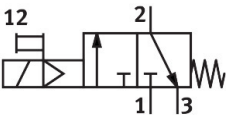
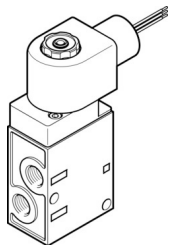


# Air solenoid valve

## MFH-3-1/8-120-NPT-EX

Part number: 541652

FESTO



### Data sheet

| Feature                                           | Value                                                                                                                                                                            |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Valve function                                    | 3/2, closed, monostable                                                                                                                                                          |
| Actuation type                                    | Electrical                                                                                                                                                                       |
| Width                                             | 70.5 mm                                                                                                                                                                          |
| Standard nominal flow rate                        | 500 l/min                                                                                                                                                                        |
| Pneumatic working port                            | 1/8 NPT                                                                                                                                                                          |
| Operating voltage                                 | 120V AC                                                                                                                                                                          |
| Operating pressure                                | 0.15 MPa...0.8 MPa<br>1.5 bar...8 bar                                                                                                                                            |
| Reset method                                      | Mechanical spring                                                                                                                                                                |
| Explosion protection certification outside the EU | Class I, Div. 1 (US)<br>Class I, Div. 2 (US)<br>Class II, Div. 1 (US)<br>Class II, Div. 2 (US)<br>Class III, Div. 1 (US)<br>Class III, Div. 2 (US)<br>EPL Gb (US)<br>EPL Gc (US) |
| Certificate issuing authority                     | FM 3026030                                                                                                                                                                       |
| Degree of protection                              | IP65                                                                                                                                                                             |
| Nominal width                                     | 5 mm                                                                                                                                                                             |
| Exhaust air function                              | With flow control option                                                                                                                                                         |
| Sealing principle                                 | Soft                                                                                                                                                                             |
| Mounting position                                 | Any                                                                                                                                                                              |
| Manual override                                   | Detenting                                                                                                                                                                        |
| Type of control                                   | Pilot-controlled                                                                                                                                                                 |
| Flow direction                                    | Non-reversible                                                                                                                                                                   |
| Lap                                               | Underlap                                                                                                                                                                         |
| Switching time off                                | 29 ms                                                                                                                                                                            |
| On switching time                                 | 11 ms                                                                                                                                                                            |
| Coil characteristics                              | 120 V AC: 60 Hz, initial power 11.5 VA, holding power 6.5 VA                                                                                                                     |

| Feature                                  | Value                                                                                                                                                                            |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Explosion prevention and protection      | Class I, Div. 1 (US)<br>Class I, Div. 2 (US)<br>Class II, Div. 1 (US)<br>Class II, Div. 2 (US)<br>Class III, Div. 1 (US)<br>Class III, Div. 2 (US)<br>Zone 1 (US)<br>Zone 2 (US) |
| 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                                                                                                                                                         |
| Temperature of medium                    | -5 °C...40 °C                                                                                                                                                                    |
| Ambient temperature                      | -5 °C...40 °C                                                                                                                                                                    |
| Product weight                           | 355 g                                                                                                                                                                            |
| Type of mounting                         | With through-hole                                                                                                                                                                |
| Venting hole connection                  | Internal                                                                                                                                                                         |
| Pilot exhaust air port 82                | M5                                                                                                                                                                               |
| Pneumatic connection 1                   | 1/8 NPT                                                                                                                                                                          |
| Pneumatic connection 2                   | 1/8 NPT                                                                                                                                                                          |
| Pneumatic connection 3                   | 1/8 NPT                                                                                                                                                                          |
| Seals material                           | NBR<br>PU                                                                                                                                                                        |
| Housing material                         | Die-cast aluminum<br>Anodized                                                                                                                                                    |