

# Solenoid valve

## MDH-5/2-D-1-FR-M12D-C

Part number: 540804

FESTO

With M12 plug connection.



## Data sheet

| Feature                               | Value  |
|---------------------------------------|--|
| Valve function                        | 5/2 monostable   |
| Type of actuation                     | electrical   |
| Width                                 | 42 mm  |
| Standard nominal flow rate            | 1,200 l/min  |
| Working pressure                      | 3 ... 10 bar   |
| Design structure                      | Piston slide   |
| Type of reset                         | mechanical spring  |
| Protection class                      | IP65   |
| Nominal size                          | 8 mm   |
| Grid dimension                        | 43 mm  |
| Exhaust-air function                  | throttleable   |
| Sealing principle                     | soft   |
| Assembly position                     | Any  |
| Conforms to standard                  | ISO 5599-1   |
| Manual override                       | Pushing  |
| ISO code                              | 152  |
| Type of piloting                      | Piloted  |
| Pilot air supply                      | Internal   |
| Flow direction                        | non reversible   |
| Lap                                   | Positive overlap   |
| Switching time off                    | 42 ms  |
| Switching time on                     | 20 ms  |
| Duty cycle                            | 100 %  |
| Max. positive test pulse with logic 0 | 3,800 µs   |
| Max. negative test pulse with logic 1 | 4,900 µs   |
| Characteristic coil data              | 24 V DC: 2.7 W   |
| Permissible voltage fluctuation       | +/- 10 %   |
| Operating medium                      | Compressed air in accordance with ISO8573-1:2010 [7:4:4]                             |
| Note on operating and pilot medium    | Lubricated operation possible (subsequently required for further operation)          |
| 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 in accordance with FN 942017-5 and EN 60068-2-27    |
| PWIS conformity                       | VDMA24364-B1/B2-L  |
| Medium temperature                    | -10 ... 50 °C  |
| Sound pressure level                  | 85 dB(A)   |
| Ambient temperature                   | -10 ... 50 °C  |
| Product weight                        | 420 g  |
| Electrical connection                 | M12x1  |
| Mounting type                         | On subbase<br>with through hole  |
| Pneumatic connection, port 1          | Connection plate size 1 as per ISO 5599-1  |
| Pneumatic connection, port 2          | Connection plate size 1 as per ISO 5599-1  |

| Feature                      | Value                                     |
|------------------------------|---|
| Pneumatic connection, port 3 | Connection plate size 1 as per ISO 5599-1 |
| Pneumatic connection, port 4 | Connection plate size 1 as per ISO 5599-1 |
| Pneumatic connection, port 5 | Connection plate size 1 as per ISO 5599-1 |
| Material seals               | HNBR<br>NBR                               |
| Material housing             | Aluminum die cast                         |