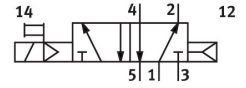


# Air solenoid valve MDH-5/2-D-2-M12-C

Part number: 533008

**FESTO**



## Data sheet

| Feature                                           | Value                                                              |
|---------------------------------------------------|--------------------------------------------------------------------|
| Valve function                                    | 5/2-way, monostable                                                |
| Actuation type                                    | Electrical                                                         |
| Width                                             | 54 mm                                                              |
| Normal nominal flow rate (normalized to DIN 1343) | 2300 l/min                                                         |
| Pneumatic working port                            | Sub-base, size 2 according to ISO 5599-1<br>G3/8                   |
| 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                                     | 11.5 mm                                                            |
| Width dimension                                   | 56 mm                                                              |
| Exhaust air function                              | Adjustable                                                         |
| Sealing principle                                 | Soft                                                               |
| Mounting position                                 | Any                                                                |
| Conforms to standard                              | ISO 5599-1                                                         |
| Manual override                                   | Non-detenting                                                      |
| ISO code                                          | 251                                                                |
| Type of control                                   | Piloted                                                            |
| Pilot air supply port                             | Internal                                                           |
| Flow direction                                    | Non-reversible                                                     |
| Lap                                               | Positive overlap                                                   |
| Switching time off                                | 60 ms                                                              |
| On switching time                                 | 45 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            | 810 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 2 as per ISO 5599-1                                                   |
| Pneumatic connection 2    | Sub-base, size 2 as per ISO 5599-1                                                   |
| Pneumatic connection 3    | Sub-base, size 2 as per ISO 5599-1                                                   |
| Pneumatic connection 4    | Sub-base, size 2 as per ISO 5599-1                                                   |
| Pneumatic connection 5    | Sub-base, size 2 as per ISO 5599-1                                                   |
| Note on materials         | RoHS compliant                                                                       |
| Seals material            | HNBR<br>NBR                                                                          |
| Housing material          | Die-cast aluminum                                                                    |