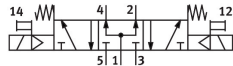


# Air solenoid valve

## MN1H-5/3B-D-2-C

Part number: 159697

FESTO



## Data sheet

| Feature                                | Value  |
|--|--|
| Valve function                         | 5/3, pressurized                                 |
| Actuation type                         | Electrical                                       |
| Width                                  | 54 mm  |
| Standard nominal flow rate             | 2300 l/min                                       |
| Pneumatic working port                 | Sub-base, size 2 according to ISO 5599-1<br>G3/8 |
| Operating voltage                      | Via solenoid coil, to be ordered separately      |
| Operating pressure                     | 0.3 MPa...1 MPa<br>3 bar...10 bar                |
| Structural design                      | Piston gate valve                                |
| Reset method                           | Mechanical spring                                |
| Certification                          | c UL us - Recognized (OL)                        |
| Maritime classification                | See certificate                                  |
| Certificate issuing authority          | DNV-TAA000032X                                   |
| Degree of protection                   | IP65   |
| Nominal width                          | 11.5 mm  |
| Width dimension                        | 56 mm  |
| 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                               | 258  |
| Type of control                        | Pilot-controlled                                 |
| Pilot air supply port                  | Internal   |
| Flow direction                         | Non-reversible                                   |
| Lap                                    | Overlap  |
| Switching time off                     | 78 ms  |
| On switching time                      | 35 ms  |
| Max. positive test pulse with 0 signal | 3700 µs  |
| Max. negative test pulse on 1 signal   | 4600 µs  |

| Feature                                  | Value  |
|--|--|
| 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                |
| LABS (PWIS) conformity                   | VDMA24364-B1/B2-L  |
| Temperature of medium                    | -5 °C...50 °C  |
| Noise level                              | 85 dB(A)   |
| Ambient temperature                      | -5 °C...50 °C  |
| Product weight                           | 940 g  |
| Electrical connection                    | Via N1 coil, to be ordered separately  |
| Type of mounting                         | On sub-base<br>With through-hole and screw   |
| Pilot exhaust air port 82                | M5   |
| Pilot exhaust air port 84                | M5   |
| Pneumatic connection 1                   | Sub-base, size 2 as per ISO 5599-1   |
| Pneumatic connection 2                   | Sub-base, size 2 as per ISO 5599-1   |
| Pneumatic connection 3                   | Sub-base, size 2 as per ISO 5599-1   |
| Pneumatic connection 4                   | Sub-base, size 2 as per ISO 5599-1   |
| Pneumatic connection 5                   | Sub-base, size 2 as per ISO 5599-1   |
| Note on materials                        | RoHS-compliant   |
| Seals material                           | HNBR<br>NBR  |
| Housing material                         | Die-cast aluminum  |