

Media separated solenoid valve VYKC-F16-M22C-20-PV-H2R

Part number: 8172720

FESTO



Data sheet

| Feature | Value |
|--|---|
| Structural design | Electrical connection at side Rocker valve with diaphragm seal |
| Sealing principle | Soft |
| Materials in contact with the media | FPM PEEK |
| For use in the food industry | See supplementary material information |
| Valve function | 2/2, closed, monostable |
| Nominal width | 2 mm |
| Flow direction | Reversible |
| Actuation type | Electrical |
| Type of control | Direct |
| Reset method | Mechanical spring |
| Manual override | None |
| Mounting position | Any |
| Type of mounting | With through-hole for M2.5 screw |
| Electrical connection 1, connection type | Cable with plug |
| Electrical connection 1, connection technology | Connection diagram H |
| Size | 16 |
| Width dimension | 17 mm |
| Fluid connector | Flange |
| Medium | Liquid media Gaseous media |
| Information on medium | Observe resistance of materials that come into contact with media Maximum particle size 5 µm |
| Internal volume | 110 µl valve with fl. conn. 89 µl fluid chamber valve |
| Temperature of medium | 15 °C...50 °C |
| Temperature of liquid media | 15 °C...50 °C |
| Ambient temperature | 15 °C...50 °C |
| Storage temperature | -20 °C...70 °C |
| Medium pressure | -0.075 MPa...0.2 MPa -0.75 bar...2 bar -10.875 psi...29 psi |

| Feature | Value |
|---|---|
| Burst pressure | 2 MPa 20 bar 290 psi |
| Total leakage | 4 ml/h |
| DC operating voltage range | 12 V...24 V |
| Permissible voltage fluctuations | +/- 10 % |
| Note on power consumption | Low-current phase 1.4 W, high-current phase 5.5 W for 100 ms |
| Coil characteristics | 12 - 24 V DC: Low-current phase 1.4 W, high-current phase 5.5 W |
| Insulation class | B |
| Duty cycle | 100% in combination with holding current reduction Follow the instructions on operating the air solenoid valves. |
| Max. switching frequency | 4 Hz |
| Note on switching frequency | Dependent on the ambient temperature and installation state |
| Response time "on" for liquid media | 13 ms |
| Switching time on gaseous media | 10 ms |
| Normal nominal flow rate (normalized to DIN 1343) | 55 l/min |
| Note on standard nominal flow rate | At a pressure drop of 1 -> 0 bar (gaseous media) |
| Flow rate Kv | 0.043 m ³ /h 0.72 l/min |
| Note on flow rate Kv | For the medium water Pressure difference 1 bar |
| Water flow rate at max. operating pressure | 0.064 m ³ /h 1.1 l/min |
| Housing material | PEEK |
| Diaphragm material | FPM |
| Seals material | FPM |
| Note on materials | RoHS-compliant |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Product weight | 50 g |
| Degree of protection | IP40 |
| Note on degree of protection | In mounted state |
| Application note | For indoor use only |
| Corrosion resistance class (CRC) | 0 - No corrosion stress |
| Certification | RCM compliance mark |
| CE marking (see declaration of conformity) | As per EU EMC directive As per EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |