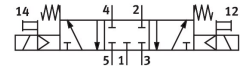


# Air solenoid valve

## MDH-5/3G-D-1-M12-C

Part number: 525307

FESTO



## Data sheet

| Feature                                           | Value                                                              |
|---------------------------------------------------|--------------------------------------------------------------------|
| Valve function                                    | 5/3-way, closed                                                    |
| Actuation type                                    | Electrical                                                         |
| Width                                             | 42 mm                                                              |
| Normal nominal flow rate (normalized to DIN 1343) | 1200 l/min                                                         |
| Pneumatic working port                            | Sub-base, size 1 according to ISO 5599-1<br>G1/4                   |
| 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                                     | 8 mm                                                               |
| Width dimension                                   | 43 mm                                                              |
| Exhaust air function                              | Adjustable                                                         |
| Sealing principle                                 | Soft                                                               |
| Mounting position                                 | Any                                                                |
| Conforms to standard                              | ISO 5599-1                                                         |
| Manual override                                   | Non-detenting                                                      |
| ISO code                                          | 156                                                                |
| Type of control                                   | Piloted                                                            |
| Pilot air supply port                             | Internal                                                           |
| Flow direction                                    | Non-reversible                                                     |
| Lap                                               | Positive overlap                                                   |
| Switching time off                                | 55 ms                                                              |
| On switching time                                 | 25 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) |

| Feature                | Value                                                                                |
|------------------------|--------------------------------------------------------------------------------------|
| 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                |
| 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         | 580 g                                                                                |
| Electrical connection  | M12x1                                                                                |
| Type of mounting       | On sub-base<br>With through-hole                                                     |
| Pneumatic connection 1 | Sub-base, size 1 as per ISO 5599-1                                                   |
| Pneumatic connection 2 | Sub-base, size 1 as per ISO 5599-1                                                   |
| Pneumatic connection 3 | Sub-base, size 1 as per ISO 5599-1                                                   |
| Pneumatic connection 4 | Sub-base, size 1 as per ISO 5599-1                                                   |
| Pneumatic connection 5 | Sub-base, size 1 as per ISO 5599-1                                                   |
| Seals material         | HNBR<br>NBR                                                                          |
| Housing material       | Die-cast aluminum                                                                    |