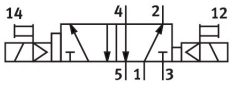
# Air solenoid valve
# JMFDH-5/2-D-2-C-EX

Part number: 536072






## Data sheet

| Feature | Value |
|---|---|
| Valve function | 5/2-way, dominant, bistable |
| Actuation type | Electrical |
| Width | 54 mm |
| Normal nominal flow rate (normalized to DIN 1343) | 2300 l/min |
| Pneumatic working port | Sub-base, size 2 according to ISO 5599-1<br>G3/8 |
| Operating voltage | Via solenoid coil, to be ordered separately |
| Operating pressure | 0.2 MPa...1 MPa<br>2 bar...10 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 | 11.5 mm |
| Width dimension | 56 mm |
| Exhaust air function | Adjustable |
| Sealing principle | Soft |
| Mounting position | Any |
| Conforms to standard | ISO 5599-1 |
| Manual override | Detenting via accessory<br>Non-detenting |
| ISO code | 269 |
| Type of control | Piloted |
| Pilot air supply port | Internal |
| Flow direction | Non-reversible |

| Feature | Value |
|---|---|
| Lap | Positive overlap |
| Suitability for vacuum | No |
| Changeover time | 18 ms |
| Switching time changeover (dominant) | 18 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 | -10 °C...60 °C |
| Noise level | 85 dB(A) |
| Ambient temperature | -5 °C...40 °C |
| Product weight | 820 g |
| Electrical connection | Via F 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 |
| Pneumatic connection 1 | Sub-base, size 2 as per ISO 5599-1 |
| Pneumatic connection 2 | Sub-base, size 2 as per ISO 5599-1 |
| Pneumatic connection 3 | Sub-base, size 2 as per ISO 5599-1 |
| Pneumatic connection 4 | Sub-base, size 2 as per ISO 5599-1 |
| Pneumatic connection 5 | Sub-base, size 2 as per ISO 5599-1 |
| Note on materials | RoHS compliant |
| Seals material | HNBR<br>NBR |
| Housing material | Die-cast aluminum |