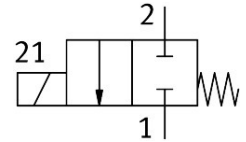


# Media separated solenoid valve VYKB-F10-M22C-16-PV-1HPS

Part number: 8122817

**FESTO**



 General operating condition

## Data sheet

| Feature                                   | Value                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Design                                    | Electrical connection at top<br>Rocker valve with diaphragm seal                                    |
| Sealing principle                         | Soft                                                                                                |
| Material in contact with the medium       | FPM<br>PEEK                                                                                         |
| Valve function                            | 2/2-way, closed, monostable                                                                         |
| Nominal size                              | 1.6 mm                                                                                              |
| Flow direction                            | Non-reversible                                                                                      |
| Type of actuation                         | Electric                                                                                            |
| Type of piloting                          | Direct                                                                                              |
| Type of reset                             | Mechanical spring                                                                                   |
| Manual override                           | None                                                                                                |
| Mounting position                         | optional                                                                                            |
| Type of mounting                          | Via through-hole for M2 screw                                                                       |
| Electrical connection 1, connection type  | Cable with plug                                                                                     |
| Electrical connection 1, connector system | Connection pattern HP                                                                               |
| Size                                      | 10                                                                                                  |
| Fluid connection                          | Flange                                                                                              |
| Medium                                    | Liquid media<br>Gaseous media                                                                       |
| Note on the medium                        | Observe resistance of materials that come into contact with the media<br>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              | 24 V                                                                                                |
| Permissible voltage fluctuations          | +/- 10 %                                                                                            |
| Characteristic coil data                  | 24 V DC: low-current phase 1 W, high-current phase 3.7 W                                            |

| Feature                                      | Value                                                       |
|----------------------------------------------|-------------------------------------------------------------|
| Duty cycle                                   | 100%                                                        |
| Max. switching frequency                     | 2 Hz                                                        |
| Switching time on                            | ≤15 ms                                                      |
| Switching time off                           | ≤15 ms                                                      |
| Flow rate Kv                                 | 0.034 m <sup>3</sup> /h                                     |
| Symbol                                       | 00997351                                                    |
| Material housing                             | PEEK                                                        |
| Material membrane                            | FPM                                                         |
| Material seals                               | 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 mark (see declaration of conformity)      | To EU EMC Directive<br>In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions       |