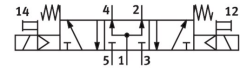


# Air solenoid valve

## 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                                                                                |
| Standard nominal flow rate               | 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                |

| Feature                   | Value                              |
|---------------------------|------------------------------------|
| 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          | 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                  |