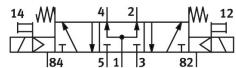


# Solenoid valve MVH-5/3B-1/4-B

Part number: 19140

**FESTO**



## Data sheet

| Feature   | Value  |
|---|--|
| Valve function  | 5/3-way, pressurised   |
| Type of actuation                                     | Electric   |
| Construction width                                    | 32 mm  |
| Standard nominal flow rate (standardised to DIN 1343) | 1600 l/min   |
| pneumatic working port                                | G1/4   |
| Operating pressure                                    | 0.3 MPa...1 MPa<br>3 bar...10 bar  |
| Design  | Piston gate valve  |
| Type of reset   | Mechanical spring  |
| Nominal size  | 10 mm  |
| Grid dimension  | 33 mm  |
| Exhaust-air function                                  | With flow control option   |
| Sealing principle                                     | Soft   |
| Mounting position                                     | optional   |
| Manual override                                       | Non-detenting  |
| Type of piloting                                      | Pilot actuated   |
| Pilot air supply                                      | Internal   |
| Flow direction  | Non-reversible   |
| lap   | Overlap  |
| b value   | 0.38   |
| C value   | 6.35 l/sbar  |
| Max. switching frequency                              | 3 Hz   |
| Switching time off                                    | 41 ms  |
| Switching time on                                     | 32 ms  |
| Switching time reversal                               | 46 ms  |
| Max. positive test pulse with 0 signal                | 2200 µs  |
| Max. negative test pulse with 1 signal                | 3700 µs  |
| Characteristic coil data                              | 24 V DC: 2.5 W   |
| Permissible voltage fluctuations                      | +/- 10 %   |
| Operating medium                                      | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Note on operating and pilot medium                    | Lubricated operation possible (in which case lubricated operation will always be required) |

| Feature                        | Value                                      |
|--------------------------------|--|
| Corrosion resistance class CRC | 1 - Low corrosion stress                   |
| LABS (PWIS) conformity         | VDMA24364-B1/B2-L                          |
| Storage temperature            | -40 °C...60 °C                             |
| Media temperature              | -5 °C...50 °C                              |
| Ambient temperature            | -5 °C...50 °C                              |
| Product weight                 | 660 g                                      |
| Type of mounting               | Either:<br>On PR rail<br>With through-hole |
| Pilot exhaust port 82          | M5   |
| Pilot exhaust port 84          | M5   |
| Pilot air port 12              | G1/8                                       |
| Pilot air port 14              | G1/8                                       |
| Pneumatic connection, port 1   | G1/4                                       |
| Pneumatic connection, port 2   | G1/4                                       |
| Pneumatic connection, port 3   | G1/4                                       |
| Pneumatic connection, port 4   | G1/4                                       |
| Pneumatic connection, port 5   | G1/4                                       |
| Note on materials              | RoHS-compliant                             |
| Material seals                 | NBR  |
| Material housing               | Die-cast aluminium                         |