

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

Part number: 540822

FESTO



 [General operating condition](#)

## Data sheet

| Feature                                           | Value                                                                                |
|---------------------------------------------------|--------------------------------------------------------------------------------------|
| Valve function                                    | 5/3, closed                                                                          |
| Actuation type                                    | Electrical                                                                           |
| Width                                             | 65 mm                                                                                |
| Normal nominal flow rate (normalized to DIN 1343) | 4100 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                                          | 356                                                                                  |
| Type of control                                   | Pilot-controlled                                                                     |
| Pilot air supply port                             | Internal                                                                             |
| Flow direction                                    | Non-reversible                                                                       |
| Symbol                                            | 00991080                                                                             |
| Lap                                               | Overlap                                                                              |
| Switching time off                                | 79 ms                                                                                |
| On switching time                                 | 35 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          | 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                          |