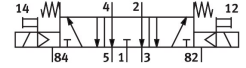


# Air solenoid valve MVH-5/3E-1/4-B

Part number: 19139

**FESTO**



## Data sheet

| Feature                                           | Value                                                              |
|---------------------------------------------------|--------------------------------------------------------------------|
| Valve function                                    | 5/3 exhausted                                                      |
| Actuation type                                    | Electrical                                                         |
| Width                                             | 32 mm                                                              |
| Normal nominal flow rate (normalized to DIN 1343) | 1600 l/min                                                         |
| Pneumatic working port                            | G1/4                                                               |
| Operating pressure                                | 0.3 MPa...1 MPa<br>3 bar...10 bar                                  |
| Structural design                                 | Piston gate valve                                                  |
| Reset method                                      | Mechanical spring                                                  |
| Nominal width                                     | 10 mm                                                              |
| Width dimension                                   | 33 mm                                                              |
| Exhaust air function                              | Adjustable                                                         |
| Sealing principle                                 | Soft                                                               |
| Mounting position                                 | Any                                                                |
| Manual override                                   | Non-detenting                                                      |
| Type of control                                   | Piloted                                                            |
| Pilot air supply port                             | Internal                                                           |
| Flow direction                                    | Non-reversible                                                     |
| Lap                                               | Positive overlap                                                   |
| b-value                                           | 0.38                                                               |
| C value                                           | 6.35 l/sbar                                                        |
| Max. switching frequency                          | 3 Hz                                                               |
| Switching time off                                | 38 ms                                                              |
| On switching time                                 | 36 ms                                                              |
| Changeover time                                   | 46 ms                                                              |
| Max. positive test pulse with 0 signal            | 2200 µs                                                            |
| Max. negative test pulse on 1 signal              | 3700 µs                                                            |
| Coil characteristics                              | 24 V DC: 2.5 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) |
| Corrosion resistance class (CRC)                  | 1 - Low corrosion stress                                           |

| Feature                   | Value                                                      |
|---------------------------|------------------------------------------------------------|
| LABS (PWIS) conformity    | VDMA24364-B1/B2-L                                          |
| Storage temperature       | -40 °C...60 °C                                             |
| Temperature of medium     | -5 °C...50 °C                                              |
| Ambient temperature       | -5 °C...50 °C                                              |
| Product weight            | 660 g                                                      |
| Type of mounting          | Alternatively:<br>On PR manifold rail<br>With through-hole |
| Pilot exhaust air port 82 | M5                                                         |
| Pilot exhaust air port 84 | M5                                                         |
| Pilot air port 12         | G1/8                                                       |
| Pilot air port 14         | G1/8                                                       |
| Pneumatic connection 1    | G1/4                                                       |
| Pneumatic connection 2    | G1/4                                                       |
| Pneumatic connection 3    | G1/4                                                       |
| Pneumatic connection 4    | G1/4                                                       |
| Pneumatic connection 5    | G1/4                                                       |
| Note on materials         | RoHS compliant                                             |
| Seals material            | NBR                                                        |
| Housing material          | Die-cast aluminum                                          |