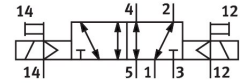


# Air solenoid valve JMFH-5/2-D-1-S-C-EX

Part number: 535966

FESTO



General operating condition

## Data sheet

| Feature                                           | Value                                           |
|---------------------------------------------------|-------------------------------------------------|
| Valve function                                    | 5/2, bistable                                   |
| Actuation type                                    | Electrical                                      |
| Width                                             | 42 mm                                           |
| Standard nominal flow rate                        | 1200 l/min                                      |
| Pneumatic working port                            | Sub-base, size 1 according to ISO 5599-1 G1/4   |
| 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                               |
| CE marking (see declaration of conformity)        | as per EU explosion protection directive (ATEX) |
| UKCA marking (see declaration of conformity)      | acc. to UK EX instructions                      |
| ATEX category gas                                 | II 2G                                           |
| ATEX category for dust                            | II 2D                                           |
| Type of ignition protection for gas               | Ex h IIC T4 Gb                                  |
| Type of (ignition) protection for dust            | Ex h IIIC T105°C Db                             |
| Explosive ambient temperature                     | -5°C ≤ Ta ≤ +40°C                               |
| Explosion protection certification outside the EU | EPL Db (GB)<br>EPL Gb (GB)                      |
| Degree of protection                              | IP65                                            |
| Nominal width                                     | 8 mm                                            |
| Width dimension                                   | 43 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                                          | 169                                             |
| 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                                |

| Feature                                  | Value                                                                                                 |
|------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Changeover time                          | 16 ms                                                                                                 |
| Max. positive test pulse with 0 signal   | 2200 µs                                                                                               |
| Max. negative test pulse on 1 signal     | 3700 µs                                                                                               |
| Explosion prevention and protection      | Zone 1 (ATEX)<br>Zone 1 (UKEX)<br>Zone 2 (ATEX)<br>Zone 21 (ATEX)<br>Zone 21 (UKEX)<br>Zone 22 (ATEX) |
| 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)                                    |
| 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                    | -5 °C ... 40 °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                           | 490 g                                                                                                 |
| Electrical connection                    | Via F coil, to be ordered separately                                                                  |
| Type of mounting                         | With through-hole                                                                                     |
| Pilot air port 12                        | Sub-base, size 1 as per ISO 5599-1                                                                    |
| Pilot air port 14                        | Sub-base, size 1 as per ISO 5599-1                                                                    |
| Pneumatic connection 1                   | Sub-base, size 1 as per ISO 5599-1                                                                    |
| Pneumatic connection 2                   | Sub-base, size 1 as per ISO 5599-1                                                                    |
| Pneumatic connection 3                   | Sub-base, size 1 as per ISO 5599-1                                                                    |
| Pneumatic connection 4                   | Sub-base, size 1 as per ISO 5599-1                                                                    |
| Pneumatic connection 5                   | Sub-base, size 1 as per ISO 5599-1                                                                    |
| Note on materials                        | RoHS-compliant                                                                                        |
| Seals material                           | HNBR<br>NBR                                                                                           |
| Housing material                         | Die-cast aluminum                                                                                     |