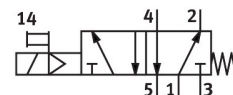


# Solenoid valve

## MDH-5/2-D-1-FR-M12-C

Part number: 533010

FESTO



## Data sheet

| Feature   | Value                                     |
|---|---|
| Valve function  | 5/2-way, monostable                       |
| Type of actuation                                     | Electric                                  |
| Construction width                                    | 42 mm                                     |
| Standard nominal flow rate (standardised to DIN 1343) | 1200 l/min                                |
| pneumatic working port                                | Sub-base size 1 to ISO 5599-1<br>G1/4     |
| Operating voltage                                     | 24V DC                                    |
| Operating pressure                                    | 3 bar...10 bar                            |
| Design  | Piston gate valve                         |
| Type of reset   | Mechanical spring                         |
| Degree of protection                                  | IP65                                      |
| Nominal size  | 8 mm                                      |
| Grid dimension  | 43 mm                                     |
| Exhaust-air function                                  | With flow control option                  |
| Sealing principle                                     | Soft                                      |
| Mounting position                                     | optional                                  |
| Conforms to standard                                  | ISO 5599-1                                |
| Manual override                                       | Non-detenting                             |
| ISO code  | 152                                       |
| Type of piloting                                      | Pilot actuated                            |
| Pilot air supply                                      | Internal                                  |
| Flow direction  | Non-reversible                            |
| lap   | Overlap                                   |
| Switching time off                                    | 42 ms                                     |
| Switching time on                                     | 20 ms                                     |
| Duty cycle  | 100%                                      |
| Max. positive test pulse with 0 signal                | 3800 µs                                   |
| Max. negative test pulse with 1 signal                | 4900 µs                                   |
| Characteristic coil data                              | 24 V DC: 2.7 W                            |
| Permissible voltage fluctuations                      | +/- 10 %                                  |
| Operating medium                                      | Compressed air to ISO 8573-1:2010 [7:4:4] |

| Feature                            | Value  |
|------------------------------------|--|
| 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           |
| 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                  | -10 °C...50 °C   |
| Sound pressure level               | 85 dB(A)   |
| Ambient temperature                | -10 °C...50 °C   |
| Product weight                     | 420 g  |
| Electrical connection              | M12x1  |
| Type of mounting                   | On sub-base<br>With through-hole   |
| Pneumatic connection, port 1       | Sub-base size 1 to ISO 5599-1  |
| Pneumatic connection, port 2       | Sub-base size 1 to ISO 5599-1  |
| Pneumatic connection, port 3       | Sub-base size 1 to ISO 5599-1  |
| Pneumatic connection, port 4       | Sub-base size 1 to ISO 5599-1  |
| Pneumatic connection, port 5       | Sub-base size 1 to ISO 5599-1  |
| Material seals                     | HNBR<br>NBR  |
| Material housing                   | Die-cast aluminium   |