

# Air solenoid valve JMFH-5/2-D-3-S-C

Part number: 151033

FESTO



General operating condition

## Data sheet

| Feature   | Value   |
|---|---|
| Valve function                                    | 5/2, bistable                                 |
| Actuation type                                    | Electrical                                    |
| Width   | 65 mm   |
| Normal nominal flow rate (normalized to DIN 1343) | 4500 l/min                                    |
| Pneumatic working port                            | Sub-base, size 3 as per ISO 5599-1<br>G1/2    |
| Operating voltage                                 | Via solenoid coil, to be ordered separately   |
| Operating pressure                                | -0.09 MPa ... 1.6 MPa                         |
| Operating pressure                                | -0.9 bar ... 16 bar                           |
| Structural design                                 | Piston gate valve                             |
| Certification                                     | c UL us - Recognized (OL)                     |
| Maritime classification                           | See certificate                               |
| Certificate issuing authority                     | DNV-TAA000032X<br>UL MH19482                  |
| Degree of protection                              | IP65  |
| Nominal width                                     | 14.5 mm                                       |
| Width dimension                                   | 71 mm   |
| Exhaust air function                              | With flow control option                      |
| Sealing principle                                 | Soft  |
| Mounting position                                 | Any   |
| Conforms to standard                              | ISO 5599-1                                    |
| Manual override                                   | Detenting via accessory<br>Non-detenting      |
| ISO code  | 369   |
| Type of control                                   | Pilot-controlled                              |
| Pilot air supply port                             | External                                      |
| Flow direction                                    | Reversible                                    |
| Symbol  | 00991067                                      |
| Lap   | Overlap                                       |
| Pilot pressure MPa                                | 0.2 MPa ... 1 MPa                             |
| Pilot pressure                                    | 2 bar ... 10 bar                              |
| Suitability for vacuum                            | yes   |
| Changeover time                                   | 18 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] |

| Feature                                  | Value  |
|--|--|
| Information on operating and pilot media | Operation with oil lubrication possible (required for further use)   |
| 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 ... 60 °C   |
| Noise level                              | 85 dB(A)   |
| Pilot medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4]  |
| Ambient temperature                      | -5 °C ... 40 °C  |
| Product weight                           | 1060 g   |
| Electrical connection                    | 3-pin<br>Form A, with VACF-A Coil<br>Form B Industry (11 mm), with MSF Coil<br>Via solenoid coil, to be ordered separately |
| Type of mounting                         | On sub-base<br>With through-hole and screw   |
| Pilot exhaust air port 82                | M5   |
| Pilot exhaust air port 84                | M5   |
| Pilot air port 12                        | Sub-base, size 3 as per ISO 5599-1   |
| Pilot air port 14                        | Sub-base, size 3 as per ISO 5599-1   |
| Pneumatic connection 1                   | Sub-base, size 3 as per ISO 5599-1   |
| Pneumatic connection 2                   | Sub-base, size 3 as per ISO 5599-1   |
| Pneumatic connection 3                   | Sub-base, size 3 as per ISO 5599-1   |
| Pneumatic connection 4                   | Sub-base, size 3 as per ISO 5599-1   |
| Pneumatic connection 5                   | Sub-base, size 3 as per ISO 5599-1   |
| Note on materials                        | RoHS-compliant   |
| Seals material                           | HNBR<br>NBR  |
| Housing material                         | Die-cast aluminum  |