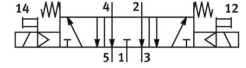


# Air solenoid valve MN1H-5/3E-D-2-C

Part number: 159695

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                  | Value                                                              |
|------------------------------------------|--------------------------------------------------------------------|
| Valve function                           | 5/3, exhausted                                                     |
| 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                                                  |
| Operating pressure                       | 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<br>UL MH19482                                       |
| 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                                 | 257                                                                |
| Type of control                          | Pilot-controlled                                                   |
| Pilot air supply port                    | Internal                                                           |
| Flow direction                           | Non-reversible                                                     |
| Symbol                                   | 00991082                                                           |
| Lap                                      | Overlap                                                            |
| Switching time off                       | 84 ms                                                              |
| On switching time                        | 36 ms                                                              |
| Max. positive test pulse with 0 signal   | 3700 µs                                                            |
| Max. negative test pulse on 1 signal     | 4600 µs                                                            |
| 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) |

| Feature                   | Value                                                                                |
|---------------------------|--------------------------------------------------------------------------------------|
| 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          | 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                                                                    |