

Solenoid valve

JMFH-5-1/4-S-B-EX

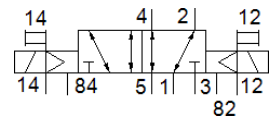
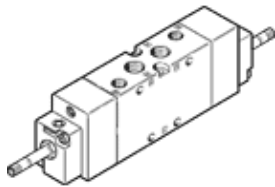
Part number: 535934

Classic - do not use for new projects

FESTO

With manual overrides, without solenoid coils or sockets. Solenoid coils and sockets should be ordered separately.

Modern alternatives can be found by entering the first four characters of the type code in the search field.



Data sheet

| Feature | Value |
|---|---|
| Valve function | 5/2 bistable |
| Type of actuation | electrical |
| Width | 32 mm |
| Standard nominal flow rate | 1,600 l/min |
| Operating pressure MPa | -0.09 ... 1 MPa |
| Working pressure | -0.9 ... 10 bar |
| Design structure | Piston slide |
| CE symbol (see declaration of conformity) | according to EU-Ex protection guideline (ATEX) |
| Explosion protection certification outside the EU | EPL Db (GB) EPL Gb (GB) |
| UKCA marking (see declaration of conformity) | To UK EX instructions |
| ATEX category Gas | II 2G |
| ATEX category Dust | II 2D |
| Explosion ignition protection type Gas | Ex h IIC T4 Gb |
| Explosion ignition protection type Dust | Ex h IIIC T130°C Db |
| Explosion-proof ambient temperature | -5 °C ≤ Ta ≤ +40 °C |
| Protection class | IP65 |
| Nominal size | 10 mm |
| Grid dimension | 33 mm |
| Exhaust-air function | throttleable |
| Sealing principle | soft |
| Assembly position | Any |
| Manual override | Pushing |
| Type of piloting | Piloted |
| Pilot air supply | external |
| Flow direction | reversible |
| Lap | Positive overlap |
| Pilot pressure MPa | 0.2 ... 1 MPa |
| Pilot pressure | 2 ... 10 bar |
| b value | 0.38 |
| C value | 6.35 l/sbar |
| Max. switching frequency | 3 Hz |
| Switching time reversal | 14 ms |
| Max. positive test pulse with logic 0 | 2,200 μs |
| Max. negative test pulse with logic 1 | 3,700 μs |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (subsequently required for further operation) |
| Corrosion resistance classification CRC | 1 - Low corrosion stress |
| PWIS conformity | VDMA24364-B1/B2-L |
| Storage temperature | -40 ... 60 °C |

| Feature | Value |
|------------------------------|--|
| Medium temperature | -10 ... 60 °C |
| Pilot medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Ambient temperature | -5 ... 40 °C |
| Product weight | 460 g |
| Electrical connection | Via F coil, must be ordered separately |
| Mounting type | with through hole |
| Pilot exhaust port 82 | M5 |
| Pilot exhaust port 84 | M5 |
| Pilot air port 12 | G1/8 |
| Pilot air port 14 | G1/8 |
| Pneumatic connection, port 1 | G1/4 |
| Pneumatic connection, port 2 | G1/4 |
| Pneumatic connection, port 3 | G1/4 |
| Pneumatic connection, port 4 | G1/4 |
| Pneumatic connection, port 5 | G1/4 |
| Materials note | Conforms to RoHS |
| Material seals | NBR |
| Material housing | Aluminum die cast |