# LUV-MEM MEMBRANE FILTRATION

## Microfiltration and Ultrafiltration with KLEANSEP™ ceramic modules

Inorganic (ceramic) membrane materials have already been used successfully since the mid 'eighties for the filtration and separation of liquid media. They have established themselves in many areas and applications. They represent an important link in the process chain, more particularly, when they can act through their specific material properties.



### Material properties of the modules

- Temperature resistance up to 150°C possible
- High transmembrane pressures possible
- pH range from 0 14
- High chemical stability to acids and alkalis
- Different gasket materials are available (NBR, EPDM, FPM, SILICONE)
- Different housing materials can be used (316L, 316Ti, Duplex, Hastelloy, others feasible)
- Module with up to 69 m<sup>2</sup> active membrane surface area

### **Applications**

- Food filtration
  - Protein fractionation
  - Milk sterilisation
- Chemical applications
  - Dyestuff production/separation
  - Separation of catalysts
  - Cell separation
- Wastewater treatment
  - Separation of oil/water emulsions
  - Processing of cooling lubricants

Lehmann&Voss&Co. KG Alsterufer 19 20354 Hamburg www.lehvoss-filtration.de

Creation date 15.06.2021 Contact: filtration@lehvoss.de Telephone: +49 40/44 197 233 Fax: +49 40/44 198 302

Version numbe



Page 1 of 2

# LUVO-MEM MEMBRANE FILTRATION

	Channel diameter (mm)	Membrane area	Length (mm)	External diameter (mm)	Number of channels	Code
	6	0.16	1,178	25	7	BX
$\bigotimes$	5	0.2	1,178	25	8	BE
	4.5	0.2	1,178	25	12	BD
	3.5	0.25	1,178	25	19	BW
	2.8	0.34	1,178	25	31	BH
	2.2	0.5	1,178	25	55	BC
	2	0.45	1,178	25	61	BS

### Possible membrane configurations – KLEANSEP™

#### **Cut-offs of the membranes**

Microfiltration [µm]:	1.0; 0.8; 0.45; 0.2; 0.1
Ultrafiltration [kD]:	300; 150; 50; 15
Nanofiltration [kD]:	5; 1

#### **Cooperation/Manufacturer**

The membranes are manufactured in France by the Alsys company und are very well-known and established under the name of **Orelis/KLEANSEP™**. **Orelis** is one of the leading manufacturers of ceramic membrane elements and operates all over the world with its products. Corresponding experience but also pilot plants and test centres are hence available for support in the application.

**Lehmann&Voss&Co.** represents these products in Germany and the surrounding regions.





Lehmann&Voss&Co. KG Alsterufer 19 20354 Hamburg www.lehvoss-filtration.de

Creation date 15.06.2021

Contact: filtration@lehvoss.de Telephone: +49 40/44 197 233 Fax: +49 40/44 198 302

Version number



Page 2 of 2