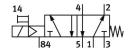
Air solenoid valve MFH-5-1/4-EX Part number: 535907

FESTO





Data sheet

| Electrical Midth 30.5 mm Standard nominal flow rate 1000 l/min Penumatic working port G1/4 Operating voltage Via solenoid coil, to be ordered separately Operating pressure 0.22 MPa0.8 MPa 2.2 bar8 bar Structural design Plate seat Reset method Mechanical spring Emarking (see declaration of conformity) as per EU explosion protection directive (ATEX) Explosion protection certification outside the EU EPL Db (GB) EPL Cb (GB) JKCA marking (see declaration of conformity) acc. to UK EX instructions ATEX category gas Il 2G ATEX category for dust Il 2D Ex h IIC T14 Gb Explosive ambient temperature 5°C <= Ta <= +40°C Degree of protection Ple5 Nominal width 7 mm Midth dimension Sealing principle Mounting position Any Manual override Mounting position Mon-reversible Luap D-value C value 4.49 l/sbar | Feature | Value |
|--|---|---|
| Midth 30.5 mm Standard nominal flow rate 1000 l/min Pneumatic working port 51/4 Operating voltage Via solenoid coil, to be ordered separately 0.22 MPa0,8 MPa 2.2 bar8 MPa 2.2 bar | Valve function | 5/2, monostable |
| Standard nominal flow rate Poeumatic working port Derating voltage Derating pressure Desat Reset method Mechanical spring See declaration of conformity) Derating (see declaration of conformity) Derat | Actuation type | Electrical |
| Are communitic working port Operating voltage Via solenoid coil, to be ordered separately Operating pressure Operating principle Operating pressure Operating pr | Width | 30.5 mm |
| Operating voltage Via solenoid coil, to be ordered separately Operating pressure Ocean Man0.8 MPa 2.2 bar8 bar Plate seat Reset method Mechanical spring Est marking (see declaration of conformity) As per EU explosion protection directive (ATEX) Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) EPL Gb (GB) ATEX category gas II 2G ATEX category for dust II 2D II 30°C Db Explosive ambient temperature -5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 7 mm Midth dimension Sealing principle When control option Sealing principle Mounting position Any Manual override Detenting Five of control Pilot-controlled Non-reversible Lap O-value O 19 C value 4.49 I/Sbar | Standard nominal flow rate | 1000 l/min |
| Operating pressure O. 22 MPa 0.8 MPa 2.2 bar8 bar Plate seat Reset method Reset method Exemarking (see declaration of conformity) Explosion protection certification outside the EU EPL Db (GB) 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 dust Explosive ambient temperature Degree of protection Degree of protection Nominal width 7 mm Nidth dimension 32 mm Exhaust air function With flow control option Sealing principle Mounting position Mounting position Any Manual override Dependent Description Non-reversible Lap Underlap Devalue C value 4.49 I/Sbar | Pneumatic working port | G1/4 |
| 2.2 bar8 bar Structural design Reset method Mechanical spring E marking (see declaration of conformity) as per EU explosion protection directive (ATEX) Explosion protection certification outside the EU EXPLOB (GB) EPL Gb (GB) EPL Gb (GB) BPL Cb (GB) B | Operating voltage | Via solenoid coil, to be ordered separately |
| Mechanical spring as per EU explosion protection directive (ATEX) Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) EPL G | Operating pressure | |
| Explosion protection certification outside the EU EXPLOSE (GB) EYL Db (GB) EYL Gb (GB) EYL G | Structural design | Plate seat |
| Explosion protection certification outside the EU EPL Db (GB) EPL Gb (GB) JKCA marking (see declaration of conformity) acc. to UK EX instructions II 2G ATEX category gas II 2D Type of ignition protection for gas Ex h IIC T4 Gb Explosive ambient temperature -5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 7 mm Width dimension Exhaust air function Sealing principle Mounting position Manual override Type of control Floor controlled Floor direction Non-reversible Lap Underlap O-value C value EPL Db (GB) Extended II 2D IV 2 | Reset method | Mechanical spring |
| EPL Gb (GB) JKCA marking (see declaration of conformity) acc. to UK EX instructions ATEX category gas II 2G ATEX category for dust III 2D Type of ignition protection for gas Ex h IIC T4 Gb Ex h IIC T130°C Db Explosive ambient temperature -5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 7 mm Midth dimension Exhaust air function With flow control option Sealing principle Mounting position Any Manual override Type of control Pilot-controlled Flow direction Non-reversible Jap Underlap Jevalue C value 4.49 I/sbar | CE marking (see declaration of conformity) | as per EU explosion protection directive (ATEX) |
| ATEX category gas ATEX category for dust II 2D Type of ignition protection for gas Ex h IIC T4 Gb Ex h IIC T130°C Db Explosive ambient temperature -5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 7 mm Width dimension Exhaust air function With flow control option Sealing principle Mounting position Manual override Type of control Flow direction Non-reversible Lap Underlap Ovalue C value 4.49 l/sbar | Explosion protection certification outside the EU | |
| ATEX category for dust Type of ignition protection for gas Ex h IIIC T4 Gb Ex h IIIC T130°C Db Explosive ambient temperature -5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 7 mm Width dimension Exhaust air function Sealing principle Mounting position Manual override Type of control Flow direction Non-reversible Lap Underlap O-value C value Ex h IIIC T4 Gb Ex h IIC T4 GB Ex h IIC T4 GB Ex h IIC T4 GB Ex h II | UKCA marking (see declaration of conformity) | acc. to UK EX instructions |
| Ex h IIC T4 Gb Ex h IIC T130°C Db Explosive ambient temperature -5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 7 mm Width dimension Exhaust air function Sealing principle Mounting position Manual override Flow direction Pilot-controlled Flow direction Non-reversible Lap Underlap O-value C value Exh IIC T4 Gb Exh IIC T130°C Db Exh IIC T1 | ATEX category gas | II 2G |
| Ex h IIIC T130°C Db Explosive ambient temperature -5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 7 mm Width dimension Exhaust air function Sealing principle Mounting position Manual override Type of control Flow direction Non-reversible Lap Underlap O-value C value Exh IIIC T130°C Db Flow | ATEX category for dust | II 2D |
| Explosive ambient temperature -5°C <= Ta <= +40°C Degree of protection IP65 Nominal width 7 mm Width dimension Exhaust air function Sealing principle Mounting position Mounting position Any Manual override Type of control Flow direction Non-reversible Lap D-value O.19 C value 4.49 I/sbar | Type of ignition protection for gas | Ex h IIC T4 Gb |
| Degree of protection IP65 Nominal width 7 mm Width dimension 32 mm Exhaust air function With flow control option Sealing principle Soft Wounting position Any Manual override Detenting Type of control Pilot-controlled Flow direction Non-reversible Lap Underlap D-value 0.19 C value 4.49 l/sbar | Type of (ignition) protection for dust | Ex h IIIC T130°C Db |
| Nominal width 7 mm Width dimension 32 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Type of control Pilot-controlled Flow direction Non-reversible Lap Underlap D-value 0.19 C value 4.49 l/sbar | Explosive ambient temperature | -5°C <= Ta <= +40°C |
| Width dimension 32 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Type of control Pilot-controlled Flow direction Non-reversible Lap Underlap D-value 0.19 C value 4.49 l/sbar | Degree of protection | IP65 |
| Exhaust air function Sealing principle Soft Wounting position Manual override Type of control Flow direction Any Underlap O-value C value With flow control option With flow control option Soft Any Any Detenting Pilot-controlled Non-reversible Underlap 0.19 4.49 l/sbar | Nominal width | 7 mm |
| Soft Mounting position Any Manual override Detenting Type of control Flow direction Any Underlap Devalue O.19 Cvalue Soft Any Any Detenting Detenting Pilot-controlled Non-reversible Underlap O.19 Cvalue 4.49 l/sbar | Width dimension | 32 mm |
| Mounting position Manual override Type of control Flow direction Any Non-reversible Underlap D-value 0.19 4.49 l/sbar | Exhaust air function | With flow control option |
| Manual override Type of control Pilot-controlled Flow direction Non-reversible Lap Underlap O-value O.19 C. value 4.49 l/sbar | Sealing principle | Soft |
| Type of control Pilot-controlled Non-reversible Lap Underlap D-value 0.19 C value 4.49 l/sbar | Mounting position | Any |
| Flow direction Non-reversible Underlap O-value 0.19 C value 4.49 l/sbar | Manual override | Detenting |
| Underlap 0-value 0.19 C value 4.49 l/sbar | Type of control | Pilot-controlled |
| 0.19 C value 4.49 l/sbar | Flow direction | Non-reversible |
| C value 4.49 l/sbar | Lap | Underlap |
| | b-value | 0.19 |
| Switching time off 29 ms | C value | 4.49 l/sbar |
| | Switching time off | 29 ms |

| Feature | Value |
|--|--|
| On switching time | 9 ms |
| Max. positive test pulse with 0 signal | 2200 μs |
| Max. negative test pulse on 1 signal | 3700 μs |
| Coil characteristics | See solenoid coil, to be ordered separately |
| Explosion prevention and protection | Zone 1 (ATEX) Zone 1 (UKEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (UKEX) 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 | -20 °C60 °C |
| Temperature of medium | -5 °C40 °C |
| Ambient temperature | -5 °C40 °C |
| Product weight | 290 g |
| Electrical connection | Via F coil, to be ordered separately |
| Type of mounting | On terminal strip With through-hole Optionally: |
| Venting hole connection | M5 |
| Pilot exhaust air port 84 | M5 |
| 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 |