

# Air solenoid valve MDH-5/3B-D-3-M12D-C

Part number: 540823

FESTO



 [General operating condition](#)

## Data sheet

| Feature   | Value  |
|---|--|
| Valve function                                    | 5/3, pressurized   |
| Actuation type                                    | Electrical   |
| Width   | 65 mm  |
| Normal nominal flow rate (normalized to DIN 1343) | 4000 l/min   |
| Pneumatic working port                            | Sub-base, size 3 as per ISO 5599-1<br>G1/2   |
| Operating voltage                                 | 24V DC   |
| Operating pressure                                | 3 bar ... 10 bar   |
| Structural design                                 | Piston gate valve  |
| Reset method                                      | Mechanical 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  | 358  |
| Type of control                                   | Pilot-controlled   |
| Pilot air supply port                             | Internal   |
| Flow direction                                    | Non-reversible   |
| Symbol  | 00991083   |
| Lap   | Overlap  |
| Switching time off                                | 84 ms  |
| On switching time                                 | 36 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)                   |
| 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                |

| <b>Feature</b>            | <b>Value</b>                               |
|---------------------------|--|
| 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            | 1120 g                                     |
| Electrical connection     | M12x1                                      |
| Type of mounting          | On sub-base<br>With through-hole and screw |
| Pilot exhaust air port 82 | M5   |
| 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                          |