

# Solenoid valve

## MFH-5/3E-3/8-S-B

Part number: 31318

**FESTO**



## Data sheet

| Feature                                               | Value                                                                                      |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Valve function                                        | 5/3 exhausted                                                                              |
| Type of actuation                                     | Electric                                                                                   |
| Construction width                                    | 40 mm                                                                                      |
| Standard nominal flow rate (standardised to DIN 1343) | 2200 l/min                                                                                 |
| pneumatic working port                                | G3/8                                                                                       |
| Operating pressure                                    | -0.09 MPa...1 MPa<br>-0.9 bar...10 bar                                                     |
| Design                                                | Piston gate valve                                                                          |
| Type of reset                                         | Mechanical spring                                                                          |
| Nominal size                                          | 12 mm                                                                                      |
| Grid dimension                                        | 41 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                                      | External                                                                                   |
| Flow direction                                        | Reversible                                                                                 |
| lap                                                   | Overlap                                                                                    |
| Pilot pressure                                        | 0.3 MPa...1 MPa<br>3 bar...10 bar                                                          |
| Max. switching frequency                              | 3 Hz                                                                                       |
| Switching time off                                    | 114 ms                                                                                     |
| Switching time on                                     | 26 ms                                                                                      |
| Switching time reversal                               | 83 ms                                                                                      |
| Max. positive test pulse with 0 signal                | 2200 µs                                                                                    |
| Max. negative test pulse with 1 signal                | 3700 µs                                                                                    |
| 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) |
| Corrosion resistance class CRC                        | 1 - Low corrosion stress                                                                   |
| LABS (PWIS) conformity                                | VDMA24364-B1/B2-L                                                                          |

| Feature                      | Value                                      |
|------------------------------|--------------------------------------------|
| Storage temperature          | -40 °C...60 °C                             |
| Media temperature            | -10 °C...60 °C                             |
| Pilot medium                 | Compressed air to ISO 8573-1:2010 [7:4:4]  |
| Ambient temperature          | -5 °C...40 °C                              |
| Product weight               | 780 g                                      |
| Electrical connection        | Via F coil, to be ordered separately       |
| 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 | G3/8                                       |
| Pneumatic connection, port 2 | G3/8                                       |
| Pneumatic connection, port 3 | G3/8                                       |
| Pneumatic connection, port 4 | G3/8                                       |
| Pneumatic connection, port 5 | G3/8                                       |
| Note on materials            | RoHS-compliant                             |
| Material seals               | NBR                                        |
| Material housing             | Die-cast aluminium                         |