

# Air solenoid valve MFH-5-1/4-NPT

Part number: 9976

FESTO



[General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function                                    | 5/2-way, monostable  |
| Actuation type                                    | Electrical   |
| Width   | 30.5 mm  |
| Normal nominal flow rate (normalized to DIN 1343) | 1000 l/min   |
| Pneumatic working port                            | 1/4 NPT  |
| Operating voltage                                 | Via solenoid coil, to be ordered separately                        |
| Operating pressure                                | 0.25 MPa ... 0.8 MPa   |
| Operating pressure                                | 2.5 bar ... 8 bar  |
| Structural design                                 | Plate seat   |
| Reset method                                      | Mechanical spring  |
| Certification                                     | c UL us - recognized (OL)  |
| Degree of protection                              | IP65   |
| Nominal width                                     | 7 mm   |
| Width dimension                                   | 32 mm  |
| Exhaust air function                              | Adjustable   |
| Sealing principle                                 | Soft   |
| Mounting position                                 | Any  |
| Manual override                                   | Detenting  |
| Type of control                                   | Piloted  |
| Flow direction                                    | Non-reversible   |
| Symbol  | 00991035   |
| Lap   | Negative overlap   |
| b-value   | 0.19   |
| C value   | 4.49 l/sbar  |
| Switching time off                                | 29 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                        |
| 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   |
| LABS (PWIS) conformity                            | VDMA24364-B2-L   |
| Storage temperature                               | -20 °C ... 60 °C   |
| Temperature of medium                             | -10 °C ... 60 °C   |
| Ambient temperature                               | -5 °C ... 40 °C  |

| <b>Feature</b>            | <b>Value</b>                           |
|---------------------------|--|
| Product weight            | 290 g                                  |
| Electrical connection     | Via F coil, to be ordered separately   |
| Type of mounting          | On terminal strip<br>With through-hole |
| Pilot exhaust air port 84 | M5                                     |
| Pneumatic connection 1    | 1/4 NPT                                |
| Pneumatic connection 2    | 1/4 NPT                                |
| Pneumatic connection 3    | 1/4 NPT                                |
| Pneumatic connection 4    | 1/4 NPT                                |
| Pneumatic connection 5    | 1/4 NPT                                |
| Note on materials         | RoHS compliant                         |
| Seals material            | NBR                                    |
| Housing material          | Die-cast aluminum                      |