                                    | Value   |
|--|---|
| Valve function                             | 5/2, monostable                                 |
| Actuation type                             | Electrical                                      |
| Width                                      | 42 mm   |
| Standard nominal flow rate                 | 1200 l/min                                      |
| Pneumatic working port                     | Sub-base, size 1 as per ISO 5599-1<br>G1/4      |
| Operating voltage                          | Via solenoid coil, to be ordered separately     |
| Operating pressure                         | 2 bar ... 10 bar                                |
| Structural design                          | Piston gate valve                               |
| Reset method                               | Pneumatic 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 T105°C Db                             |
| Explosive ambient temperature              | -5°C ≤ Ta ≤ +40°C                               |
| Degree of protection                       | IP65  |
| Nominal width                              | 8 mm  |
| Width dimension                            | 43 mm   |
| Type code                                  | MFH   |
| Exhaust air function                       | With flow control option                        |
| Sealing principle                          | Soft  |
| Mounting position                          | Any   |
| Conforms to standard                       | ISO 5599-1                                      |
| Manual override                            | Detenting via accessory<br>Non-detenting        |
| ISO code                                   | 151   |
| Type of control                            | Pilot-controlled                                |
| Pilot air supply port                      | Internal  |
| Flow direction                             | Non-reversible                                  |
| Symbol                                     | 00991049  |
| Lap  | Overlap   |
| Switching time off                         | 35 ms   |
| On switching time                          | 23 ms   |
| Max. positive test pulse with 0 signal     | 2200 μs   |
| Max. negative test pulse on 1 signal       | 3700 μs   |

| 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)                   |
| 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 as per FN 942017-5 and EN 60068-2-27                |
| Temperature of medium                    | -5 °C ... 40 °C  |
| Noise level                              | 85 dB(A)   |
| Pilot medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4]  |
| Ambient temperature                      | -5 °C ... 40 °C  |
| Product weight                           | 390 g  |
| Electrical connection                    | Via F coil, to be ordered separately   |
| Type of mounting                         | On sub-base<br>With through-hole   |
| Pilot air port 12                        | Sub-base, size 1 as per ISO 5599-1   |
| Pilot air port 14                        | Sub-base, size 1 as per ISO 5599-1   |
| Pneumatic connection 1                   | Sub-base, size 1 as per ISO 5599-1   |
| Pneumatic connection 2                   | Sub-base, size 1 as per ISO 5599-1   |
| Pneumatic connection 3                   | Sub-base, size 1 as per ISO 5599-1   |
| Pneumatic connection 4                   | Sub-base, size 1 as per ISO 5599-1   |
| Pneumatic connection 5                   | Sub-base, size 1 as per ISO 5599-1   |
| Note on materials                        | RoHS-compliant   |
| Seals material                           | HNBR<br>NBR  |
| Housing material                         | Die-cast aluminum  |