

FILTRATION AND SEPARATION

Membrane Technologies

Micro-, Ultra-, Nano-filtration, Reverse Osmosis



ANALYSIS



CONSULTING



MODULE MANUFACTURING



Lehmann&Voss&Co.
LEHVOSS Group

Hanseatic reliability – for more than 70 years

The internationally operating LEHVOSS Group, led by Lehmann&Voss&Co. in Hamburg, develops, produces and markets chemical, mineral and technical specialties for many different industries. In filtration and separation, we have more than 70 years of experience. Founded more than 125 years ago as a trading firm in Hamburg, our owner-managed group of companies has continuously developed into a high-performance organization – in longstanding co-operations with renowned suppliers and with own production sites in Europe, the USA and Asia.

The focus of the LEHVOSS Group is on innovative products and services for individual customer requests. With its presence on the markets around the world, the LEHVOSS Group is consistently implementing the appreciative culture of a family-owned business. One of the specialties of this company is proximity to the people which finds its expression in a trustful and reliable co-operation. Customers, business partners and employees can feel that we at the LEHVOSS Group put a lot of heart and soul into everything we do.

Because we love what we do: **We LuV it.** Since 1894.

Technical application competency for your individual solution

Filtration and separation are present in almost all industrial processes. For product improvement, purity, recovery, recycling or for the minimization or even avoidance of waste waters, these process steps make a decisive contribution to product quality and cost optimization by fulfilling these different goals.

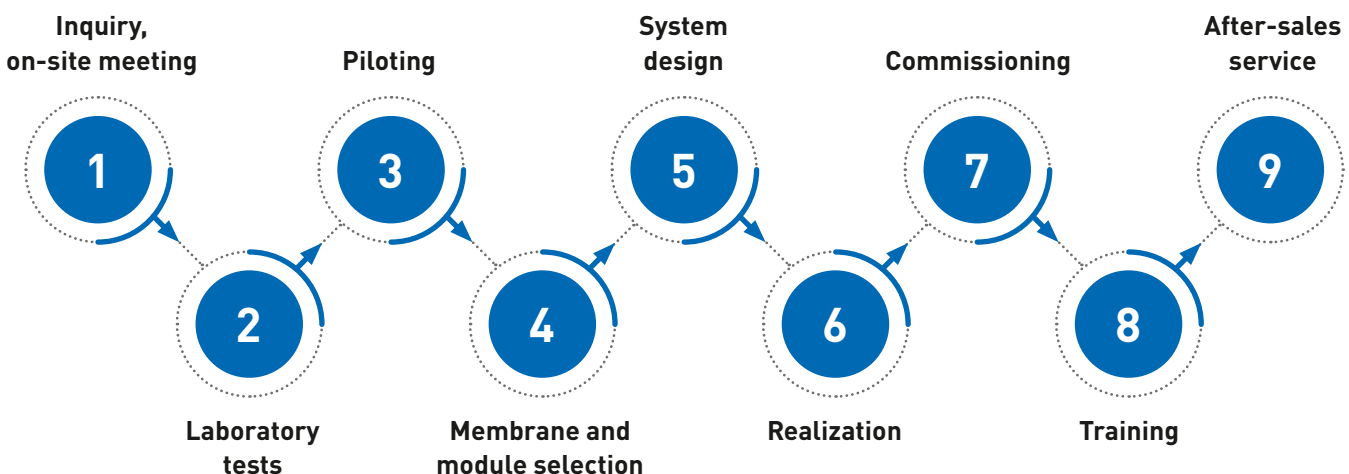
Lehmann&Voss&Co. has developed with its decades of experience in filtration and separation into a sought-after advisory partner and has established itself as a supplier of tailored solutions in many industries.

In your partnership-based co-operation with us you will benefit in the field of membrane technologies from much more than just a product offering: from design via engineering and detailed planning to the successful implementation of a technical and economic solution. Depending on the configuration, we also act as engineering partner and component supplier for plant engineering or as a partner for overall planning up to direct implementation at user sites.

Highly efficient – from the inquiry to operation

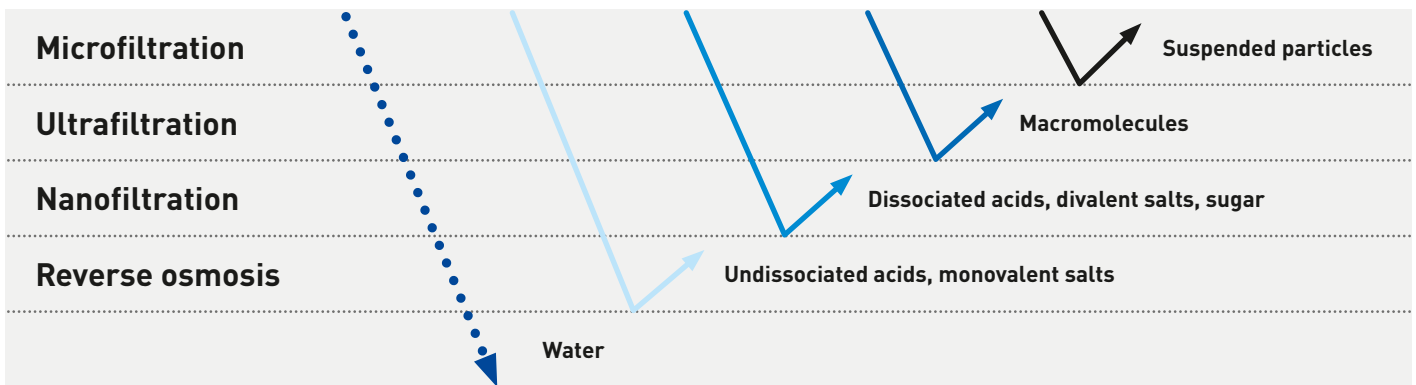
We accompany you throughout the entire realization process of a technical and economic solution. In this connection we use products which are perfectly suited for your requirements and, in addition, take over the appropriate plant design for the implementation of the individual solution. We will be pleased to support you, if necessary, at the installation and commissioning of the plant components or the complete systems. On request, we also take over the instruction and training of your staff.

After the implementation we supply of course the necessary consumables for the ongoing operation and support you at the adaptation of the filtration and separation technology to changed process conditions. Please contact us with your concrete requirements. We will be pleased to help you find an appropriate solution for your application.



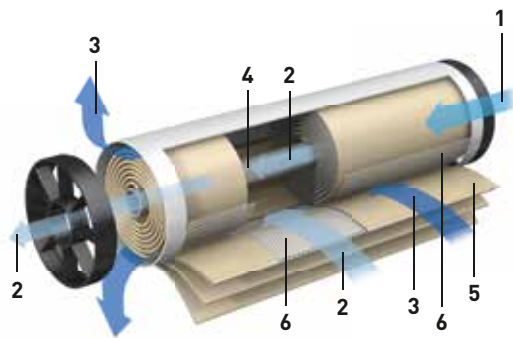
All possibilities of the membrane technology

As supplier, service provider and application technology adviser in membrane technology we cover the entire range of filtration and separation:



We manufacture for your concrete requirements

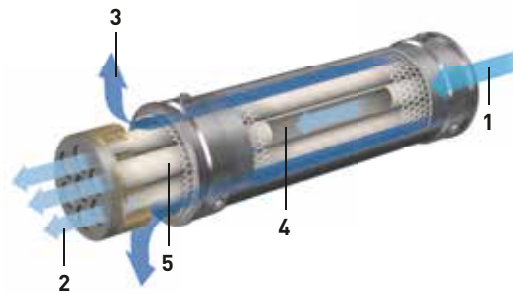
Spirally wound membrane modules



Schematic representation of a spirally wound membrane module

1. Feed (raw solution)
2. Permeate (filtrate)
3. Retentate (concentrate)
4. Permeate collecting pipe
5. Membrane envelope
6. Spacer

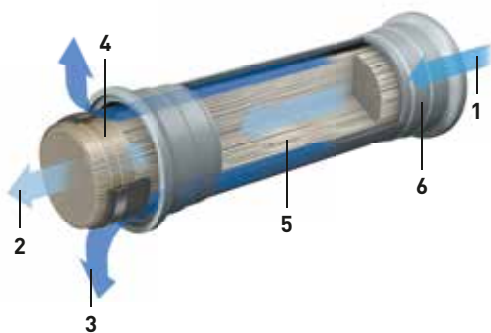
Tubular modules



Schematic representation of a tubular module

1. Feed (raw solution)
2. Permeate (filtrate)
3. Retentate (concentrate)
4. Permeate collecting pipe
5. Membrane

Hollow-fiber modules



Schematic representation of a hollow-fiber module

1. Feed (raw solution)
2. Permeate (filtrate)
3. Retentate (concentrate)
4. Framed section
5. Hollow-fiber membrane bundle
6. Casing

As an alternative to own manufacturing, we can also realize technical solutions with membrane modules of our partners selected by us:

Spirally wound and hollow-fiber modules

KLEANSEP™ ceramic membranes and modules

PermaFlow™ and PermaFlux™
Tubular modules with polymer tubular membranes

Our products at a glance

Components and complete solutions
for filtration and separation

- **Filter cartridges**
 - Depth filtration cartridges – nominal and absolute micron rating
 - Yarn-wound cartridges
 - Melt-blown cartridges
 - Resin-bonded glass-fiber filament cartridges
 - Pleated depth filtration cartridges
 - High-performance depth filtration cartridges
 - Membrane filter cartridges – absolute micron rating for liquid, gas, air filtration, disinfection, sterile filtration, aeration, ventilation
 - Activated carbon filter cartridges (activated carbon granulated or block)
 - Stainless steel filter cartridges
- **Cartridge filter housings, cartridge filter systems**
of food, pharmaceutical and industry grade, also complete with accessories pre-assembled
- **Filter bags**
 - Depth filtration media (needle felts) and fabrics (nylon monofilament) – nominal micron rating
 - High-performance filter bags – absolute micron rating
- **Bag filter housings, bag filter systems**
of food, pharmaceutical and industry grade, also complete with accessories pre-assembled
- **Membrane modules**
 - MF, UF, NF, RO modules
- **Cross-flow filtration systems**
Completely pre-assembled incl. pressure tubes, end caps and accessories
- **Solutions for specific applications / customers**
 - Multistage systems
 - Completely pre-assembled incl. accessories
 - Also comprising combinations of the above-mentioned components
 - Also incl. automatic filters or strainers for solid-liquid separation
- **Filter media as rolls for further manufacturing**
(glass fiber, glass microfiber, non-woven, woven fabric)
- **Filter aids**
 - Diatomaceous earths and perlites
 - Celluloses
 - Activated carbons
 - Specific application mixtures



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