

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

Part number: 159684

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	-0.09 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 Non-detenting
ISO code	169
Type of control	Pilot-controlled
Pilot air supply port	External
Flow direction	Reversible
Symbol	00991079
Lap	Overlap
Pilot pressure MPa	0.3 MPa ... 1 MPa
Pilot pressure	3 bar ... 10 bar
Suitability for vacuum	yes
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
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	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