



PROCESS FILTRATION

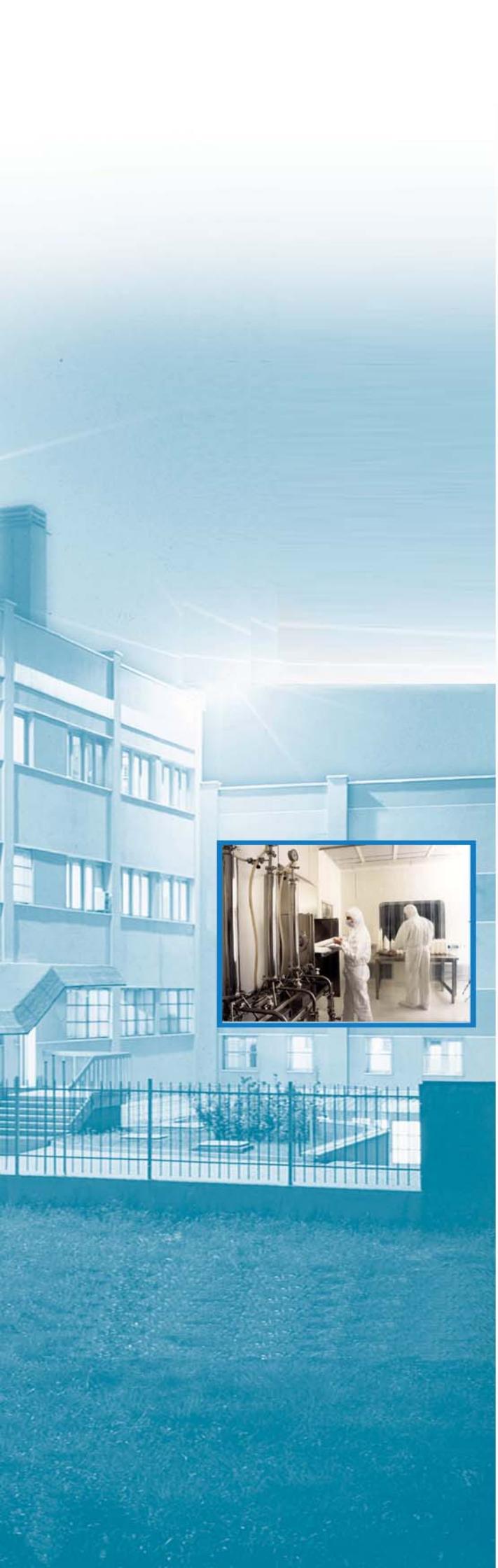


...Our goal is to
work together with our customers
to reach the best result possible

The Quality System of
Bea Technologies has been found
to conform to the Quality System
standard UNI EN ISO 9001 and is
subjected to regularly audits by
accreditate internationally
inspection body.



The effort in the research and
the continuous test in the field
enable us to develop and to manufacture
high tech filter element.



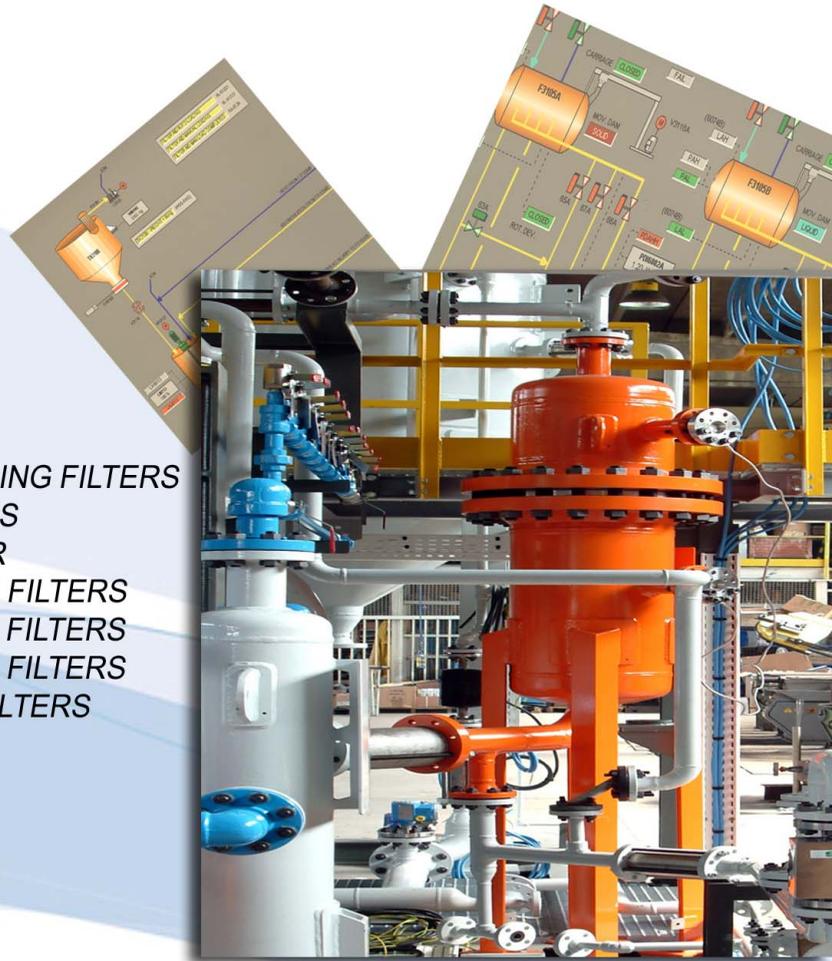
OUR MISSION

Bea Technologies is focused to provide our Customers the highest quality and the most effective products and services.



PROCESS FILTERS

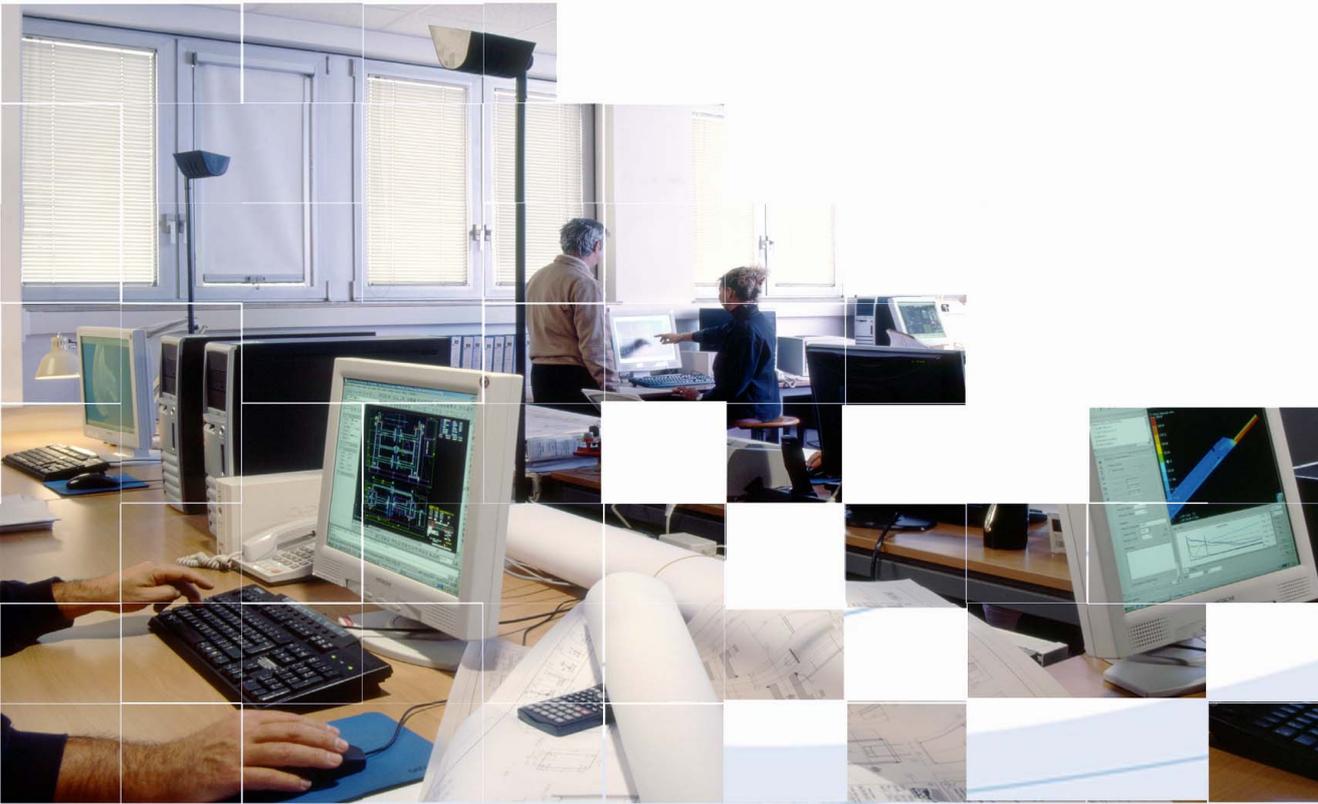
*AUTOMATIC BACKWASHING FILTERS
FEED FILTERS
COALESCER
ACTIVATED CARBON FILTERS
PRECOAT PROCESS FILTERS
BAGS AND PLEATED FILTERS
DUPLEX & SKID FILTERS*



SEARCH & DEVELOPMENT PLANNING

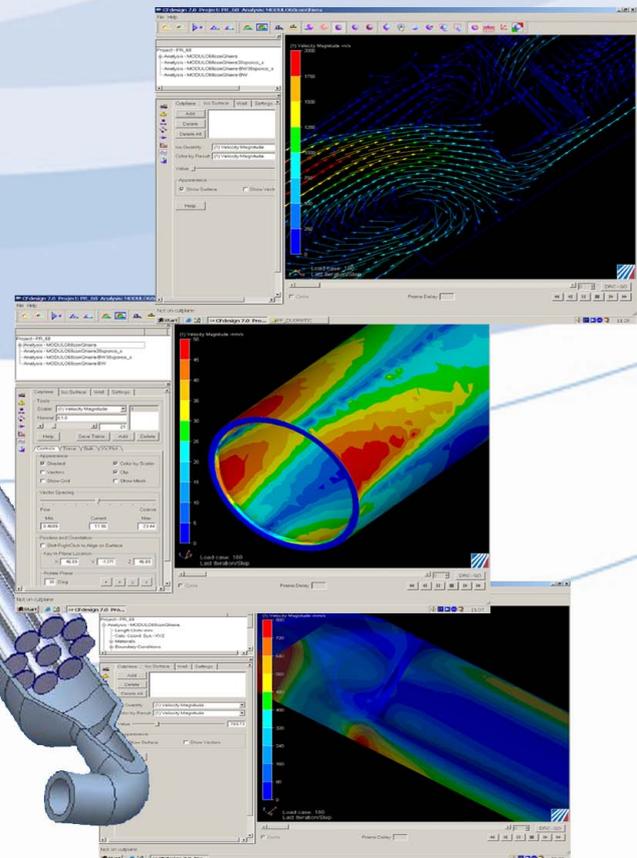
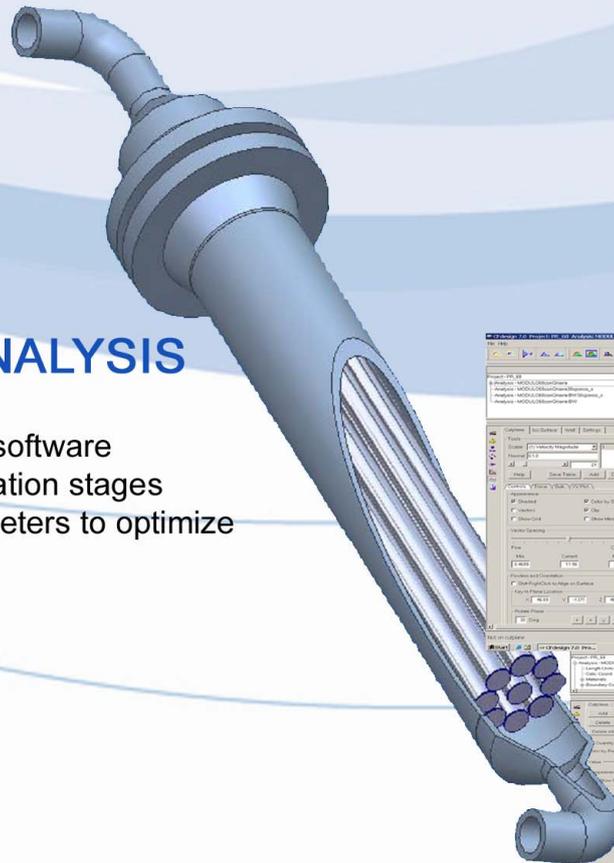
Bea Technologies experienced team studies the applications to find the best solutions for Process filtration, adopting the latest technology.

Technical Department designs the filters according to VSR-M-S , ASME , ADMK , EN1345 directives.



FLUID DYNAMIC ANALYSIS

Fluid dynamic Analysis and 3D software enable to study the different filtration stages and get all the necessary parameters to optimize the product.



AUTOMATIC BACKWASHING FILTER AND PRECOAT FILTER



FILTROMATIC automatic backwashing water filters for high flow

Filtromatic automatic backwashing filters are designed to remove dirt and debris from water, thereby protecting critical equipment and systems for cooling, air conditioning, descaling, boiler feed supply, spray nozzles, etc. The backwashing process requires only minimal quantities of water without stopping filtration. The Filtromatic automatic backwashing filter consists of:

VESSEL BODY: fabricated in mild steel, stainless steel, nickel alloys, etc.

FILTER ELEMENTS: constructed from heavy gauge wedge-wire with V-shaped slots to resist the elements plugging and to facilitate effective backwashing.

AUTOMATIC CONTROLS: automatic backwashing process is driven by electronic panel, screw geared motor, differential pressure gauge and pneumatic activated ball valve.



FILTROMATIC SM automatic backwashing filter for low flow

The Filtromatic SM, integrally made in stainless steel, is a cost effective solution for uninterrupted supply of low flow rate of industrial water, brackish water and fluid water based. Small quantity of filtered water is drawn downstream the filter and is used for the backwashing cycle, that, driven by electronic devices, starts automatically.

Filtromatic SM is available with in-out connections of 3" and 4".



DUOMATIC automatic backwashing feed filters

The Duomatic self-cleaning backwash filter is designed to continuously remove solid contaminant particles from liquid feedstocks in refineries and petrochemical plants. By preventing solid particles from entering and building up in the catalyst bed, the Duomatic filter enables optimum reaction efficiency, extends catalyst life and substantially reduces catalyst bed changeouts. The Duomatic filter generates higher production rates and real savings in operating costs.



UNYVER precoat process filters

Unyver high pressure leaf filters are extremely versatile and utilized in many industrial applications. The filter housing can be designed according to various manufacturing codes, and can be constructed from carbon steel, stainless steel 316L or special alloys. The filter leaf elements are manufactured from layers of stainless steel media or other materials.

VERTICAL leaf filters are recommended for the filtration of liquids with medium or low content of solids, with automatic removal of solids from the filter leaf elements.

HORIZONTAL leaf filters are recommended for the filtration of liquids with relatively high solids content. The filter leaf elements are mounted on an internal carriage, which allows easy removal for cleaning and maintenance.

STAINLESS STEEL FILTER ELEMENTS



RETINOX regenerable pleated filter element

RETINOX filter cartridges are manufactured from pleated stainless steel wire mesh media and a stainless steel core sealed to ends by resin. Retinox filter cartridges can be regenerated by backwashing and cleaning; version with drainage media is available.

Main Applications are:

- Filtration of drinkable and process water
 - Filtration of paints, resins and adhesives, soap, wax and all the high viscosity fluids
- Retinox filter element has no particle migration and therefore is recommended for final filtration after fiber filters.



SOLINOX regenerable filter element

SOLINOX cartridges are constructed entirely in stainless steel, with a fine stainless steel mesh wrapped around a robust stainless steel inner core and metal end-caps; no glues or resins are used in the construction. SOLINOX cartridges are cleanable and regenerable; they have a very high mechanical resistance up to differential pressure of 20 bar and can withstand extreme temperatures from -30°C to +300° C. Typical applications include:

- corrosive fluids, high temperatures viscous liquids, liquefied gas and steam
- Viscous liquids with high differential pressure drop
- Elements that needs no fiber presence
- Precoat filtration



PORAL INOX Stainless Steel Seamless filter element

PORAL INOX regenerable elements are manufactured from a sintered stainless steel seamless tube with controlled porosity.

Ends welded by TIG process are available with a wide array of fittings including flat gasket, threaded and bayonet connections.

PORAL INOX elements are versatile and extremely robust. Typical applications include filtration of liquids, gases, steam and corrosive chemicals.

On request, PORAL MONEL and PORAL INCONEL are available for extremely highly corrosive gases or liquids.



STEELPORE Stainless Steel filter elements

STEELPORE pleated cartridges are 100% stainless steel. The filter media is a sintered stainless steel microfiber, supported by a wire mesh with solid end caps. All the cartridge components are precision TIG welded.

Steelpore cartridges are able to resist high temperatures and differential pressures.

Steelpore cartridges are backwashable and steam cleanable.



OXOPOR oxygen filter element

OXOPOR porous sintered bronze filter elements are specifically designed for high pressure oxygen gas filtration. Oxopor elements, manufactured from non-sparking materials, are designed to be easily cleanable and to achieve extremely long service life.

Main features of this filter elements are:

- Usage of oxygen compliant material
- Degreasing of all components before and after assembly
- Collapse pressure above 100 bar
- Integrity test on 100% of the filter elements

Specially designed housings are available to be used in conjunction with Oxopor elements.

PLEATED & DEPTH FILTER ELEMENT



BRAVOCHEM polyester filter elements

BRAVOCHEM provide a cost effective filtration in applications where retention efficiency, service operating life and dirt holding capacity must be linked with high chemical compatibility.

The media is pleated borosilicate microfibers with upstream and downstream layers of polyester and thermo-welded end fittings.

The media retains the contaminants both through mechanical and adsorption mechanism: the result is high dirt holding capacity and precise filtration rating.

Except the media in borosilicate, all the components are in polyester. External net-mesh prevents back pressure phenomena. The cartridges 20", 30" and 40" are manufactured in one single piece.



BRAVOPLEAT polypropylene filter elements

BRAVOPLEAT BLP provides a cost effective filtration in applications where retention efficiency, service operating life and dirt holding capacity are the key factors.

The media is obtained pleating several layers of Melt-blown and Spun-bonded polypropylene; the end fittings, available in several configuration, are assembled by Hot-melt process. External extruded cage prevents back pressure phenomena and allows sanitization and sterilization cycles. The cartridges 20", 30" and 40" are manufactured in one single piece and represent a valid alternative to retrofit string wound cartridges, when better performances are required



POLYSAN all polypropylene filter element

POLYSAN prefilter are entirely made in polypropylene suitable to be used in food and cosmetic applications. POLYSAN is obtained by pleating up to 5 polypropylene layers of decreasing porosity to achieve high effective filtration area, high dirt holding capacity and precise and controlled filter ratings. The material used are in accordance with FDA, USP and EC directives for food contact and their manufacturing is performed in a controlled environment.



POLYVER borosilicate microfibers filter element

POLYVER is designed for cosmetic and food&beverage applications for the filtration of liquid with high bio-burden and colloidal particles. PH grade is prefluxed with non-pyrogenic water and is suitable for pharmaceutical process applications.

The media is made by borosilicate microfibers pleated with upstream and downstream layers of polypropylene; the electrical charges of the porous media interact with the contaminant electrical charges and generate an attraction whose effect is to retain particles finer than the physical passage.

Manufacturing is performed in a controlled environment.



POLYVERSE regenerable filter element

POLYVERSE is designed for clarification in Food&Beverage industries.

The media is obtained by innovative materials with controlled and decreasing porosity, particularly pleated in order to allow the chemical regeneration or to perform an easier backwashing process.

Materials of construction meet international guidelines for Food contact.

Manufacturing is performed in a controlled environment.



MAGNEX - GRANPLEAT large size pleated filter elements

MAGNEX & GRANPLEAT adopt a new technology with high pleated surface. MAGNEX & GRANPLEAT enable longer running time and easier change-outs by maintenance workers. The incorporated SE-TECH technology allows to achieve optimal flow distribution between the media and the internal core, avoiding restriction and exploiting the full filtration surface area to generate higher throughput and service life.



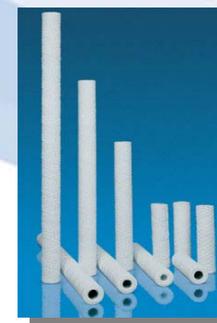
TOPLIFE depth filter elements

TOPLIFE TPG is integrally manufactured with polypropylene. The filter media is obtained by winding around the internal core several polypropylene layers, having different porosity and permeability from external to internal; the outer section retains larger particles while the inner section provides filtration rating with efficiency of 99,98%. The high chemical compatibility of the polypropylene allows the use both in industrial general applications and Food&Beverage applications. All the materials of construction are chemically and biologically in accordance with FDA and EC requirements.



STARLIFE meltblown depth filter elements

STARLIFE are meltblown polypropylene depth filters ideal for filtration in food & beverage, industrial, inks and paints applications. The filter element is made with microfibers, thermally banded to get pattern with decreasing porosity from external to internal. The strongly bounded media structure does not require any internal or external support providing cost effective solutions.



MIKROCELL string wound filter element

MIKROCELL are high quality string wound cartridges offering high capacity for contaminant retention at low operating costs. These cartridges are available in various string wound materials including polypropylene, cotton and glass fiber, with support cores available in polypropylene, galvanized steel and stainless steel. Typical applications are pre-RO water treatment, chemicals, metal plating and food & beverage

BAGS



BEAFELT-BEAMESH-BEAFINE felt, mesh and multi-layer bags

BEAFELT is manufactured with polypropylene or polyester needlefelt; the right combination among diameter, weight and thickness give effective filtration for jelly and solid particles. BEAMESH bags are available with polyester mesh and nylon monofilament screen which can be, in some applications, re-used. BEAFINE include multi-layer polypropylene bags typically used for wine, beer filtration as well as for filtration of chemicals.

HOUSINGS



Industrial housings

Industrial housings series offers interesting options in order to guarantee cost effective investment easy change outs and maintenance.

Industrial housings are available in 304 e 316L Stainless Steel and are designed with various closure systems, including V-Clamp, swing bolts and quick opening closure. A wide range of connections and optional accessories are available.



Single filter element housings

Single filter element housings are available in Carbon Steel and 316 Stainless Steel constructions. MAB - GHS - PAT - GFF series are used for both gas and liquid filtration.

Single filter element housings are available both with double open end or code 7 configuration, in different construction material and filtration grade.

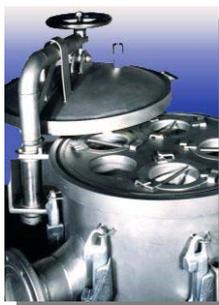


Sanitary and Food & Beverages housings

Sanitary housings are used for applications in food and pharma industries.

The housings are available in Stainless Steel constructions with internal and external surface polished down to < 0,3 RA.

They are available to fit from 1 up to 45 cartridges. Inlet and outlet connections are both DIN 11851 or TRICLOVER type.



Bags housings

Bags housing are used when high quantity of contaminants are present in the fluid.

Single and multi-bag housings are available with various closure systems, including clamp, eye-bolts and swing-bolts.



Special Housings

Be-spoke Housings for process filtration are designed on customer requirements and according to international manufacturing codes.

The design will take advantages of fluidodynamic analysis to consider multiple factors such as turbulence and pressure drops.

All the Housings comply with 97/23/CE-PED and, if required, can be designed to meet 94/9/CE-ATEX directives.

PED 97/23/CE



PRESSURE EQUIPMENT DIRECTIVE & QUALITY SYSTEM



DET NORSKE VERITAS
QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificato No. / Certificate No. **CERT - 00190 - 94 - AQ - MIL - SINCERT**

Si attesta che / This certifies that

IL SISTEMA DI GESTIONE PER LA QUALITÀ DI / THE QUALITY MANAGEMENT SYSTEM OF

BEA TECHNOLOGIES S.p.A.
Via Newton, 4 - 5/7 - 8/a - 20016 Pero (MI) - Italy

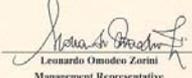
È CONFORME AI REQUISITI DELLA NORMA PER I SISTEMI DI GESTIONE PER LA QUALITÀ
 CONFORMS TO THE QUALITY MANAGEMENT SYSTEM STANDARD

UNI EN ISO 9001: 2000 (ISO 9001: 2000)

Questa certificazione è valida per il seguente campo applicativo:
 This certificate is valid for the following product or services:

(Ulteriori chiarimenti riguardanti lo scopo e l'applicabilità dei requisiti della normativa si possono ottenere contattando l'organizzazione certificata)
 (Further clarifications regarding the scope and the applicability of the requirements of the standard(s) may be obtained by contacting the certified organization(s))

Progettazione, produzione, commercializzazione ed assistenza di elementi filtranti ed accessori, recipienti a pressione, tecnologie di separazione e sistemi filtranti
Design, manufacture, trade and servicing of filter elements and devices, pressure vessels, separation technologies and filtration systems

Luogo e data Place and date Agrate Brianza (MI), 2004-10-27	Data Prima Emissione: First Issue Date: 1994-02-07	per l'Organismo di Certificazione for the Accredited Unit Det Norske Veritas Italia S.r.l.
Lead Auditor: RENZO SERRA		 Leonardo Omodeo Zorini Management Representative
<small>ISO Registrazione N. 0034 95A Registrazione N. 0030 PESD Registrazione N. 0030</small>		

La validità del presente certificato è subordinata a sorveglianza periodica (ogni 6, 9 o 12 mesi) e al riesame completo del sistema con periodicità triennale.
 The validity of this certificate is subject to periodical audits (every 6, 9 or 12 months) and the complete re-assessment of the system every three years.

UNI EN ISO
9001:2000

bea



Bea Technologies is dedicated to provide Customers with the highest quality and most effective products and services.

Customer Service

A highly experienced team of engineers and filtration experts is available to advise our Customers regarding the selection of the best performing and most cost effective filter for their particular application. Please contact us to arrange for an initial evaluation and on-site trial.

Laboratory Service

Bea Technologies has a fully equipped laboratory with a broad range of test rigs and instrumentation to conduct laboratory trials to help Customers to optimise their production processes.

Quality System

The Quality Management System implemented by Bea Technologies SpA has been certified according to:

UNI EN ISO 9001:2000
CERT-00190-94-AQ-MIL-SINCERT

