FILTER LEAVES

The most important part of a pressure leaf filter is the leaf. Without a good quality leaf your filter will not be able to operate according to your requirements. Depending on your requirements and application, we can supply different types of leaves.

At Twin Filter we manufacture two types of leaves; the Shingle key ring Channel filter leaf and the Key Hole Channel filter leaf. All leaves can be manufactured from various materials, such as: 316 SS or special alloys.

The Key Hole Channel filter leaves consists of several layers of wire mesh. The 11 mesh leaves have a v-notch for the discharge of the filtrate and for the support of the other layers. The design allows a full flow with minimum restriction. The leaves are available in bolted or riveted construction.

Our Key Hole Channel leaves provide an efficiency of up to 80% and a life time up to 20 years. These leaves are constructed of Key Hole Channel leaves, with support in the v-notch designed for low pressure drop. The Filter leaves are connected with interchangeable V-flanges, bolted to the frame. The leaves can be re-meshed on site.

The Key Hole Channel leaves are custom made and suitable for various industries including Oil & Gas, Chemicals, Paper & pulp, Food & Beverage, etc.

APPLICATIONS

Twin Filter provides filtration solutions and service for:

- Completion / Gravel Pack fluids
- Produced Water
- Water Injection
- Produced Fluids
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Twin Filter Vertical Leaf Filters are high-quality systems that can be used for numerous batch and continuous filtration processes. The systems consist of a number of vertical filter leaves positioned in a horizontal or vertical filter tank. The leaves can be withdrawn through the filter leaves with respect to both sides of the filter leaf. The collected cake remains on the filter medium as filter cake.

Vertical Leaf Filters have a high filtration area versus vessel volume ratio. This results in a relatively low initial investment. The pressure leaf filter is typically suitable for fluids with high solid contents.

Vertical Leaf Filters are easy to maintain. They contain almost no moving parts, and the filter leaves can be quickly and easily removed and replaced by spares.

Horizontal and Vertical Tank

Two Filter Horizontal and Vertical Leaf Filters are suitable for wet and dry cake discharge.

Pressure leaf filters with vertical tank lay-out have the benefit of requiring little floor space. This type of PLF can have up to 120m² of filtration area. The PLF with horizontal tank lay-out can be equipped with more filter leaves for larger filtration areas. The horizontal tank lay-out can also have the filtration leaves be accessible during cake discharge.

Dry Cake Discharge

Filters with a dry cake discharge are equipped with a pneumatic vibrator. The cake is discharged through a conical bottom with butterfly valve. In case of a horizontal tank, the tank is retractable leaving the leaves exposed. The filter cake can be dried by compressed air, inert gas or steam before discharge.

Wet Cake Discharge

Wet cake will be discharged using a built-in spray pipe at the top of the vessel. The cake will be sprayed off, resulting in a slurry which is discharged through the large tank bottom drain. Multiple spray pipes can be installed in one filter, each holding a number of spray nozzles.

Applications

- Aluminates
- Amines
- Animal Fat
- Biogas
- Citric Acid
- Crude Oil
- Fatty Acid
- Food
- Gelatine
- Glucose
- Nickel Catalyst
- Phosphatation GRE Washing
- Paraffin Wax
- Petrol
- Resins
- Soap Salt
- Sulphur
- Water Glass
- Winterization

Standard Design Features

- Minimal filter gaps for vertical tank lay-out
- Large filtration surface for horizontal tank lay-out
- Resin impregnated filter leaves
- Totally enclosed construction
- Automatic, semi-automatic or manual cake discharge
- Rigid design

Overview

Twin Filters drive for innovation resulted in the improved leaf nozzle design. Our team of engineers developed a casted and machined version of the nozzle. This design allows a higher drying gas flow, which ensures the filter cake to be dryer and a minimum loss of fluid.

Easy Maintenance

Vertical Leaf Filters are easy to maintain. They contain almost no moving parts, and the filter leaves can be quickly and easily removed and replaced by spares.

Flexibility in Application and Operation

The filter leaves can be used for short batches or as continuous work. The filter leaves can be covered with filter cloth. In combination with up to 120 filter leaves, the area can be extended up to 1200m².

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Filter leaves with a dry cake discharge are equipped with a pneumatic vibrator. The cake is discharged through a conical bottom with butterfly valve. In case of a horizontal tank, the tank is retractable leaving the leaves exposed. The filter cake can be dried by compressed air, inert gas or steam before discharge.

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Wet cake will be discharged using a built-in spray pipe at the top of the vessel. The cake will be sprayed off, resulting in a slurry which is discharged through the large tank bottom drain. Multiple spray pipes can be installed in one filter, each holding a number of spray nozzles.

Overwiew
Twin Filter Vertical Leaf Filters are high-quality systems that can be used for numerous batch and continuous filtration processes. They consist of a number of vertical filter leaves positioned in a horizontal or vertical filter tank. The leaf form is essentially the same on both sides of the leaf. The compacted cake remains on the filter medium as a filter cake.

Vertical Leaf Filters have a high filtration area versus vessel volume ratio. This results in a considerable savings in vessel volume. The pressure leaf filter is typically suitable for fluids with high solid contents.

Twin Filter Horizontal and Vertical Leaf Filters are suitable for wet and dry cake discharge.

FLEXIBILITY IN APPLICATION AND OPERATION

The filter leaves can be used for short filtration on two occasions and for longer filtration the leaves can be covered with filter cloth. The construction can be extended to make it possible to alter the leaves for use in the horizontal. Also possible in combination with body foul.

Dry cake discharge

Filter leaves in a dry cake discharge are equipped with a pneumatic vibrator. The cake is discharged through a conical bottom with butterfly valve. In case of a horizontal tank, the tank is retracted leaving the leaves exposed. The filter cake can be dried by compressed air, inert gas or steam before discharge.

Wet cake discharge

Wet cake will be discharged using a spray pipe at the top of the vessel. The cake will be sprayed off, resulting in a slurry which is discharged through the large tank bottom drain. Multiple spray pipes can be installed in one filter, each holding a number of spray nozzles.

APPLICATIONS

• Aluminate
• Ammonia
• Animal Fat
• Bitumen
• Citric Acid
• Crude Oil
• Fatty Acid
• Fishmeal
• Gelatine
• Glucose
• Nickel-Catalyst
• Hydrogenation Oil/Bleaching
• Paraffin Wax
• Pectin
• Resins
• Soya Sauce
• Sulphur
• Water Glass
• Winterization

OVERVIEW

HORIZONTAL AND VERTICAL TANK

Two filter horizontal and vertical leaf filters are suitable for wet and dry cake discharge.

Two filter horizontal and vertical leaf filters are suitable for wet and dry cake discharge.

STANDARD DESIGN FEATURES

• Minimal filter space for vertical tank layout
• Large filtration surface for horizontal tank layout
• Automatic, semi-automatic or manual cake discharge
• Rigid design

WIRE MESH

The selected filter mesh depends on the application. The mesh size and material selection can be tailored for any filtration process. The aggregation of very small solids to resilient meshes as well as loose operating and maintenance costs is better in the mesh-knot mesh size.
**APPLICATIONS**

- Aluminates
- Amines
- Animal Fat
- Biodiesel
- Citric Acid
- Cruise ship
- Dairy Acid
- Filter Aid
- Gelatine
- Gum Arabic
- Nickel Catalyst
- Polymeric Resin/EPM Flexing
- Paraffin Wax
- Pectin
- Resin
- Sulphur
- Water Glass
- Winterization

**STANDARD DESIGN FEATURES**

- Minimal filter area for vertical tank layout
- Large filtration surface for horizontal tank layout
- Associated valve when required
- Totally enclosed construction
- Automatic, semi-automatic or manual cake discharge
- Rigid design.

**EASY MAINTENANCE**

Vertical Leaf Filters are easy to maintain. The cakes almost no moving parts, and the filter leaves can be quickly and easily removed and replaced by spares.

- Minimal floor space for vertical tank layout.
- Large filtration surface for horizontal tank layout.
- Retractable tank when horizontal.
- Totally enclosed construction.
- Automatic, semi-automatic or manual cake discharge.
- Rigid design.

**HORIZONTAL AND VERTICAL TANK**

Two Filter Horizontal and Vertical Leaf Filters are suitable for wet and dry cake discharge.

Dry Cake Discharge: Filter leaves are equipped with a pneumatic vibrator. The cake is discharged through a conical bottom with butterfly valve. In case of a horizontal tank, the tank is retractable leaving the leaves exposed. The filter cake can be dried by compressed air, inert gas or steam before discharge.

Wet Cake Discharge: Wet cake will be discharged using a built-in spray pipe at the top of the vessel. The cake is sprayed off, resulting in a slurry which is discharged through the large tank bottom drain. Multiple spray pipes can be installed in one filter, each holding a number of spray nozzles.

**OVERVIEW**

Twin Filter Vertical Leaf Filters are high-quality systems that can be used for numerous batch and continuous filtration processes. The system consists of a number of vertical filter leaves positioned in a horizontal or vertical filter tank. Pressure leaf filters with vertical tank lay-out have the benefit of requiring less filter space. The type of PLF can be up to 50% of filtration area. PLF with horizontal tank lay-out can be equipped with even more filter area. With a horizontal tank lay-out the filtration area can be increased during cake discharge.

**FLEXIBILITY IN APPLICATION AND OPERATION**

The filter leaves can be used for both horizontal or vertical tank layout. For horizontal, the leaves can be covered with filter cloth. In combination with filter cloth, the leaves can be used for the filtration of high temperature for the hot. Slurry. Also possible in combination with body lining.

**APPLICATIONS**

- Aluminates
- Amines
- Animal Fat
- Biodiesel
- Citric Acid
- Cruise ship
- Dairy Acid
- Filter Aid
- Gelatine
- Gum Arabic
- Nickel Catalyst
- Polymeric Resin/EPM Flexing
- Paraffin Wax
- Pectin
- Resin
- Sulphur
- Water Glass
- Winterization

**STANDARD DESIGN FEATURES**

- Minimal filter area for vertical tank layout.
- Large filtration surface for horizontal tank layout.
- Automatic, semi-automatic or manual cake discharge.
- Rigid design.
Q U A L I T Y  F I L T E R  L E A V E S

F I L T E R  L E A V E S

The most important part of a pressure leaf filter is the leaf. Without a high quality filter leaf your filter will not be able to operate according to your requirements. Depending on your requirements and application we can supply different types of leaves.

At Twin Filter we manufacture two types of leaves, the omega key hole channel filter leaf and the rigid filter leaf. All leaves are manufactured from various materials, such as SS 316 or special alloys.

The omega key hole channel filter leaves consist of several layers of wire mesh. The inner layers have a coarse mesh for the discharge of the filtrate and for the support of the same layers. The design allows for full flow with minimal restriction. The leaves are available in bolted or pivoted construction.

Our rigid filter leaf is made durable with a life time of up to 25 years. These leaves are constructed of full passing metal sheets, with support in between designed for low pressure drop. The front side sheets are coated with replaceable media, coated for the leaves. The filter leaves can be re-meshed on site.

If your requirements, for example for chemical resistance, need special media like perforated holes or coated openings, do not hesitate to let us know. We are happy to discuss which specifications your leaves ought to have for achieving the filtration results.

Synthetic leaves are available in polypropylene, PTFE or other materials on request and coated with synthetic filter media. The filter case is discharged as a wet cake.

A P P L I C A T I O N S

Twin Filter provides filtration solutions and service for:

• Completion / Gravel Pack Fluids
• Produced Water
• Gas
• Sulphur
• Chemical Injection
• Amine and Glycol
• RO Pre-Filtration
• Bilge Water
• Pipeline Flushing
• Powder Handling
• Fuel
• Oily Water
• Waste Water
• Pharmaceutical filtration

P R E S S U R E  V E S S E L  C O D E  A N D  I N S P E C T I O N S

Design code according to PED 97/23/EC and ASME VIII div. 1, with option “U” stamp.

O P T I O N S

Optional equipment includes: heating or cooling jackets, separate demister, stern connections, framing, air and other accessories available on request.

F I T T I N G S

Standard 4 inch connections according to PN 16 and ANSI B16.5.

V E R T I C A L  L E A F  F I L T E R S

As of the 1st of November 2012, Twin Filter has become part of Parker Hannifin Corporation. Twin Filter has a strong strategic focus on the oil gas industry and through the addition of Twin Filter becomes a global leader. However, we assure that all Twin Filter customers will continue receiving our high quality standards of service and solutions.

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Fax: +31 (0)75 6555015
info@twinfilter.com
www.twinfilter.com

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Tel: +1 713 691 2800
info.usa@twinfilter.com
www.twinfilter.com

Passion for Filtration
CONSTRUCTION MATERIALS

Standard construction material of the leaves is stainless steel. Standard construction material of the vessel is carbon steel or stainless steel, depending the application. Gaskets and valve seals can be supplied in many different materials like; NBR, EPDM, PTFE, etc.

OPERATING CONDITIONS

The design pressure is 6 or 7 bar(g), with a design temperature of 150°C or 90°C. The maximum allowable pressure drop is 4 bar.

OTHER DESIGN CONDITIONS AVAILABLE ON REQUEST.

FITTINGS

Standard flanged connections according EN1092-1 and ASME B16.5.

PRESSURE VESSEL CODE AND INSPECTIONS

Design code according PED97/23/EC or ASME VIII div. 1, with optional “U”-stamp.

OPTIONS

Optional equipment includes: heating or cooling jackets, segment clamp bolted or hydraulic operated quick opening covers, pumps, pre-coat tanks, interconnecting piping etc.

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The Omega key hole Channel filter leaves consist of several layers of wire mesh. The inner layers have a coarse mesh for the discharge of the filtrate and for the support of the outer layers. This design allows a full flow with minimum restriction. The leaves are available in bolted or riveted construction.

Our Rigid filter leaf is extra durable with a lifetime up to 20 years. These leaves are constructed of thin perforated sheets, with support channels designed for low pressure drop. The perforated sheets are covered with replaceable mesh, bolted to the frame. The filter leaves can be re-meshed on site.

If your requirements, for example for chemical resistance, need special media like laser perforated holes or etched openings, do not hesitate to let us know. We are happy to discuss which specifications your leaves ought to have to optimize the filtration results.

SYNTHETIC LEAVES

FILTER LEAVES

As of the 1st of November 2012, Twin Filter has become part of Parker Hannifin Corporation. Parker Hannifin has a strong strategic focus on the oil & gas industry and through the addition of Twin Filter becomes a global leader. However, Parker Hannifin is also of great value for expanding the Twin Filter process and food & beverage markets.

Both Parker and Twin Filter offer a wide range of filtration products for many industries including filters and filter vessels, compression on pumps, hydraulic filters, fuel handling products and intergration of systems. In addition to filtration, Parker offers many other products for the oil & gas industry such as instrumentation and hose connecters.

Twin Filter operates globally through a network of over 50 service centers and sales offices and has a strong presence in all regions. This guarantees immediate service for its customers all over the world.

We assure that all filter leaf customers will continue receiving our high quality standards of service and solutions.

APPLICATIONS

Twin Filter provides filtration solutions and services for:

- Completion / gravel pack fluids
- Produced water
- Gas separation
- Drilled fluids and completion fluids
- High pressure applications
- Offshore
- Alkali tolerant
- Chemical resistant
- High temperature
- Hydraulic systems
- Powder handling
- Water treatment
- Oil pre-filtration
- Gas
- Saltwater
- Food & Beverages
- Pharmaceutical filtration

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- Oil pre-filtration
- Gas
- Saltwater
- Food & Beverages
- Pharmaceutical filtration

TWIN FILTER

As of 1st November 2012, Twin Filter has become part of Parker Hannifin Corporation. Parker Hannifin has a strong strategic focus on the oil & gas industry and through the addition of Twin Filter becomes a global leader. However, Parker Hannifin is also of great value for expanding the Twin Filter process and food & beverage markets.

Both Parker and Twin Filter offer a wide range of filtration products for many industries including filters and filter vessels, compression on pumps, hydraulic filters, fuel handling products and intergration of systems. In addition to filtration, Parker offers many other products for the oil & gas industry such as instrumentation and hose connecters.

Twin Filter operates globally through a network of over 50 service centers and sales offices and has a strong presence in all regions. This guarantees immediate service for its customers all over the world.

We assure that all filter leaf customers will continue receiving our high quality standards of service and solutions.

APPLICATIONS

Twin Filter provides filtration solutions and services for:

- Completion / gravel pack fluids
- Produced water
- Gas separation
- Drilled fluids and completion fluids
- High pressure applications
- Offshore
- Alkali tolerant
- Chemical resistant
- High temperature
- Hydraulic systems
- Powder handling
- Water treatment
- Oil pre-filtration
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