

# Air solenoid valve MN1H-5/2-D-1-FR-S-C

Part number: 159716

FESTO



[General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function                                    | 5/2, monostable                                  |
| Actuation type                                    | Electrical                                       |
| Width   | 42 mm  |
| Normal nominal flow rate (normalized to DIN 1343) | 1200 l/min                                       |
| Pneumatic working port                            | Sub-base, size 1 according to ISO 5599-1<br>G1/4 |
| Operating voltage                                 | Via solenoid coil, to be ordered separately      |
| Operating pressure                                | -0.09 MPa ... 1.6 MPa                            |
| Operating pressure                                | -0.9 bar ... 16 bar                              |
| Structural design                                 | Piston gate valve                                |
| Reset method                                      | Mechanical spring                                |
| Maritime classification                           | See certificate                                  |
| Certificate issuing authority                     | DNV-TAA000032X                                   |
| Degree of protection                              | IP65   |
| Nominal width                                     | 8 mm   |
| Width dimension                                   | 43 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  | 169  |
| Type of control                                   | Pilot-controlled                                 |
| Pilot air supply port                             | External   |
| Flow direction                                    | Reversible                                       |
| Symbol  | 00991190   |
| Lap   | Overlap  |
| Pilot pressure MPa                                | 0.3 MPa ... 1 MPa                                |
| Pilot pressure                                    | 3 bar ... 10 bar                                 |
| Suitability for vacuum                            | yes  |
| Switching time off                                | 39 ms  |
| On switching time                                 | 17 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]    |

| Feature                                  | Value  |
|--|--|
| 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)   |
| Pilot medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4]  |
| Ambient temperature                      | -5 °C ... 50 °C  |
| Product weight                           | 450 g  |
| Electrical connection                    | Via N1 coil, to be ordered separately  |
| Type of mounting                         | On sub-base<br>With through-hole   |
| Pilot exhaust air port 84                | M5   |
| Pilot air port 12                        | Sub-base, size 1 as per ISO 5599-1   |
| Pilot air port 14                        | Sub-base, size 1 as per ISO 5599-1   |
| Pneumatic connection 1                   | Sub-base, size 1 as per ISO 5599-1   |
| Pneumatic connection 2                   | Sub-base, size 1 as per ISO 5599-1   |
| Pneumatic connection 3                   | Sub-base, size 1 as per ISO 5599-1   |
| Pneumatic connection 4                   | Sub-base, size 1 as per ISO 5599-1   |
| Pneumatic connection 5                   | Sub-base, size 1 as per ISO 5599-1   |
| Note on materials                        | RoHS-compliant   |
| Seals material                           | HNBR<br>NBR  |
| Housing material                         | Die-cast aluminum  |