

Filtering Ideas, Making Innovations



apexfil[®]
Filtração Industrial

Company

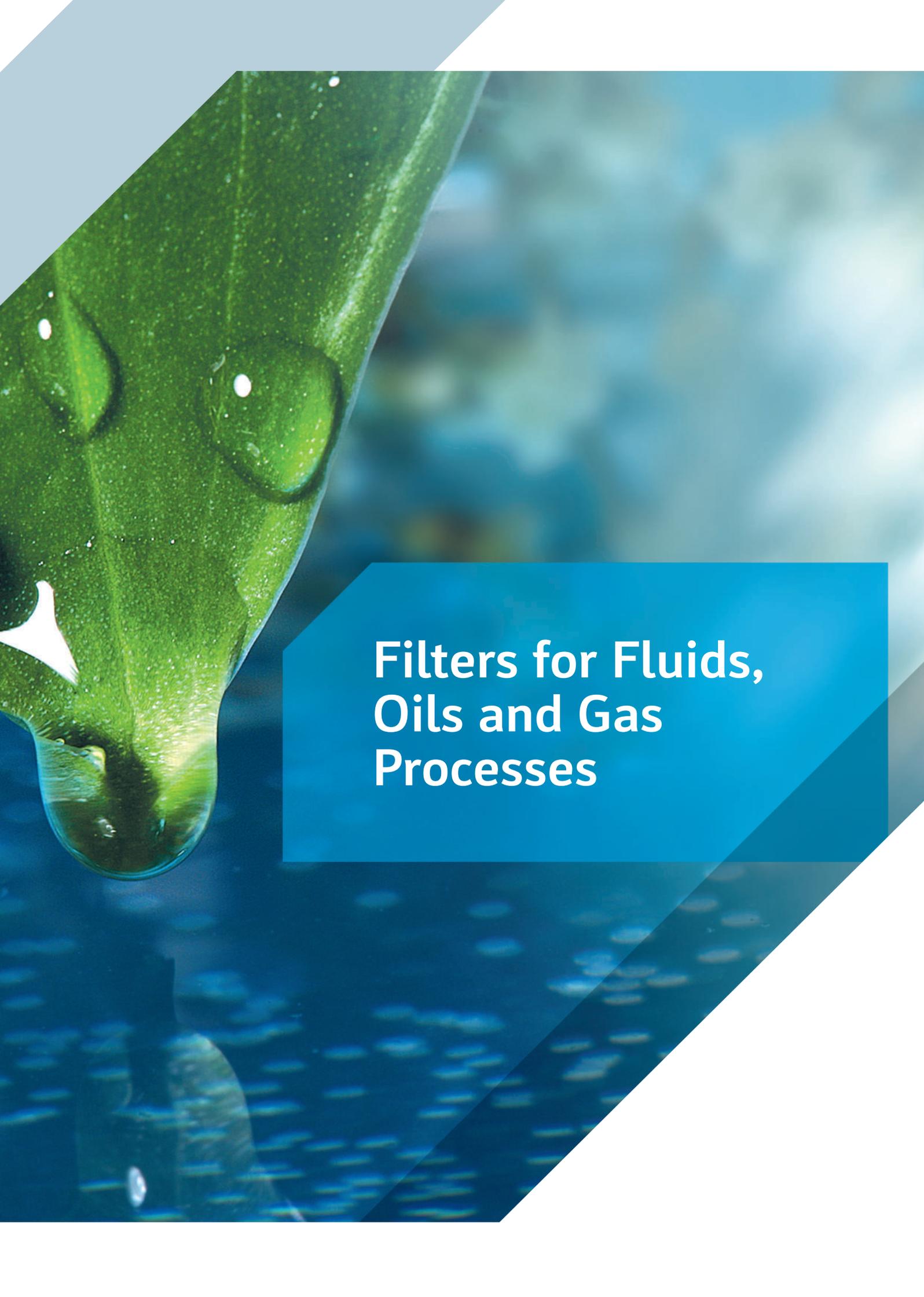
WHO WE ARE

Apexfil is a company whose technology was developed for perfect performance in filtration market for hydraulic lubrication systems, refrigeration, air suction, clarification of liquids, natural gas, LPG, oil and different processes.

Always searching for new Technologies, national and international partnerships, expanding our product line and always offering new products manufactured within the standards of quality.

With new headquarters in the city of Atibaia, we rely on modern facilities and the possibility of developing new products and new applications. Our team is able to meet any needs of the filtration segment for your company.





Filters for Fluids, Oils and Gas Processes

Coalescer Filter

Solid particles and liquid aerosols and oils in any condensed gas line causing serious problems for equipment such as compressors and instrumentation.

To solve such problems Apexfil provides a complete line of coalescing filters to remove solids and liquids from the gas stream using single or multiple filter stages according to customer need.



Pressure Vessel

The pressure vessel is an equipment that contains pressurized fluid for both filtration and storage.

Apexfil pressure vessels are designed in accordance with ASME VIII div. 1 and NR-13, attending several classes of pressures.

They are used in many applications, for removal of contaminants from liquid and gaseous fluids



Process Filter

When the final product requires a filtration system is named process filter.

These filters are important to ensure the final quality of the product.

They are usually made of stainless steel and feature elements with a wide range of retention reaching absolute filtration.

Simplex Filters

Apexfil Simplex filters are used for protection of equipment or for final process. This type of filter contains one or more filtering elements type basket or cartridge, with nominal or absolute retentions. Can be manufactured using quick opening system that facilitates the maintenance of the filter.



Duplex Filter

Apexfil Duplex filters are applied for the protection of equipment or for final process. We manufacture filters type basket or cartridge type with one or more filtering elements, depending on your application.

Can be manufactured with quick opening system, its construction provides continuous filtration process without having the need to stop the system. It has a by-pass system, with independent valves or double body.



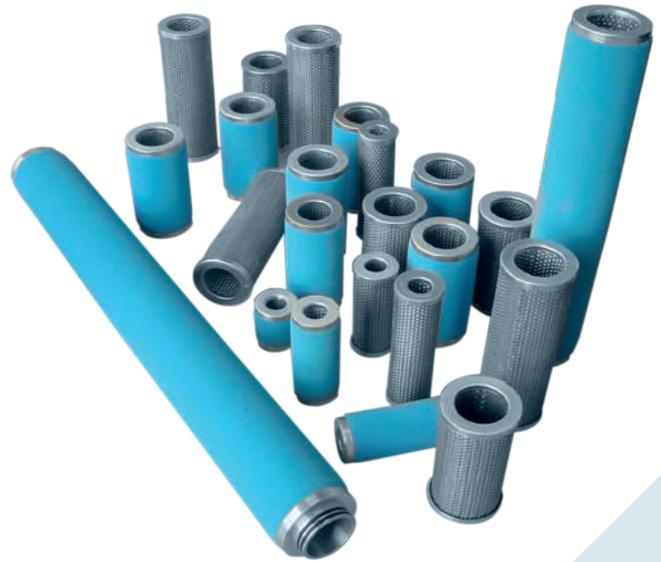
Self-Cleaning Filter

With the need to create a continuous process operation, self-cleaning filters self-cleaning process guarantee Apexfil without interrupting the flow of the fluid. It is a filter of easy operation, low maintenance and a great cost benefit to the final process. Contains a command panel, automating the operation according to the need of each process

Compressed Air Treatment /Coalescent

Direct substitution of filling Snow Flake. This filling plastic is made by Apexfil offers high efficiency in the absorption, stripping gas and washing water treatment.

Its design is designed to work with very low pressure drop compared to conventional plastic fillings without affecting efficiency.



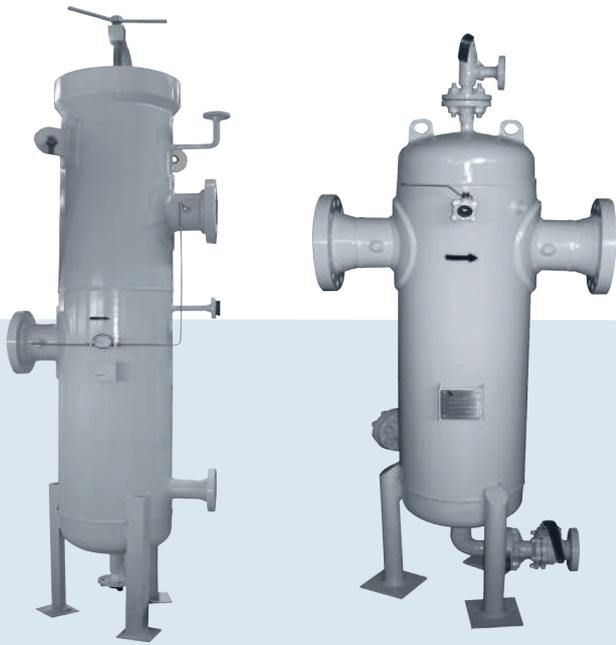
Filter Bag

Filters type bag, also known as Apexfil's bag filters are ideal for an efficient filtering with a very competitive cost.

These filters are designed and manufactured using stainless steel 304 and 316. They also could have finish and sanitary connections.

The filter system consists of 3 parts:

- The filter or pressure vessel;
- Basket or support;
- Bag or filter bag.



Cyclone and Cyclone Filter Combined

Cyclonic separators, filters, has as its principle of operation the centrifugation. In the case of the cyclone, operates with a stage of filtration and the cyclone combined with a pre and the second stage cyclonic filtration with the separation of solid particles and liquid particles from gas stream by means of a cartridge.

They are designed and constructed in accordance with ASME VIII DIV1 and given different NR13 pressure.

Hydraulic Filter

Apexfil have a line for Hydraulic Filters that meet the most critical conditions, appropriate to each operating system, looking for offer competitive advantages to our customers, fighting the contaminants, reducing maintenance costs, hours of machine stops and thus increasing productivity and useful life of the equipment.

Filters for hydraulic systems Apexfil are applied in the suction line, pressure and return of reservoirs.



Y Strainer, T and Mini T

Constructed in cast carbon steel ASTM A 216 Gr. WCB; Y filters are applied in steam lines, gases or liquids. The filtering elements are manufactured in stainless steel (AISI 304) drilled and removable for cleaning, with flanged ends and standard ANSI B 16.5.

Mini T, filters are made of malleable cast iron (GGG40) and possess paper cartridges



The background image shows a large industrial plant with several tall distillation columns and a complex network of pipes and metal walkways. In the foreground, two workers are visible. The worker on the left is wearing a dark blue jacket with a red collar and a yellow handheld device clipped to his chest. The worker on the right is wearing a white hard hat and a dark jacket. A semi-transparent blue banner is overlaid across the middle of the image, containing the title text.

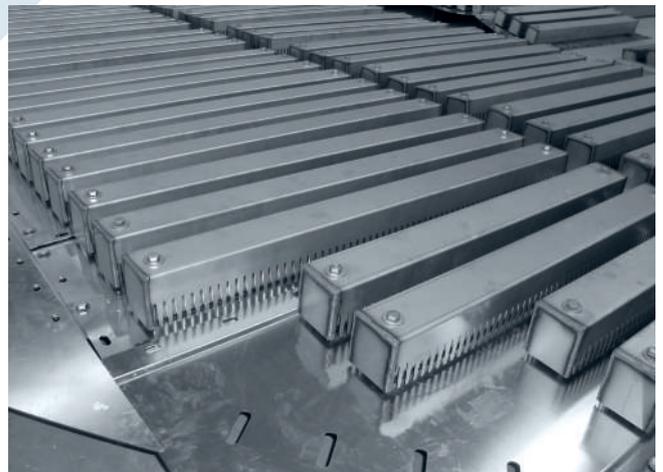
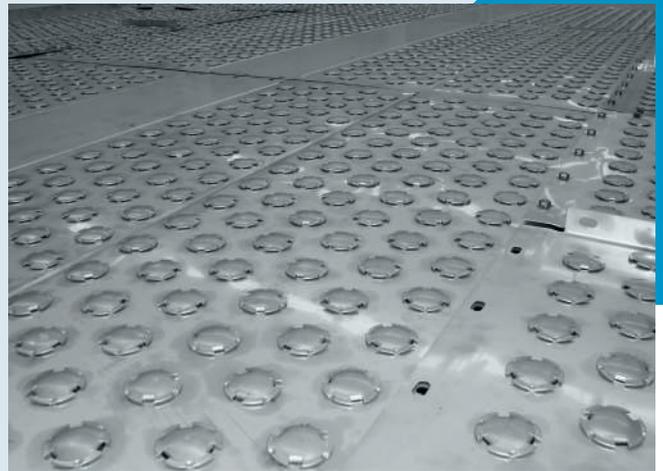
Processes, Internal and Columns of Fillings

Trays

Apexfil's trays are internal process towers devices that aims to increase the contact gas / liquid.

Its function is to improve the mass transfer through the vapor passage through the liquid phase. It May contain valves, bubblers or holes.

They are made of carbon steel, stainless steel or any other alloy material. Consult our engineering department.

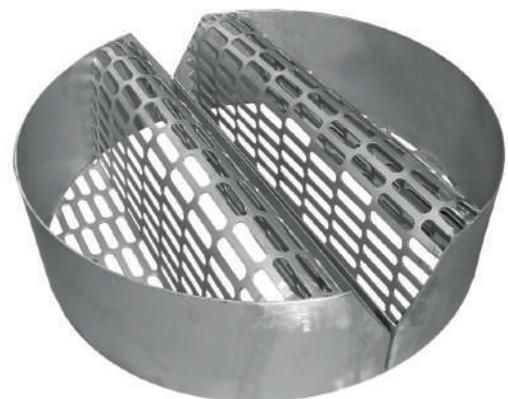


Distributor and Redistributor

The distribution of liquid through the column is critical to the performance of beds filled directly influences the efficiency of the process. Its function is to distribute the liquid constant and uniform manner to ensure that the entire surface area of the filling is covered with liquid.

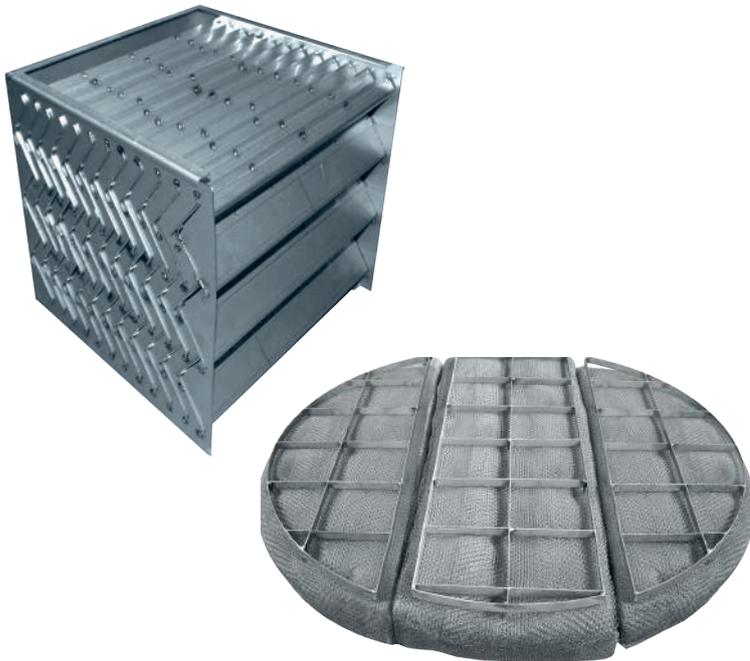
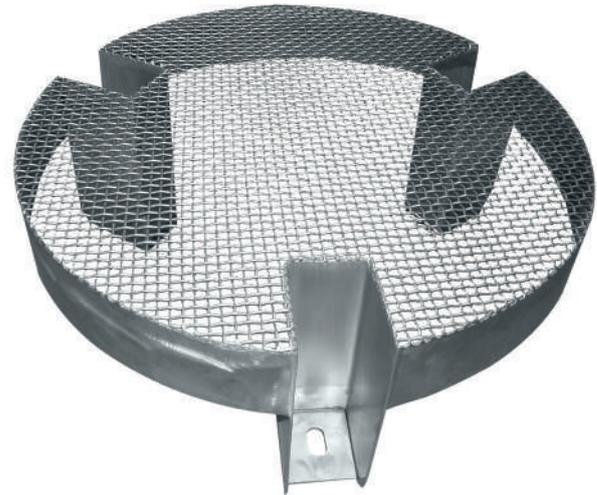
Supporters

Aims to support the weight of the packed bed and other charges stemmed from equipment operation, without compromising the area of the passage of gas, liquid and hydraulic system.



Limiter Beds

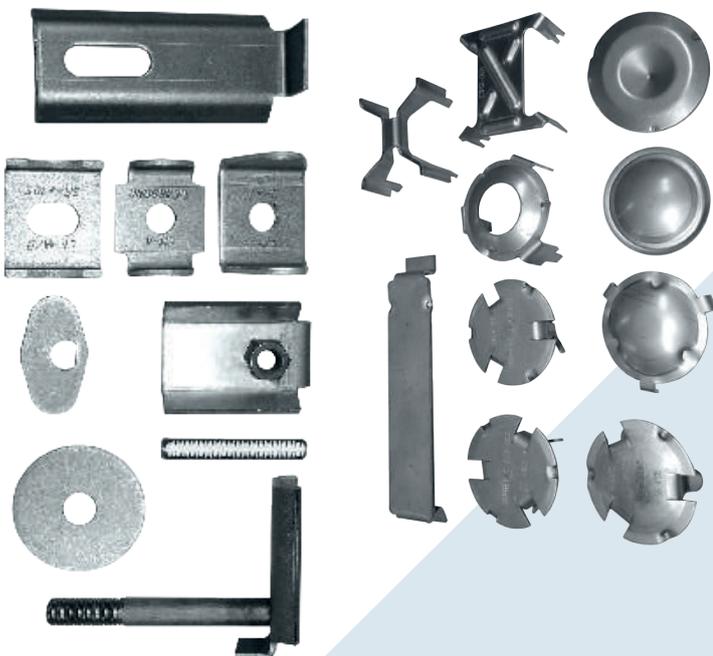
The limiters are positioned devices above the filling. Used both for plastic fillings such as metal, its function is to prevent the suspension of the bed or drag the filling for distributors and even for process streams.



Mist Eliminator

Apexfil offers a choice of mist eliminators for the separation of liquids or mists from gas streams.

The mist eliminators are used for separation of liquid droplets in various types of equipment, including distillation columns, absorption, gas washers (scrubbers), evaporators and knock-out vessels.



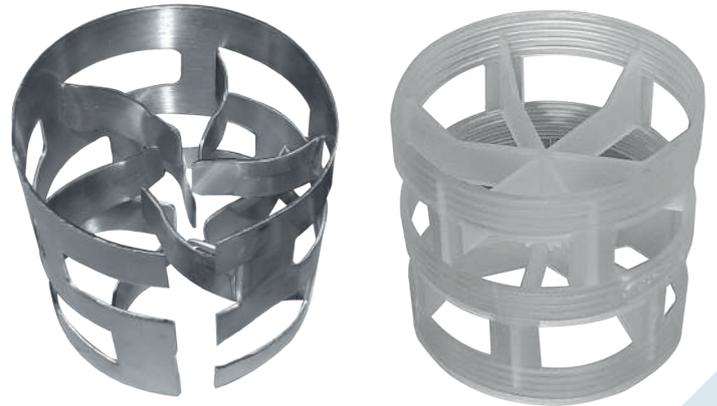
Valves, Bubblers and Fixing accessories

Apexfil offers several devices to process columns and towers, including valves and bubblers for dishes, trays and fasteners, such as staples, bolts, beams and trusses, supports rings and shoes.

Pall Ring

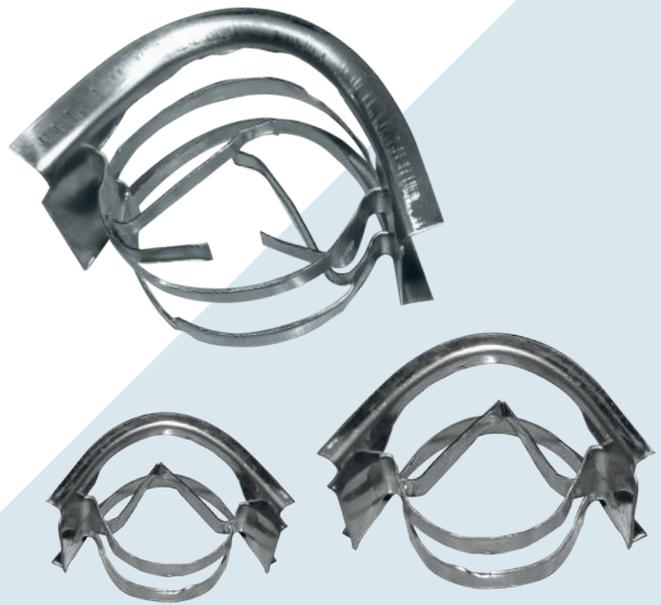
They have open walls and inside of each piece are diametric reinforcements. Their openings allow full access gases and liquids to the core, and ribs provide increased structural strength and additional surface area of contact between gas and liquid.

They are commercially available alloys, polypropylene, polypropylene, fiberglass and other engineering polymers on request.



Ring RMTP (Ring Metal Tower Packing)

Direct substitution of filling IMTP (Intalox Metal Tower Packing). When applied in distillation towers, ensure a low loss and high efficiency. The spread of these types of fillings is to promote a high turbulence of the gas phase inside the equipment, thus influencing the capacity and process efficiency, resulting in reduced operating costs.



Ring RHPP (Ring High Performance Plastic)

Direct substitution of filling Snow Flake. This filling plastic is made by Apexfil offers high efficiency in the absorption, stripping gas and washing water treatment. Its design is designed to work with very low pressure drop compared to conventional plastic fillings without affecting efficiency.



Filter Elements

Polymers Filters

Apexfil's polymers filters are used in the extrusion filaments and recycling plastics. They are usually made of wire mesh ensures optimum performance in filtration.



Hydraulic Cartridges

Apexfil's hydraulic system filter are used in various stages as the suction pressure and the return reservoirs.

Provides the reduction of idle machines and locking devices such as valves, pumps, etc., thus prolonging the life of equipment.

Nominal and absolute retention.



Baskets

Apexfil's filter basket are usually applied in simplex or duplex pressure vessels. Used for retaining solids separation processes, its construction can be stainless steel, carbon and others.

Usually the particles are retained inside the basket facilitating cleaning.

Air Filters

They are applied in the air filtration for ventilation, exhaust, outside air capture and air conditioning systems.

Apexfil's filters are capable of removing dust, oil sprays, protecting equipment and the environment.



Filter Cartridges

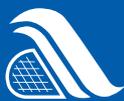
Apexfil's filter cartridge is designed for work in shallow or deep filtration. It can be manufactured with several filter media such as metal screen, paper, cellulose, polyester, polypropylene, sintered micro fiberglass and others, it can be used in different applications and retention.



Cartridges Coalescent

The compressed air filtration prevents damage to systems such as wear, corrosion, clogging and downtime. Filter's Coalescing

Apexfil, protect and control the quality of the final product, ensures the air free of impurities tablet. (solids and aerosols)



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Filtração Industrial



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