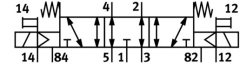
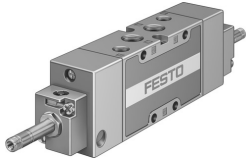


# Air solenoid valve MFH-5/3E-1/4-S-B

Part number: 31002

FESTO



[General operating condition](#)

## Data sheet

| Feature                                  | Value  |
|--|--|
| Valve function                           | 5/3, exhausted   |
| Actuation type                           | Electrical   |
| Width                                    | 32 mm  |
| Standard nominal flow rate               | 1600 l/min   |
| Pneumatic working port                   | G1/4   |
| Operating pressure                       | -0.09 MPa ... 1 MPa  |
| Operating pressure                       | -0.9 bar ... 10 bar  |
| Structural design                        | Piston gate valve  |
| Reset method                             | Mechanical spring  |
| Nominal width                            | 10 mm  |
| Width dimension                          | 33 mm  |
| Exhaust air function                     | With flow control option   |
| Sealing principle                        | Soft   |
| Mounting position                        | Any  |
| Manual override                          | Non-detenting  |
| Type of control                          | Pilot-controlled   |
| Pilot air supply port                    | External   |
| Flow direction                           | Reversible   |
| Symbol                                   | 00991032   |
| Lap                                      | Overlap  |
| Pilot pressure MPa                       | 0.3 MPa ... 1 MPa  |
| Pilot pressure                           | 3 bar ... 10 bar   |
| b-value                                  | 0.38   |
| C value                                  | 6.35 l/sbar  |
| Max. switching frequency                 | 3 Hz   |
| Switching time off                       | 32 ms  |
| On switching time                        | 23 ms  |
| Changeover time                          | 35 ms  |
| Max. positive test pulse with 0 signal   | 2200 µs  |
| Max. negative test pulse on 1 signal     | 3700 µs  |
| 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   |
| LABS (PWIS) conformity                   | VDMA24364-B1/B2-L  |
| Storage temperature                      | -40 °C ... 60 °C   |
| Temperature of medium                    | -10 °C ... 60 °C   |

| Feature                   | Value  |
|---------------------------|--|
| Pilot medium              | Compressed air as per ISO 8573-1:2010 [7:4:4]  |
| Ambient temperature       | -5 °C ... 40 °C                                |
| Product weight            | 500 g  |
| Electrical connection     | Via F coil, to be ordered separately           |
| Type of mounting          | Optionally:<br>On PR 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    | G $\frac{1}{4}$                                |
| 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                              |