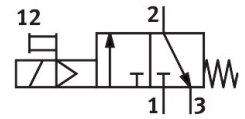
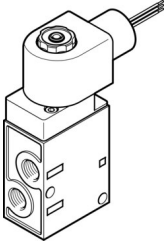


# Air solenoid valve

## MFH-3-1/4-24-NPT-EX

Part number: 541658

FESTO



## Data sheet

| Feature                                           | Value                                                                                                                                                                            |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Valve function                                    | 3/2-way, closed, monostable                                                                                                                                                      |
| Actuation type                                    | Electrical                                                                                                                                                                       |
| Width                                             | 73 mm                                                                                                                                                                            |
| Normal nominal flow rate (normalized to DIN 1343) | 800 l/min                                                                                                                                                                        |
| Pneumatic working port                            | 1/4 NPT                                                                                                                                                                          |
| Operating voltage                                 | 24V DC                                                                                                                                                                           |
| 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                              | Adjustable                                                                                                                                                                       |
| Sealing principle                                 | Soft                                                                                                                                                                             |
| Mounting position                                 | Any                                                                                                                                                                              |
| Manual override                                   | Detenting                                                                                                                                                                        |
| Type of control                                   | Piloted                                                                                                                                                                          |
| Flow direction                                    | Non-reversible                                                                                                                                                                   |
| Lap                                               | Negative overlap                                                                                                                                                                 |
| Switching time off                                | 29 ms                                                                                                                                                                            |
| On switching time                                 | 12 ms                                                                                                                                                                            |
| Coil characteristics                              | 24 V DC: 4.6 W                                                                                                                                                                   |
| 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)                                                         |

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
|                                          | 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                           | 425 g                                                              |
| Type of mounting                         | With through-hole                                                  |
| Venting hole connection                  | Internal                                                           |
| Pilot exhaust air port 82                | M5                                                                 |
| Pneumatic connection 1                   | 1/4 NPT                                                            |
| Pneumatic connection 2                   | 1/4 NPT                                                            |
| Pneumatic connection 3                   | 1/4 NPT                                                            |
| Seals material                           | NBR<br>PU                                                          |
| Housing material                         | Die-cast aluminum<br>Anodized                                      |