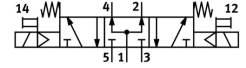


# Solenoid valve

## MDH-5/3B-D-3-M12D-C

Part number: 540823

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                | Value                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                         | 5/3-way, pressurised                                                                       |
| Type of actuation                      | Electric                                                                                   |
| Construction width                     | 65 mm                                                                                      |
| Standard nominal flow rate             | 4000 l/min                                                                                 |
| pneumatic working port                 | Sub-base size 3 to ISO 5599-1<br>G1/2                                                      |
| 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                           | 14.5 mm                                                                                    |
| Grid dimension                         | 71 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                               | 358                                                                                        |
| Type of piloting                       | Pilot actuated                                                                             |
| Pilot air supply                       | Internal                                                                                   |
| Flow direction                         | Non-reversible                                                                             |
| Symbol                                 | 00991083                                                                                   |
| lap                                    | Overlap                                                                                    |
| Switching time off                     | 84 ms                                                                                      |
| Switching time on                      | 36 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]                                                  |
| 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           |

| Feature                      | Value                                                             |
|------------------------------|-------------------------------------------------------------------|
| 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               | 1120 g                                                            |
| Electrical connection        | M12x1                                                             |
| Type of mounting             | On sub-base<br>Via through-hole and screw                         |
| Pilot exhaust port 82        | M5                                                                |
| Pilot exhaust port 84        | M5                                                                |
| Pneumatic connection, port 1 | Sub-base size 3 to ISO 5599-1                                     |
| Pneumatic connection, port 2 | Sub-base size 3 to ISO 5599-1                                     |
| Pneumatic connection, port 3 | Sub-base size 3 to ISO 5599-1                                     |
| Pneumatic connection, port 4 | Sub-base size 3 to ISO 5599-1                                     |
| Pneumatic connection, port 5 | Sub-base size 3 to ISO 5599-1                                     |
| Note on materials            | RoHS-compliant                                                    |
| Material seals               | HNBR<br>NBR                                                       |
| Material housing             | Die-cast aluminium                                                |