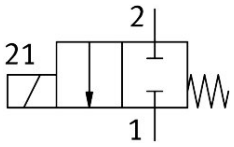
# Media separated solenoid valve
# VYKB-F10-M22C-16-PF-5HPA

Part number: 8122803






## Data sheet

| Feature | Value |
|---|---|
| Structural design | Electrical connection at side<br>Rocker valve with diaphragm seal |
| Sealing principle | Soft |
| Materials in contact with the media | FFPM<br>PEEK |
| Valve function | 2/2-way, closed, monostable |
| Nominal width | 1.6 mm |
| Flow direction | Non-reversible |
| Actuation type | Electrical |
| Type of control | directly |
| Reset method | Mechanical spring |
| Manual override | None |
| Mounting position | Any |
| Type of mounting | With through-hole for M2 screw |
| Electrical connection 1, connection type | Cable with plug |
| Electrical connection 1, connection technology | Connection pattern HP |
| Size | 10 |
| Fluid connector | Flange |
| Medium | Liquid media<br>Gaseous media |
| Information on medium | Observe resistance of materials that come into contact with media<br>Maximum particle size 5 µm |
| Internal volume | 35 µl |
| Temperature of medium | 0 °C...50 °C |
| Temperature of liquid media | 0 °C...50 °C |
| Ambient temperature | 0 °C...50 °C |
| Storage temperature | -20 °C...70 °C |
| Medium pressure | -0.075 MPa...0.1 MPa<br>-0.75 bar...1 bar<br>-10.875 psi...14.5 psi |
| Overload pressure | 0.3 MPa<br>3 bar<br>43.5 psi |
| DC operating voltage range | 12 V |

| Feature | Value |
|---|---|
| Permissible voltage fluctuations | -5% / +10% |
| Coil characteristics | 12 V DC: low-current phase 1 W, high-current phase 3.7 W |
| Duty cycle | 100% |
| Max. switching frequency | 2 Hz |
| Note on switching frequency | Dependent on the ambient temperature and installation state |
| On switching time | 20 ms |
| Switching time on gaseous media | 20 ms |
| Switching time off | 20 ms |
| Switching time off gaseous media | 20 ms |
| Normal nominal flow rate (normalized to DIN 1343) | 18 l/min |
| Note on standard nominal flow rate | At a pressure drop of 1 -> 0 bar (gaseous media) |
| Flow rate Kv | 0.034 m³/h<br>0.57 l/min |
| Note on flow rate Kv | For the medium water<br>Pressure difference 1 bar |
| Housing material | PEEK |
| Diaphragm material | FFPM |
| Seals material | 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 marking (see declaration of conformity) | As per EU EMC directive<br>As per EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions |