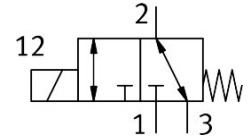


# Media separated solenoid valve VYKC-F16-M32-16-PE-H2

Part number: 817 2704

**FESTO**



## 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            | EPDM<br>PEEK                                                                                    |
| For use in the food industry                   | See supplementary material information                                                          |
| Valve function                                 | 3/2, open/closed, monostable                                                                    |
| Nominal width                                  | 1.6 mm                                                                                          |
| Flow direction                                 | 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 M2.5 screw                                                                |
| Electrical connection 1, connection type       | Cable with plug                                                                                 |
| Electrical connection 1, connection technology | Connection pattern H                                                                            |
| 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                                | 59 µl fluid chamber valve<br>94 µl valve with fl. conn.                                         |
| 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<br>-0.75 bar...3 bar<br>-10.875 psi...43.5 psi                             |

| Feature                                           | Value                                                                                                               |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Burst pressure                                    | 2 MPa<br>20 bar<br>290 psi                                                                                          |
| Total leakage                                     | 4 ml/h                                                                                                              |
| DC operating voltage range                        | 12 V...24 V                                                                                                         |
| Note on operating voltage range DC                | Holding current reduction necessary                                                                                 |
| 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               | 20 ms                                                                                                               |
| Switching time on gaseous media                   | 11 ms                                                                                                               |
| Response time "off" for liquid media              | 15 ms                                                                                                               |
| Switching time off gaseous media                  | 3 ms                                                                                                                |
| Normal nominal flow rate (normalized to DIN 1343) | 46 l/min                                                                                                            |
| Note on standard nominal flow rate                | At a pressure drop of 1 -> 0 bar (gaseous media)                                                                    |
| Flow rate Kv                                      | 0.026 m <sup>3</sup> /h<br>0.44 l/min                                                                               |
| Note on flow rate Kv                              | For the medium water<br>Pressure difference 1 bar                                                                   |
| Water flow rate at max. operating pressure        | 0.066 m <sup>3</sup> /h<br>1.1 l/min                                                                                |
| 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                                                                                             |
| CE marking (see declaration of conformity)        | As per EU RoHS directive                                                                                            |
| UKCA marking (see declaration of conformity)      | To UK RoHS instructions                                                                                             |