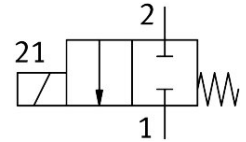


# Media separated solenoid valve VYKB-F10-M22C-16-PV-1HPS

Part number: 8122817

**FESTO**



## Data sheet

| Feature                                        | Value                                                                                           |
|------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Structural design                              | Electrical connection at top<br>Rocker valve with diaphragm seal                                |
| Sealing principle                              | Soft                                                                                            |
| Materials in contact with the media            | FPM<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                     | 24 V                                                                                            |

| Feature                                           | Value                                                       |
|---------------------------------------------------|-------------------------------------------------------------|
| Permissible voltage fluctuations                  | +/- 10%                                                     |
| Coil characteristics                              | 24 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                                 | 15 ms                                                       |
| Switching time on gaseous media                   | 15 ms                                                       |
| Switching time off                                | 15 ms                                                       |
| Switching time off gaseous media                  | 15 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                                | FPM                                                         |
| Seals material                                    | FPM                                                         |
| 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       |