



## **Specifications**

**Model name : Solenoid valve**

**Model No. : SV0017-N-FKM Rev. 0**

**(double tube connector / FKM)**

Reception sign

## Custom Valves GmbH & Co. KG



|                |                  |  |   |
|----------------|------------------|--|---|
| Overview       | Drawings         | Enclosed are<br>- drawing SV0017-K4 Rev. 0   |   |
|                | Type             | Solenoid valve with two tube connectors for dialysis machines  |   |
|                | Construction     | 2/2-way<br>single chamber<br>straight valve<br>direct acting   |   |
|                | Function         | NC (normally closed)   |   |
|                | Fitting position | any  |   |
|                | Height           | <b>71 mm</b>   |   |
|                | Width            | <b>56 mm</b>   |   |
|                | Depth            | <b>36 mm</b>   |   |
|                | Life             | <b>50,000,000</b> switching cycles   |   |
|                | Valve            | Media  | <b>Water</b><br><b>Dialysis fluid</b><br><b>Sodium hypochlorite</b><br><b>Peracetic acid</b><br><b>Citric acid</b><br><b>Acetic acid</b><br><b>(also for undiluted disinfection fluids)</b> |
| T-Medium       |                  | <b>Water : 5 - 95 °C</b><br><b>Dialysis fluid : 5 - 45 °C</b><br><b>Sodium hypochlorite : 5 - 65 °C</b><br><b>Peracetic acid : 5 - 65 °C</b><br><b>Citric acid : 5 - 90 °C</b><br><b>Acetic acid : 5 - 65 °C</b> |   |
| T-Ambient      |                  | 80 °C max.   |   |
| DN             |                  | <b>3.7 mm</b>  |   |
| Kv-value       |                  | <b>2,5 l/min @ 1 bar</b>   |   |
| Viscosity      |                  | < 20 cps   |   |
| p-Operating    |                  | 3.0 bar max. from either direction   |   |
| Switching time |                  | < 30 msec  |   |
| Coil           |                  | Nominal voltages   | 24 V DC   |
|                |                  | Voltage tolerance  | ±10 %   |
|                | Duty cycle       | 100 %  |   |
|                | Nominal power    | <b>9.2 Watt</b>  |   |
|                | Protection Type  | <b>IP65 (besides the tabs)</b>   |   |
|                | Coil connections | Flat tabs 6,3 x 0,8 mm   |   |
|                | Insulation class | H  |   |

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|                         |                             |                           |
|-------------------------|-----------------------------|---------------------------|
|                         | Protection class            | III                       |
| Materials               | Valve body                  | <b>PPSU</b>               |
|                         | Bellow                      | Modified PTFE             |
|                         | Seal / Diaphragm and O-ring | <b>FKM</b>                |
| Tube nozzles connectors | In/ Out                     | See enclosed drawing      |
| ISO 10993-1             | Cytotoxicity                | <b>Pass (see Note #1)</b> |
|                         | Sensitization               | <b>Pass (see Note #1)</b> |
|                         | Irritation                  | <b>Pass (see Note #1)</b> |
|                         | Systemic toxicity           | <b>Pass (see Note #1)</b> |
|                         | Heamocompatibility          | <b>Pass (see Note #1)</b> |
| packaging               | As sea freight              |                           |
|                         | As air or land transport    |                           |

**Note #1: A test report regarding cytotoxicity can be supplied but with blackened material types because this is proprietary know how.**