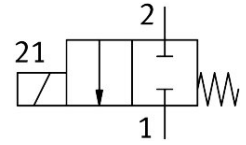


# Media separated solenoid valve VYKB-F12-M22C-20-PE-5HPS

Part number: 8140315

**FESTO**



General operating condition

## 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            | PEEK                                                                                            |
| Valve function                                 | 2/2, closed, monostable                                                                         |
| Nominal width                                  | 2 mm                                                                                            |
| Flow direction                                 | Non-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 M3 screw                                                                  |
| Electrical connection 1, connection type       | Cable with plug                                                                                 |
| Electrical connection 1, connection technology | Port pattern HP                                                                                 |
| Size                                           | 12                                                                                              |
| 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                                | 60 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 ... 0.3 MPa                                                                          |
| Medium pressure                                | -0.75 bar ... 3 bar                                                                             |
| Medium pressure                                | -10.875 psi ... 43.5 psi                                                                        |
| Overload pressure                              | 0.45 MPa                                                                                        |
| Overload pressure                              | 4.5 bar                                                                                         |
| Overload pressure                              | 65.25 psi                                                                                       |
| DC operating voltage range                     | 12 V                                                                                            |
| Permissible voltage fluctuations               | -5 % / +10 %                                                                                    |
| Coil characteristics                           | 12 V DC: low-current phase 1 W, high-current phase 5.2 W                                        |
| Duty cycle                                     | 100%                                                                                            |

| Feature                                      | Value                                                 |
|----------------------------------------------|-------------------------------------------------------|
| Max. switching frequency                     | 2 Hz                                                  |
| On switching time                            | ≤15 ms                                                |
| Switching time off                           | ≤15 ms                                                |
| Flow rate Kv                                 | 0.056 m³/h                                            |
| Symbol                                       | 00997351                                              |
| Housing material                             | PEEK                                                  |
| Diaphragm material                           | EPDM                                                  |
| Seals material                               | EPDM                                                  |
| Note on materials                            | RoHS-compliant                                        |
| LABS (PWIS) conformity                       | VDMA24364 zone III                                    |
| Product weight                               | 40 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 |