ADVANTAGES IN GENERAL
- Long working life
- Improved product quality
- Slight cloth strain
- Excellent washing
- Good heat insulation
- Easy cleaning
- Light weight

ADVANTAGES OF COMPRESSION- (MEMBRANE) PLATE
- Short filtration cycles
- Efficient particle retention
- Low residual moisture
- Exchangeable membrane
- No direct load on membrane due to press closing force
- High viscosity of membrane
- No problems during membrane movement even in the empty chamber
- Time-independent membrane movement
- Sealing of filter plate system
- Big cross area of filtrate outlet
- Many fields of applications
- Safety factor of the membrane system

SPECIAL DESIGN
Based on high quantities it is possible to consider special designs and dimensions if required by customer.

Higher filtration pressures up to 60 bar based on special designed chamber plates and compression chamber plates.

For sewage water filtration conditioned by polymers outlet ports with large diameter for easy drain off.

For filtration of organic solvents and for high temperature filtrations we recommend as material aluminium or PVDF instead of polypropylene.

ACCESSORIES
- Membranes: Inflatable rings, McKenzine- and filter cloth clamping rings
- Locking units: Luer pipes
- Handles, taps
- Orings
- Threaded inserts
- Pins for filter cloth
- Sandblasts

SERVICE
Our experts will serve and support you at:
- Installation and start-up of the JVK filter elements
- Calculation and design for special applications
- Calculations
- Efficiency tests
- Process optimization

COMPANY PROFILE
In the year 1962 Messrs. JOH. JAC. VOWINCKEL GmbH acting as the first and eldest enterprise in this field of application started with the production of filter elements made of polyolefin. Until today filter plates manufactured at this time are still in operation.


In 1989 JVK purchased competitors HANSEN BTR. Membrane-chamber plates with exchangeable rubber membranes completed now the JVK product line.

In 1992 JVK increased the production capacity by taking over the production facilities for filter plates from a well known manufacturer of filter presses.

JVK is offering since almost 45 years highest technical standard and know-how as well as long experience in thermoplastic processing and solid-liquid-separation.

JVK is one of the biggest private enterprises manufacturing filter elements from thermoplastics and other materials which are well known and successfully used worldwide.

Equipment and machines as high technical standard for the production of filter elements according to DIN 7129 and for special designs in thermoplastics and other materials are available:

Presses for production of filter plates according to the ICM – process which was developed by JVK up to sizes of 2500 x 3000 mm and to a thickness of 200 mm with the following advantages:
- Homogenous material, one piece moulded without welded connections and inserts
- Minimal thermal load during production
- Uniform distribution of microcrystallites
- Slightest internal tensions
- Excellent mechanical properties
- Chemical resistance

CNC routers up to a size of 2500 x 3000 mm for the mechanical treatment grant maximum accuracy for small and large series production.

For sewage water filtration conditioned by polymers outlet ports with large diameter for easy drain off.

Construction of JVK compression chamber plate is protected by worldwide patents and registered utility models.

JVK produces all standard sizes and special designs. For details of size, design, cake thickness, filter area, chamber volume etc. of JVK filter elements please check our website.
APPLICATIONS

WASTEWATER / SEWAGE PLANTS
wastewater treatment for: original water purification for potable water
dewatering and decontamination of industrial and municipal wastewater:
sewage from dust scrubbers handsome and textile sewages
coal and ore suspensions from flotation processes
metal hydride sludge (light metals)
drilling water of oil rigs

CHEMISTRY
manufacturing of rubber products and organic dyes
filtration of phosphoric compounds and ferments during the production of wetting, washing and cleaning agents, chemical intermediates products and fibers e.g.
caustic, aluminium oxide, activated clay etc.
chlorine-electrolysis, filtration of brines to produce chlorine, sodium hydroxide, zeolite etc.

PHARMACEUTICALS
extraction and washing of intermediate products with sterilization at temperatures up to 100°C filtration of blood plasma, syrup etc.

BIOENGINEERING
filtration of blood plasma and other substances not allowed to get in contact with bacteria.

FOOD
production of soup, soup flavors, rice noodles, sugar, vegetable oil, palm oil, wine, yeast, starch, gelatine, beef, agar-agar etc.

CERAMICS
dewatering of caolin, chalk, clay, porcelain and ceramic bulk

METALLURGY
filtration of metallic salt solutions serving as first step of electrolysis when refining nickel, copper, silver, gold and uranium and by products as molybdenum, electrolytic reprocessing of metals, reprocessing of batteries

PAPER INDUSTRY
centrifugation of water and fibers etc.

SYNTHETIC FIBERS
spinning fibers, filtration of viscose