

Media separated solenoid valve VYKB-F10-M22C-16-PF-5HPA

FESTO

Part number: 8122803



[PDF](#) General operating condition

Data sheet

| Feature | Value |
|---|---|
| Design | Rocker valve with diaphragm seal |
| Sealing principle | Soft |
| Material in contact with the medium | PEEK |
| Valve function | 2/2-way, single solenoid, closed |
| Nominal size | 1.6 mm |
| Flow direction | Non-reversible |
| Type of actuation | Electrical |
| Type of piloting | Direct |
| Type of reset | Mechanical spring |
| Manual override | None |
| Mounting position | Any |
| Type of mounting | Via through-hole for M2 screw |
| Electrical connection 1, connection type | Cable with plug |
| Electrical connection 1, connector system | Plug pattern HP |
| Size | 10 |
| Fluid connection | Flange |
| Medium | Liquid media Gaseous media |
| Note on the medium | Observe resistance of materials that come into contact with the media Maximum particle size 5 µm |
| Internal volume | 35 µl |
| Media temperature | 0 °C ... 50 °C |
| Media temperature for fluids | 0 °C ... 50 °C |
| Ambient temperature | 0 °C ... 50 °C |
| Storage temperature | -20 °C ... 70 °C |
| Medium pressure | -0.075 MPa ... 0.1 MPa |
| Medium pressure | -0.75 bar ... 1 bar |
| Medium pressure | -10.875 psi ... 14.5 psi |
| Overload pressure | 0.3 MPa |
| Overload pressure | 3 bar |
| Overload pressure | 43.5 psi |
| Operational voltage range DC | 12 V |
| Permissible voltage fluctuations | -5 % / +10 % |
| Characteristic coil data | 12 V DC: low-current phase 1 W, high-current phase 3.7 W |
| Duty cycle | 100% |
| Max. switching frequency | 2 Hz |

| Feature | Value |
|---|---|
| Note on switching frequency | Dependent on the ambient temperature and installation state |
| Switching time on | ≤20 ms |
| Switching time on gaseous media | ≤20 ms |
| Switching time off | ≤20 ms |
| Switching time off gaseous media | ≤20 ms |
| Standard nominal flow rate (standardised to DIN 1343) | 18 l/min |
| Note on standard nominal flow rate | In case of a pressure drop of 1 -> 0 bar (gaseous media) |
| Flow rate Kv | 0.034 m ³ /h |
| Flow rate Kv | 0.57 l/min |
| Note on flow rate Kv | For water as medium Pressure difference 1 bar |
| Symbol | 00997351 |
| Material housing | PEEK |
| Material membrane | FFPM |
| Material seals | FFPM |
| Note on materials | RoHS compliant |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Product weight | 18 g |
| Degree of protection | IP40 |
| Corrosion resistance class CRC | 0 - No corrosion stress |
| CE mark (see declaration of conformity) | To EU EMC Directive In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions |