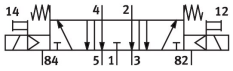
# Air solenoid valve
# MFH-5/3E-1/4-B-EX

Part number: 535943




## Data sheet

| Feature | Value |
|---|---|
| Valve function | 5/3 exhausted |
| Actuation type | Electrical |
| Width | 32 mm |
| Normal nominal flow rate (normalized to DIN 1343) | 1600 l/min |
| Pneumatic working port | G1/4 |
| Operating voltage | 24V DC |
| Operating pressure | 0.3 MPa...1 MPa<br>3 bar...10 bar |
| Structural design | Piston gate valve |
| Reset method | Mechanical spring |
| CE marking (see declaration of conformity) | as per EU explosion protection directive (ATEX) |
| Explosion protection certification outside the EU | EPL Db (GB)<br>EPL Gb (GB) |
| 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 T130°C Db |
| Explosive ambient temperature | -5°C <= Ta <= +40°C |
| Nominal width | 10 mm |
| Width dimension | 33 mm |
| Exhaust air function | Adjustable |
| Sealing principle | Soft |
| Mounting position | Any |
| Manual override | Non-detenting |
| Type of control | Piloted |
| Pilot air supply port | Internal |
| Flow direction | Non-reversible |
| Lap | Positive overlap |
| b-value | 0.38 |
| C value | 6.35 l/sbar |
| Max. switching frequency | 3 Hz |

| Feature | Value |
|---|---|
| Switching time off | 32 ms |
| On switching time | 23 ms |
| Changeover time | 37 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) |
| 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 |
| Ambient temperature | -5 °C...40 °C |
| Product weight | 500 g |
| Electrical connection | Via F coil, to be ordered separately |
| Type of mounting | 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 | G1/4 |
| 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 |