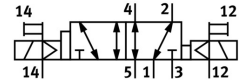
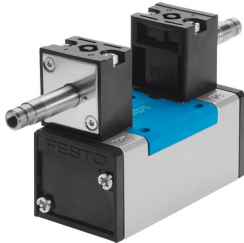


# Solenoid valve

## JMN1DH-5/2-D-2-S-C

Part number: 159719

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                                | Value                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                         | 5/2-way, bistable, dominant                                                                |
| Type of actuation                      | Electric                                                                                   |
| Construction width                     | 54 mm                                                                                      |
| Standard nominal flow rate             | 2300 l/min                                                                                 |
| pneumatic working port                 | Sub-base size 2 to ISO 5599-1<br>G3/8                                                      |
| Operating voltage                      | Via solenoid coil, must be ordered separately                                              |
| Operating pressure                     | -0.09 MPa ... 1.6 MPa                                                                      |
| Operating pressure                     | -0.9 bar ... 16 bar                                                                        |
| Design                                 | Piston gate valve                                                                          |
| Maritime classification                | See certificate                                                                            |
| Certificate issuing authority          | DNV-TAA000032X                                                                             |
| Degree of protection                   | IP65                                                                                       |
| Nominal size                           | 11.5 mm                                                                                    |
| Grid dimension                         | 56 mm                                                                                      |
| Exhaust-air function                   | With flow control option                                                                   |
| Sealing principle                      | Soft                                                                                       |
| Mounting position                      | optional                                                                                   |
| Conforms to standard                   | ISO 5599-1                                                                                 |
| Manual override                        | Detenting via accessory<br>Non-detenting                                                   |
| ISO code                               | 269                                                                                        |
| Type of piloting                       | Pilot actuated                                                                             |
| Pilot air supply                       | External                                                                                   |
| Flow direction                         | Reversible                                                                                 |
| Symbol                                 | 00991064                                                                                   |
| lap                                    | Overlap                                                                                    |
| Pilot pressure                         | 2 bar ... 10 bar                                                                           |
| Switching time reversal                | 24 ms                                                                                      |
| Switching time reversal (dominating)   | 21 ms                                                                                      |
| Max. positive test pulse with 0 signal | 3700 µs                                                                                    |
| Max. negative test pulse with 1 signal | 4600 µs                                                                                    |
| Operating medium                       | Compressed air to ISO 8573-1:2010 [7:4:4]                                                  |
| Note on operating and pilot medium     | Lubricated operation possible (in which case lubricated operation will always be required) |
| Vibration resistance                   | Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6           |

| Feature                      | Value                                                             |
|------------------------------|-------------------------------------------------------------------|
| Shock resistance             | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27 |
| LABS (PWIS) conformity       | VDMA24364-B1/B2-L                                                 |
| Media temperature            | -5 °C ... 50 °C                                                   |
| Sound pressure level         | 85 dB(A)                                                          |
| Pilot medium                 | Compressed air to ISO 8573-1:2010 [7:4:4]                         |
| 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>Via through-hole and screw                         |
| Pilot exhaust port 82        | M5                                                                |
| Pilot exhaust port 84        | M5                                                                |
| Pilot air port 12            | Sub-base size 2 to ISO 5599-1                                     |
| Pilot air port 14            | Sub-base size 2 to ISO 5599-1                                     |
| Pneumatic connection, port 1 | Sub-base size 2 to ISO 5599-1                                     |
| Pneumatic connection, port 2 | Sub-base size 2 to ISO 5599-1                                     |
| Pneumatic connection, port 3 | Sub-base size 2 to ISO 5599-1                                     |
| Pneumatic connection, port 4 | Sub-base size 2 to ISO 5599-1                                     |
| Pneumatic connection, port 5 | Sub-base size 2 to ISO 5599-1                                     |
| Note on materials            | RoHS-compliant                                                    |
| Material seals               | HNBR<br>NBR                                                       |
| Material housing             | Die-cast aluminium                                                |