

# Air solenoid valve MDH-5/2-D-1-S-FR-M12-C

Part number: 533761

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                                 | 24V DC   |
| Operating pressure                                | -0.9 bar ... 16 bar  |
| Structural design                                 | Piston gate valve  |
| Reset method                                      | Mechanical spring  |
| 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                                   | Non-detenting  |
| ISO code  | 169  |
| Type of control                                   | Pilot-controlled   |
| Pilot air supply port                             | External   |
| Flow direction                                    | Reversible   |
| Symbol  | 00991190   |
| Lap   | Overlap  |
| Pilot pressure                                    | 3 bar ... 10 bar   |
| Switching time off                                | 42 ms  |
| On switching time                                 | 20 ms  |
| Duty cycle  | 100%   |
| Max. positive test pulse with 0 signal            | 3800 μs  |
| Max. negative test pulse on 1 signal              | 4900 μs  |
| Coil characteristics                              | 24 V DC: 2.7 W   |
| Permissible voltage fluctuations                  | +/- 10 %   |
| 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 |

| Feature                | Value   |
|------------------------|---|
| 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  | -10 °C ... 50 °C  |
| Noise level            | 85 dB(A)  |
| Pilot medium           | Compressed air as per ISO 8573-1:2010 [7:4:4]                         |
| Ambient temperature    | -10 °C ... 50 °C  |
| Product weight         | 420 g   |
| Electrical connection  | M12x1   |
| Type of mounting       | On sub-base<br>With through-hole                                      |
| Pilot air port 12      | Sub-base  |
| Pilot air port 14      | Sub-base  |
| 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                                    |
| Seals material         | HNBR<br>NBR   |
| Housing material       | Die-cast aluminum   |