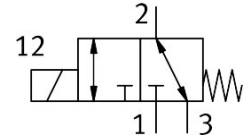


# Media separated solenoid valve VYKC-F16-M22C-16-PE-H2R

Part number: 8172715

**FESTO**



 [General operating condition](#)

## 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                   | PEEK                                                                                            |
| For use in the food industry                          | See supplementary material information                                                          |
| Valve function                                        | 2/2, closed, monostable                                                                         |
| Nominal width                                         | 1.6 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                                                                            |
| Electrical connection for input 1, connection pattern | 00995622                                                                                        |
| Size                                                  | 16                                                                                              |
| Width dimension                                       | 17 mm                                                                                           |
| 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                                       | 108 µl valve with fluid connections<br>89 µl fluid chamber valve                                |
| Temperature of medium                                 | 10 °C ... 50 °C                                                                                 |
| Temperature of liquid media                           | 10 °C ... 50 °C                                                                                 |
| Ambient temperature                                   | 10 °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                                                                        |
| Burst pressure                                        | 2 MPa                                                                                           |
| Burst pressure                                        | 20 bar                                                                                          |
| Burst pressure                                        | 290 psi                                                                                         |
| Total leakage                                         | 0.004 l/h                                                                                       |

| Feature                                      | Value                                                                                                               |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 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<br>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          | 14 ms                                                                                                               |
| Switching time on gaseous media              | 12 ms                                                                                                               |
| Standard nominal flow rate                   | 53 l/min                                                                                                            |
| Note on standard nominal flow rate           | At a pressure drop of 1 -> 0 bar (gaseous media)                                                                    |
| Flow rate Kv                                 | 0.046 m³/h                                                                                                          |
| Flow rate Kv                                 | 0.77 l/min                                                                                                          |
| Note on flow rate Kv                         | For the medium water<br>Pressure difference 1 bar                                                                   |
| Water flow rate at max. operating pressure   | 0.08 m³/h<br>1.3 l/min                                                                                              |
| Symbol                                       | 00992967                                                                                                            |
| Housing material                             | PEEK                                                                                                                |
| Diaphragm material                           | EPDM                                                                                                                |
| Seals material                               | EPDM                                                                                                                |
| 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<br>As per EU RoHS directive                                                                 |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions                                                               |