

Air solenoid valve MN1H-5/3B-D-1-C

Part number: 159685

FESTO



 [General operating condition](#)

Data sheet

| Feature | Value |
|---|--|
| Valve function | 5/3, pressurized |
| 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 G1/4 |
| 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 |
| CE marking (see declaration of conformity) | as per EU explosion protection directive (ATEX) |
| Certificate issuing authority | DNV-TAA000032X UL MH19482 |
| 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 Non-detenting |
| ISO code | 158 |
| Type of control | Pilot-controlled |
| Pilot air supply port | Internal |
| Flow direction | Non-reversible |
| Symbol | 00991083 |
| Lap | Overlap |
| Suitability for vacuum | no |
| Switching time off | 46 ms |
| On switching time | 20 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) |
| Pilot medium | Compressed air as per ISO 8573-1:2010 [7:4:4] |
| Ambient temperature | -5 °C ... 50 °C |
| Product weight | 650 g |
| Electrical connection | Via N1 coil, to be ordered separately |
| Type of mounting | On sub-base With through-hole |
| Pilot exhaust air port 82 | M5 |
| 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 NBR |
| Housing material | Die-cast aluminum |