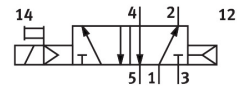


# Air solenoid valve

## MDH-5/2-D-3-M12-C

Part number: 533009

**FESTO**



## Data sheet

| Feature                                  | Value  |
|--|--|
| Valve function                           | 5/2, monostable  |
| Actuation type                           | Electrical   |
| Width                                    | 65 mm  |
| Standard nominal flow rate               | 4500 l/min   |
| Pneumatic working port                   | Sub-base, size 3 as per ISO 5599-1<br>G1/2                         |
| Operating voltage                        | 24V DC   |
| Operating pressure                       | 2 bar...10 bar   |
| Structural design                        | Piston gate valve  |
| Reset method                             | Pneumatic spring   |
| Degree of protection                     | IP65   |
| Nominal width                            | 14.5 mm  |
| Width dimension                          | 71 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                                 | 351  |
| Type of control                          | Pilot-controlled   |
| Pilot air supply port                    | Internal   |
| Flow direction                           | Non-reversible   |
| Lap                                      | Overlap  |
| Switching time off                       | 57 ms  |
| On switching time                        | 54 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) |

| Feature                   | Value  |
|---------------------------|--|
| 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     | -10 °C...50 °C   |
| Noise level               | 85 dB(A)   |
| Ambient temperature       | -10 °C...50 °C   |
| Product weight            | 1000 g   |
| Electrical connection     | M12x1  |
| Type of mounting          | On sub-base<br>With through-hole and screw   |
| Pilot exhaust air port 84 | M5   |
| Pneumatic connection 1    | Sub-base, size 3 as per ISO 5599-1   |
| Pneumatic connection 2    | Sub-base, size 3 as per ISO 5599-1   |
| Pneumatic connection 3    | Sub-base, size 3 as per ISO 5599-1   |
| Pneumatic connection 4    | Sub-base, size 3 as per ISO 5599-1   |
| Pneumatic connection 5    | Sub-base, size 3 as per ISO 5599-1   |
| Note on materials         | RoHS-compliant   |
| Seals material            | HNBR<br>NBR  |
| Housing material          | Die-cast aluminum  |