



**ultrafilter process filtration
free of particles & sterile**

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Sterile filter elements and housings for compressed air, technical gases and liquids

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Free of particles & sterile

Free of particles and sterile

Compressed air, technical gases and liquids require a certain purity in most applications. In most cases, the media has to be free of particles.

Especially the food and beverage, pharmaceutical or chemical industries require a special degree of purity of the used media. Compressed air and technical gases must be free of particles, but also free of bacteria, microorganism and viruses.

As opposed to their size, microorganism are a serious problem for most sensitive production areas. As living organisms, they are able to proliferate in the right ambient condition and to contaminate the production.

Only a few viable organism in a clean or sterile production process can result in immense damages. Not only resulting in a lower product quality but also by complete uselessness of the production charge.

Sterile filter elements and filter housings from ultrafilter

Ultrafilter offers a complete range for process filtration of compressed air, technical gases and liquids.

Ultrafilter GmbH offers a wide range of sterile filters for different applications. Depending on the application a wide range of filter elements with nominal or absolute retention rates can be offered.

Within the production of our process filters, only the highest quality materials are used.

All process filters are made of inert materials, without adhesives, additives or surface active components.

Ultrafilter GmbH offers a wide range of stainless steel filter housings for the individual filtration requirements.

All Ultrafilter stainless steel filter housings are build and designed according to international requirements.

Depending on the requirements, stainless steel filter housings can be offered in different stainless steel qualities (304, 316L) and different connections.

Ultrafilter filter housings achieve high volumes flow at low differential pressures due an improved construction.

Due to the modular design different element types can be installed.

Ultrafilter P-SRF

for compressed air and technical gases



Ultrafilter P-SRF

The P-SRF is a wounded depth filter with inner and outer guard end caps made of stainless steel. Consisting of a threedimensional borosilicate depth media, the P-SRF achieves a void volume of 95 %, ensuring a high containment capacity at high flow rates and low differential pressure. A retention rate of > 99.99998 % related to 0.01 µm is achieved during operation.

All components meet the FDA requirements for the contact with food in accordance with the CFR requirements (code of federal regulations) tilte 21.

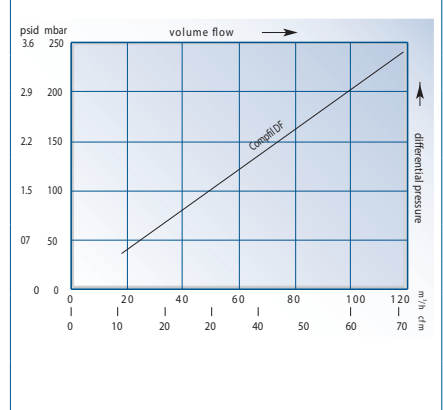
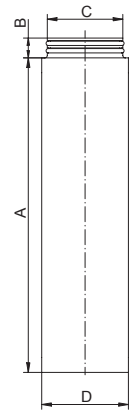
Features and advantages

- Non-fibre releasing filter element
- Manufactured without use of binders or other chemical additives
- Corresponds to cGMP requirements (current Good Manufacture Practice) and is manufactured according to DIN EN ISO 9001.
- P-SRF has passed the toxicological test according to USP XX Class VU for plastics.

Applications

- Packing industry
- Biotechnology
- Breweries
- Chemical industry
- Diaries
- Fermentation processes
- Food & beverage industry
- Pharmaceutical industry
- Hospitals

| element size | A mm | B mm | Ø C mm | Ø D mm | correction factor |
|--------------|------|------|--------|--------|-------------------|
| 03/10 | 76 | 12 | 3/4" | 42 | 0,12 |
| 04/10 | 104 | 12 | 3/4" | 42 | 0,17 |
| 04/20 | 104 | 14 | 1" | 52 | 0,19 |
| 05/20 | 104 | 14 | 1" | 52 | 0,19 |
| 05/25 | 128 | 14 | 1" | 62 | 0,32 |
| 05/30 | 128 | 16 | 2" | 86 | 0,46 |
| 07/25 | 180 | 14 | 1" | 62 | 0,47 |
| 07/30 | 180 | 16 | 2" | 86 | 0,68 |
| 10/30 | 254 | 16 | 2" | 86 | 1,00 |
| 15/30 | 381 | 16 | 2" | 86 | 1,55 |
| 20/30 | 508 | 16 | 2" | 86 | 2,10 |
| 30/30 | 762 | 16 | 2" | 86 | 3,28 |
| 30/50 | 762 | 16 | 2" | 140 | 5,89 |



Vent filter P-BE for storage tanks



Ultrafilter P-BE

The P-BE is a wounded depth filter with inner and outer guard end caps made of stainless steel. Consisting of a threedimensional borosilicate depth media, the P-BE achieves a void volume of 95 %, ensuring a high containment capacity at high flow rates and low differential pressure. A retention rate of > 99.999 % related to 0.01 µm is achieved during operation.

All components meet the FDA requirements for the contact with food in accordance with the CFR requirements (code of federal regulations) tilte 21.

Features and advantages

- Non- fibre releasing filter element.
- Manufactured without use of binders or other chemical additives.
- Corresponds to cGMP requirements (current Good Manufacture Practice) and is manufactured according to DIN EN ISO 9001.
- P-BE has passed the toxicological test according to USP XX Class VU for plastics.

Applications

- Chemical and Petrachemical industry
- Pharmaceutical Industry
- Biotechnology
- Cosmetics Industry
- Breweries and dairies
- Food and beverages
- Water treatment systems
- Fermentation processes

| element size | A mm | B mm | Ø C mm | Ø D mm | correction factor |
|--------------|------|------|--------|--------|-------------------|
| 03/10 | 76 | 12 | 3/4" | 42 | 0,12 |
| 05/25 | 128 | 14 | 1" | 62 | 0,32 |
| 05/30 | 128 | 16 | 2" | 86 | 0,46 |
| 10/30 | 254 | 16 | 2" | 86 | 1,00 |
| 20/30 | 508 | 16 | 2" | 86 | 2,10 |
| 30/30 | 762 | 16 | 2" | 86 | 3,28 |

Ultrafilter P-GS

for gases, liquids and steam



Ultrafilter P-GS

The ultra filter P-GS filter is designed for removal of particles from gases, liquids and steam.

The P-GS consists of a regenerable weldless filter pipe made from sintered stainless steel. The retention rate extends from 1 µm to 25 µm.

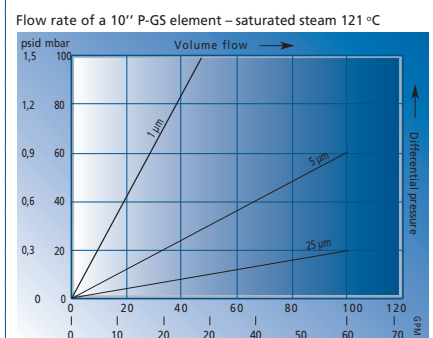
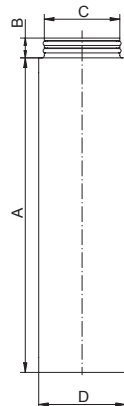
Features and advantages

- Good durability against most liquids, aggressive gases and steams.
- The porosity level is more than 50 % ensuring high particle and dirt load capacity as well as a good flow rate at a low differential pressure.
- Regeneration by ultrasonic bath.

Applications

- Aseptic packing
- Chemical Industry
- Breweries and dairy industry
- Electronic industry
- Fermentation processes
- Food and beverages
- Pharmaceutical industry
- Plastic industry

| element size | A mm | B mm | Ø C mm | Ø D mm | correction factor |
|--------------|------|------|--------|--------|-------------------|
| 03/10 | 76 | 12 | 3/4" | 42 | 0,12 |
| 04/10 | 104 | 12 | 3/4" | 42 | 0,17 |
| 04/20 | 104 | 14 | 1" | 52 | 0,19 |
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| 10/30 | 254 | 16 | 2" | 86 | 1,00 |
| 15/30 | 381 | 16 | 2" | 86 | 1,55 |
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| 30/30 | 762 | 16 | 2" | 86 | 3,28 |
| 30/50 | 762 | 16 | 2" | 140 | 5,89 |



Ultrafilter P-SM

made of stainless steel mesh



Features and advantages

- The P-SM offers an especially economical pre- and final filtration.
- Regeneration of stainless steel mesh by ultrasonic bath or back flush.
- Welded contact points, guaranteeing a constant pore diameter, even under extreme operating conditions.
- Also suitable for high viscosity liquids.
- Withstands a differential pressure of up to 5 bar (flow from outside to inside).
- Suitable for operating temperatures of up to 200°C.

Ultrafilter P-SM

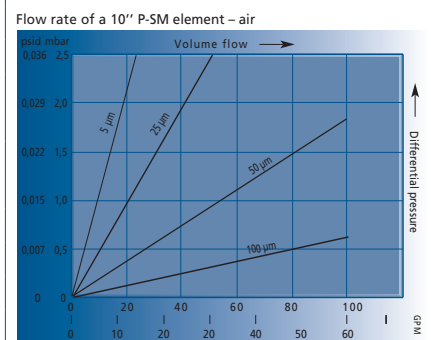
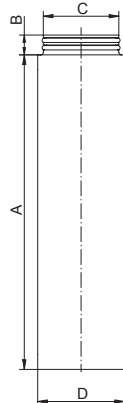
Pre- and final filter with absolute retention rate for particle removal from aqueous solutions, water and other liquids, as well as gases.

The P-SM consists of a regenerable stainless steel mesh, with stainless steel outer guard and endcaps. The retention rate extends from 5 µm up to 250 µm.

Applications

- Water filtration
- Chemicals
- Solvents
- Biological liquids
- Pharmaceuticals and cosmetics
- Food and beverages
- Syrup
- Oils
- Collants

| element size | A mm | B mm | Ø C mm | Ø D mm | correction factor |
|--------------|------|------|--------|--------|-------------------|
| 03/10 | 76 | 12 | 3/4" | 42 | 0,12 |
| 04/10 | 104 | 12 | 3/4" | 42 | 0,17 |
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| 07/30 | 180 | 16 | 2" | 86 | 0,68 |
| 10/30 | 254 | 16 | 2" | 86 | 1,00 |
| 15/30 | 381 | 16 | 2" | 86 | 1,55 |
| 20/30 | 508 | 16 | 2" | 86 | 2,10 |
| 30/30 | 762 | 16 | 2" | 86 | 3,28 |
| 30/50 | 762 | 16 | 2" | 140 | 5,89 |



Ultrafilter PP-TF

for particle retention out of liquids



Ultrafilter PP-TF

Depth filter for particle removal from water and aqueous solutions with a nominal retention rate of 1 µm to 50 µm.

The PP-TF is a pleated polypropylene filter with an inner and outer guard of polypropylene.

This filter element distinguishes itself by an exceedingly high dirt hold capacity as well as a high flow rate with a low differential pressure and a long service life.

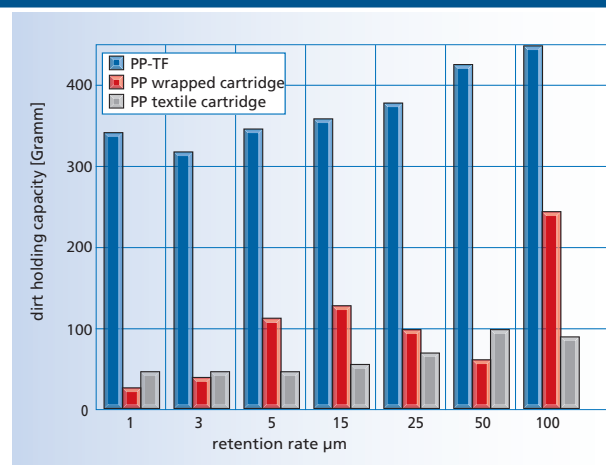
Features and advantages

- Manufactured in accordance with cGMP requirements (current Good Manufacture Practice).
- no migration of filter medium, non-fibre releasing, thermally, binderfree welded without chemical additives

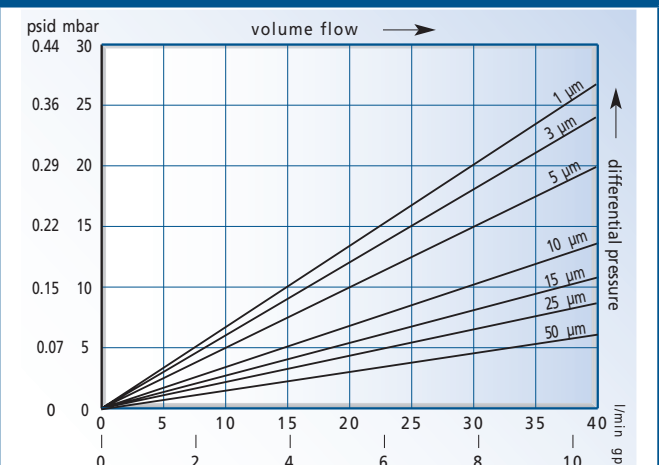
Applications

- Biological liquids
- Chemicals
- Collants
- Cosmetics
- Etchants
- Food and beverages
- Jet printer inks
- Oils
- Photolithographical liquids
- Pharmaceuticals
- Solvents

Dirt holding capacity of a PP-TF element



volume flow of a 10" PP-TF element



Ultrafilter PP

depth filter for particle retention out of liquids



Features and advantages

- Manufactured in accordance with cGMP requirements (current Good Manufacture Practice) and complies with FDA requirements for the contact with food.
- no migration of filter medium, non-fibre releasing.
- thermally, binderfree welded without chemical additives.
- Pre-rinsed with 18MΩ • cm water, which leads to extremely low extractables.

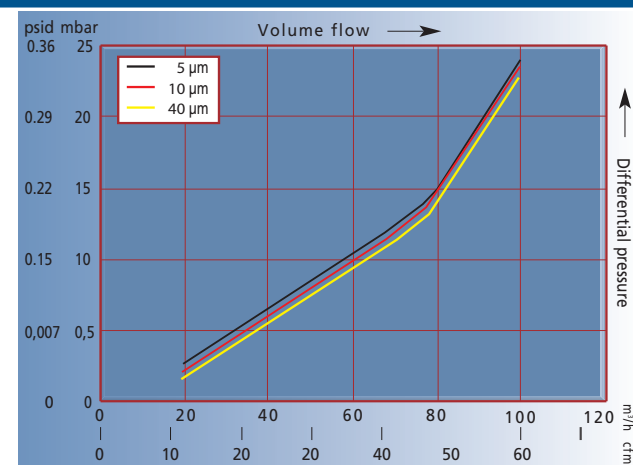
Ultrafilter PP

- Depth filter for particle removal from water and aqueous solutions and gases with a nominal retention rate of 1 µm to 30 µm.
- The P-PP is a pleated polypropylene filter with an inner and outer guard of propylene.
- This filter element distinguishes itself by an exceedingly high dirt hold capacity as well as a high flow rate with a low differential pressure and a long service life.

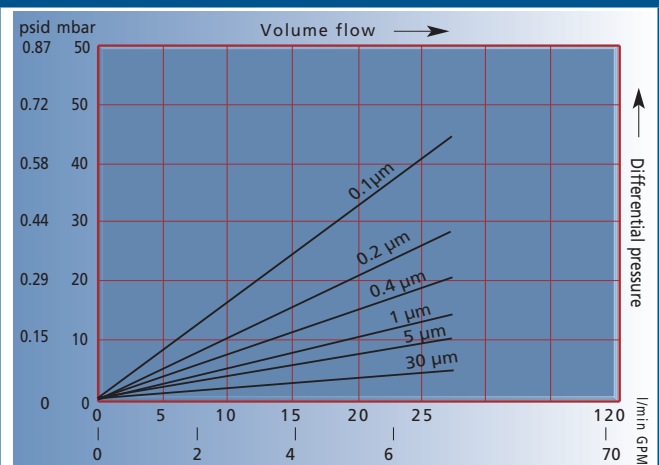
Applications

- Biological liquids
- Chemicals
- Collants
- Compressed air and other gases
- Cosmetics and pharmaceuticals
- Food and beverages
- Syrup
- Oils und jet printer inks
- Solvents
- Water

Volume flow of a 10" element - air



Volume flow of a 10" element - water



Ultrafilter PP100

for particle retention out of liquids



Ultrafilter PP100

Depth filter for particle removal from water and aqueous solutions with an absolute retention rate of 0.45 μm to 40 μm .

The PP100 is a pleated polypropylene filter with an inner and outer guard of propylene.

This filter element distinguishes itself by an exceedingly high dirt hold capacity as well as a high flow rate with a low differential pressure and a long service life.

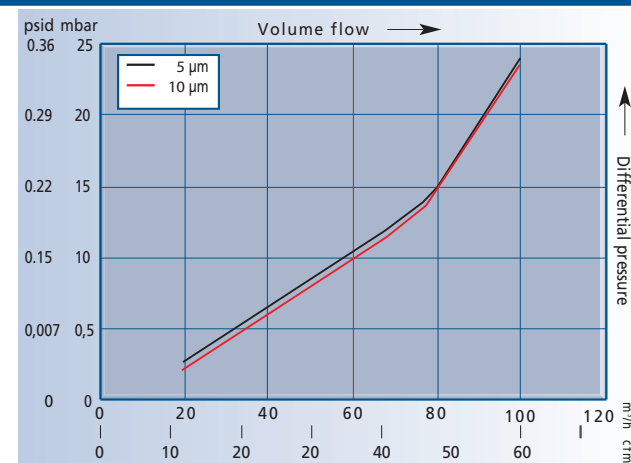
Features and advantages

- Manufactured in accordance with cGMP requirements (current Good Manufacture Practice) and complies with FDA requirements for contact with Food in accordance with CFR Title 21.
- no migration of filter medium, non-fibre releasing
- thermally, binderfree welded without chemical additives.
- Pre-rinsed with 18M Ω • cm water, which leads to extremely low extractables

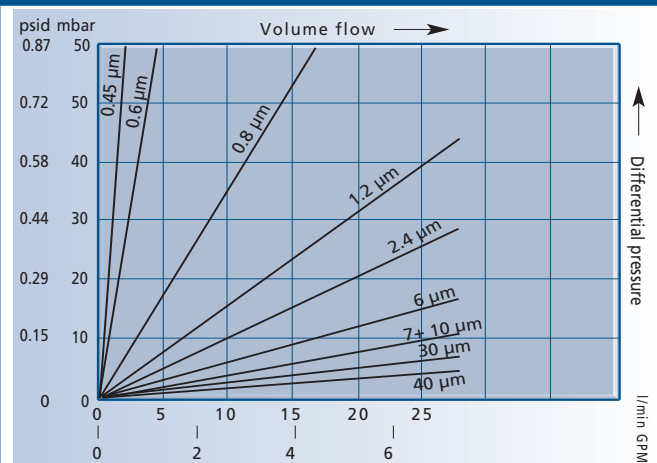
Applications

- Biological liquids
- Chemicals
- Collants
- Compressed air and other gases
- Cosmetics and pharmaceuticals
- Etchants
- Food and beverages
- Jet printer inks
- Photolithografische Flüssigkeiten
- Serums
- Syrup
- Solvents
- Water

Volume flow of a 10" element - air



Volume flow of a 10" element - water



Ultrafilter PF-BEV

membrane filter with absolute retention rate



Ultrafilter PF-BEV

Membrane filter for particle removal from water and aqueous solutions with an absolute retention rate of 0.2 μm to 0.45 μm .

The P-PF-BEV is a polyethersulfone membrane filter with an inner and outer guard of propylene..

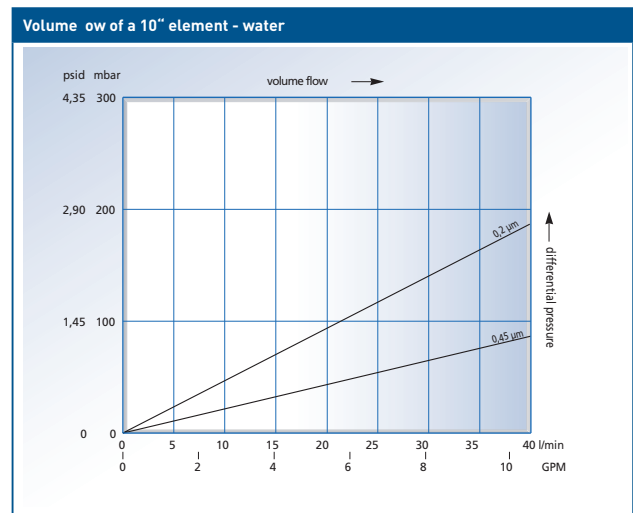
The filter media polyethersulfone is inherently hydrophilic and distinguishes itself by having an asymmetrically designed pore structure. The pore size steadily decreases towards the center of the medium.

Features and advantages

- Manufactured in accordance with cGMP requirements (current Good Manufacture Practice).
- P-PF-BEV meets the FDA requirements for the contact with food in accordance with CFR (Code of Federal Regulations) Title 21. P-PF-BEV has passed the USP XX Class VI tests for plastics.
- thermally, binderfree welded without chemical additives

Applications

- Food and beverages
- Rinsing or cleaning water
- Sterile water
- Mixing or blending water



Ultrafilter PF-PES

for sterile filtration of aqueous solutions



Ultrafilter PF-PES

Membrane filter for particle removal from water and aqueous solutions and solvents with an absolute retention rate of 0.04 μm to 0.6 μm .

The P-PF-PES is a polyethersulfone membrane filter with an inner and outer guard of propylene.

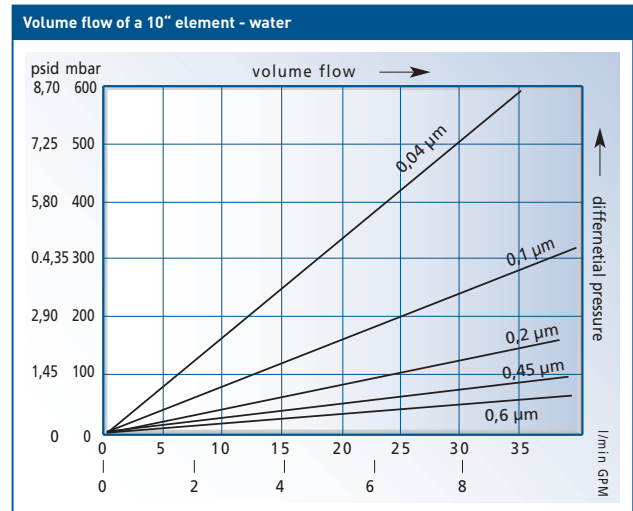
The filter media polyethersulfone is inherently hydrophilic and distinguishes itself by having an asymmetrically designed pore structure. The pore size steadily decreases towards the center of the medium.

Features and advantages

- Manufactured in accordance with cGMP requirements (current Good Manufacture Practice).
- P-PF-PES meets the FDA requirements for the contact with food in accordance with CFR (Code of Federal Regulations) Title 21. P-PF-PES has passed the USP XX Class VI tests for plastics.
- Pre-rinsed with 18M Ω - cm water, which leads to extremely low extractables.

Applications

- Serum & blood-based products
- Antibiotics
- Injectables
- Diagnostic reagents
- Deionised water
- Sterile water
- Chemically treated water
- Acids and bases
- Ketones etc.



Ultrafilter PF-PP

membrane filter with absolute retention rate



Features and advantages

- Manufactured in accordance with cGMP requirements (current Good Manufacture Practice).
- P-PF-PP meets the FDA requirements for the contact with food in accordance with CFR (Code of Federal Regulations) Title 21. P-PF-PP has passed the USP XX Class VI tests for plastics.
- The membrane is non-fibre realising and thermally welded without use of binders or chemical additives.

Ultrafilter PF-PP

Membrane filter for filtration of solvents, alcohols, chemicals and gases with an absolute retention rate of 0.04 μm to 0.2 μm .

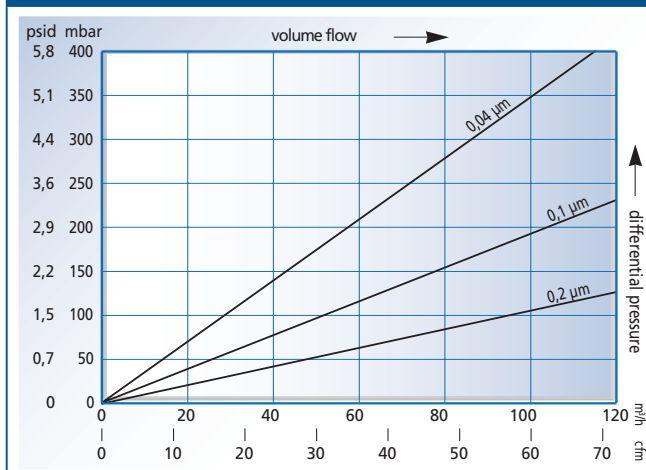
The P-PF-PP is a pleated propylene membrane filter with an inner and outer guard of propylene.

The filter media propylene is inherently hydrophobic with a highly porous membrane structure.

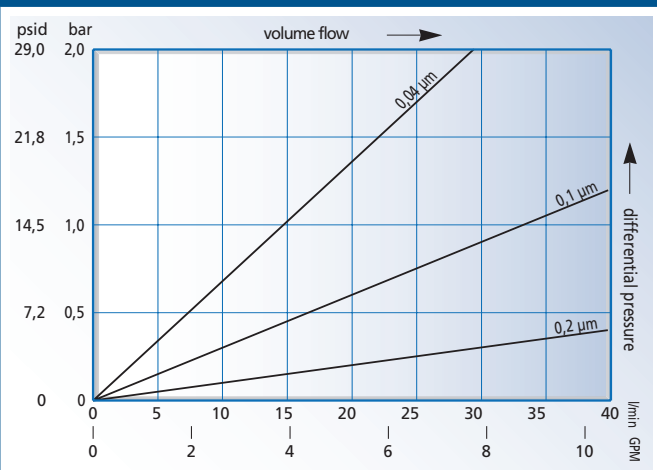
Anwendungsbereiche

- Photo-lithographical solutions
- Alcohols
- Bases
- Etchants
- Solvents
- Photoresists
- Fermentation gases
- Technical gases
- Tank ventilation

Volume flow of a 10" element - air



Volume flow of a 10" element - water



Ultrafilter PF-PT

for aggressive liquids and gases



Ultrafilter PF-PT

Pleated membrane filter for particle removal from aggressive solvents, chemicals and gases with a nominal retention rate.

The PF-PP filter is a high quality Teflon filter media, offering maximum assurance of filtration performance and durability against chemicals in severe process conditions.

The retention rate extends from 0.1 μm to 1 μm . The Teflon[®] filter media is inherently hydrophobic with a

highly porous membrane structure.

All components meet the FDA requirements for the contact with food in accordance with the CFR (Code of Federal Regulations) Title 21. PF-PT filter elements have passed the toxicological tests according to US-PXX Class VI for plastics.

In particular, the requirements of the chemical, biological, cosmetic, electronic and the pharmaceutical industries are fulfilled

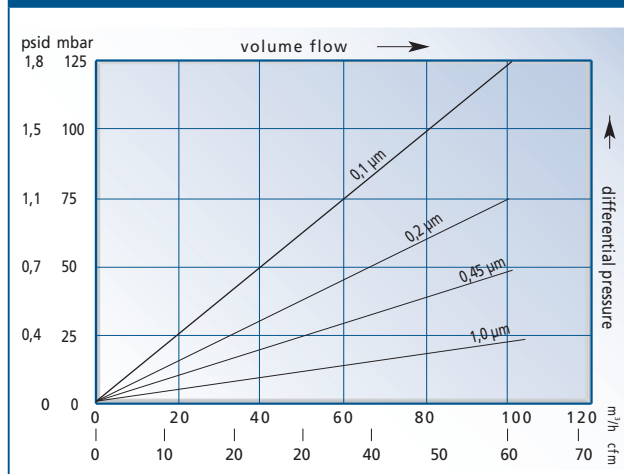
Features and advantages

- Manufactured in accordance with cGMP requirements (current Good Manufacture Practice).
- The membrane is non-fibre realising and thermally welded without use of binders or chemical additives.

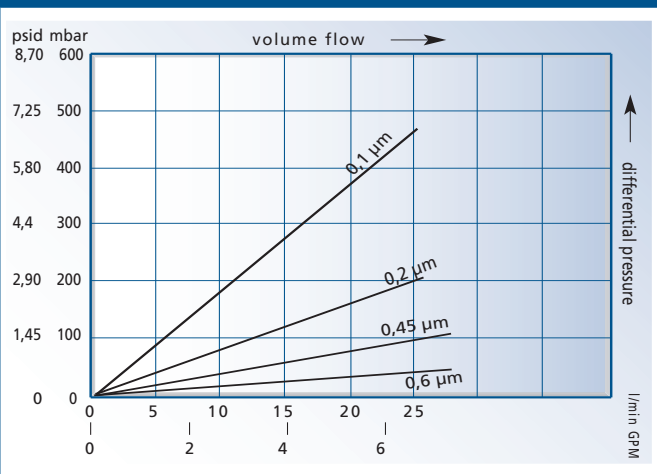
Applications

- Particle removal from water
- Chemicals
- Biological liquids
- Solvents
- Cosmetics
- Photo-lithographic solutions
- Paints & dyes
- Jet printer inks
- Coatings

Volume flow of a 10" element - air



Volume flow of a 10" element - water



Prozessfilter

Konformität und Beständigkeit

Chemical durability of filter media

| Media | Filter type | | | |
|---------------------------|--------------|------------------|-------|-------|
| | PP 100 PP | PF-PES PF-BEV | PF-PP | PP-PT |
| acetone | 1 | 3 | 1 | 1 |
| benzole | 3 | 1 | 3 | 2 |
| benzyl alcohol | 1 | - | 1 | 1 |
| butanol | 1 | 1 | 1 | 1 |
| chloroform | 2 | 3 | 2 | 2 |
| cyclohexanon | 1 | 3 | 1 | 1 |
| steam | 1 | 1 | 1 | 1 |
| acetic acid | 1 | 1 | 1 | 1 |
| ethanole | 1 | 1 | 1 | 1 |
| hydrogen fluoride 50 % | 1 | - | 1 | 1 |
| formamide | 1 | - | 1 | 1 |
| formaldehyde | 1 | 1 | 1 | 1 |
| fluorosilicic acid | 2 | - | 2 | 2 |
| hydraulic fluid | 1 | 2 | 1 | 1 |
| caustic potash 32 % | 1 | 1 | 1 | 1 |
| kerosine | 1 | - | 1 | 1 |
| adhesives | - | 1 | - | - |
| paint | - | 1 | - | - |
| methanole | 1 | 1 | 1 | 1 |
| motor oil | - | 1 | - | - |
| caustic soda 32 % | 1 | 1 | 1 | 1 |
| n-hexane | 2 | 1 | 2 | 1 |
| ozone | - | 1 | - | - |
| perchloric acid 25 % | 1 | - | 1 | 1 |
| vegetable oil | - | 1 | - | - |
| phosphoric acid 25 % | 1 | - | 1 | 1 |
| phosphoric acid 85 % | 1 | - | 1 | 1 |
| pyridine | 2 | 3 | 2 | 1 |
| nitric acid 25 % | 1 | 3 | 1 | 1 |
| lubricant | 1 | 1 | 1 | 1 |
| sulfuric acid 25 % | 1 | 1 | 1 | 1 |
| sulfuric acid 98 % | 2 | 3 | 1 | 1 |
| silicone | 1 | 1 | 1 | 1 |
| toluole | 3 | 3 | 3 | 2 |
| trichloroacetic acid 25 % | 1 | - | 1 | 1 |
| water | 1 | 1 | 1 | 1 |
| citric acid | 1 | 1 | - | - |

1 = recommended
 2 = limited recommendable
 3 = not recommended
 - = not tested

A complete list for all filter elements and media can be achieved upon request.

Declaration of Conformity

- Quality starts with the right choice of raw materials. Only the best materials are used in our production. We pay total attention to ensuring the highest quality and efficiency levels. This is ensured by continuous quality approvals..
- All products perfectly match to each other and comply highest quality requirements. System solutions with highest operational safety and efficiency can be achieved at any time.
- All process filters are made of inert materials, without adhesives, additives or surface active components.
- To comply with the stringent regulations of the FDA for contact with food the ultrafilter plastic filters have passed the toxicological tests according to USP Class VI and are biologically inert.
- All ultrafilter sterile filter are integrity tested to ensure highest operational safety and continuously high quality.

P-EG stainless steel housing for sterile filtration of gases



Features and advantages

- 18 different sizes for operating volumes from 60 to 23.040 Nm³/h related to 7 bar.
- Complies to the requirements of the European directive 97/23/EG for pressure vessels.
- Plug connection guarantees that the elements remain safely fixed at all times.
- Different element sizes can be installed due to the modular design.

Ultrafilter P-EG

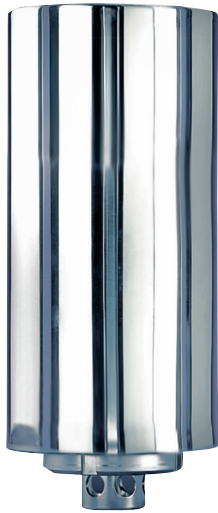
- The P-EG stainless steel housing was developed for purification of compressed air and other technical gases.
- With the optimized construction they offer low differential pressure at high flow rates.

Applications

- Breweries
- Chemical & pharmaceutical Industry
- Cosmetics Industry
- Dairies
- Food and beverages
- Water treatment systems
- Aseptic packing

| housing size | volume flow | | connection R/DN | filter element | | dimensions in mm (BSP-housing/ DIN Fl. from 0432) | | | | | weight in kg |
|--------------|------------------------------|------------------------------|--------------------|----------------|------|--|-------|-----|-------------|------------|--------------|
| | nominal m ³ /h | maximal m ³ /h | | size | qty. | height | width | Ø | con.-height | rem.height | |
| 0006 | 60 | 90 | R 3/8 | 03/10 | 1 | 220 | 108 | 70 | 55 | 90 | 2,0 |
| 0009 | 90 | 120 | R 1/2 | 04/10 | 1 | 248 | 105 | 70 | 55 | 120 | 2,1 |
| 0012 | 120 | 180 | R 1/2 | 04/20 | 1 | 248 | 108 | 70 | 55 | 120 | 2,2 |
| 0018 | 180 | 270 | R 3/4 | 05/20 | 1 | 272 | 125 | 70 | 55 | 150 | 2,4 |
| 0027 | 270 | 360 | R 1 | 05/25 | 1 | 298 | 125 | 85 | 74 | 150 | 3,2 |
| 0036 | 360 | 480 | R 1 1/4 | 07/25 | 1 | 350 | 140 | 85 | 74 | 200 | 3,7 |
| 0048 | 480 | 720 | R 1 1/2 | 07/30 | 1 | 388 | 170 | 104 | 94 | 200 | 5,1 |
| 0072 | 720 | 1080 | R 2 | 10/30 | 1 | 463 | 170 | 104 | 93 | 280 | 5,2 |
| 0108 | 1080 | 1440 | R 2 | 15/30 | 1 | 590 | 170 | 104 | 93 | 450 | 5,8 |
| 0144 | 1440 | 1920 | R 2 1/2 | 20/30 | 1 | 740 | 216 | 129 | 107 | 580 | 8,1 |
| 0192 | 1920 | 2880 | R 3 | 30/30 | 1 | 1002 | 216 | 129 | 111 | 850 | 9,6 |
| 0288 | 2880 | 4320 | R 3 | 30/50 | 1 | 1027 | 240 | 154 | 113 | 850 | 13,0 |
| 0432 | 4320 | 5760 | DN 100 | 20/30 | 3 | 1020 | 410 | 219 | 200 | 580 | 45,0 |
| 0576 | 5760 | 7680 | DN 100 | 30/30 | 3 | 1275 | 410 | 219 | 200 | 850 | 46,0 |
| 0768 | 7680 | 11520 | DN 150 | 30/30 | 4 | 1332 | 480 | 273 | 240 | 850 | 70,0 |
| 1152 | 11520 | 15360 | DN 150 | 30/30 | 6 | 1395 | 540 | 324 | 250 | 850 | 80,0 |
| 1536 | 15360 | 19200 | DN 200 | 30/30 | 8 | 1520 | 660 | 406 | 300 | 850 | 135,0 |

P-BE stainless steel housing for aeration of storage tanks



Features and advantages

- 12 different sizes for operating volumes from 3 to 1980 Nm³/h related to 1 bar.
- Complies to the requirements of the European directive 97/23/EG for pressure vessels.
- Different element sizes can be used due to the modular design. Apart from sterile filters, polypropylene or Teflon* membrane filters can be used.

Ultrafilter P-BE

- P-BE filter are used to ensure 100 % sterility in the storage of pharmaceutical products, chemicals, food or of fermenters.
- The two-part housing is user-friendly designed and has a splash protection to prevent liquids come in contact with the filter media.

Applications

- Breweries, Dairies
- Chemical & pharmaceutical Industry
- Cosmetics Industry
- Fermentation processes
- Food and beverages

| housing size | volume flow | | connection | filter element | | dimensions in mm | | weight in kg |
|--------------|-------------------------|------------|------------|----------------|------|------------------|-----|--------------|
| | im m ³ /h at | | | size | qty. | height | Ø | |
| | Δp 20 mbar | Δp 40 mbar | | | | | | |
| 0006 | 4,5 | 9 | DN 32 | 03/10 | 1 | 110 | 85 | 1,5 |
| 0027 | 12 | 24 | DN 40 | 05/25 | 1 | 168 | 104 | 2,2 |
| 0032 | 17 | 35 | DN 50 | 05/30 | 1 | 186 | 114 | 2,4 |
| 0072 | 35 | 70 | DN 50 | 10/30 | 1 | 312 | 114 | 3,3 |
| 0144 | 70 | 140 | DN 80 | 20/30 | 1 | 550 | 154 | 9,2 |
| 0192 | 105 | 210 | DN 80 | 30/30 | 1 | 805 | 154 | 11,5 |
| 0432 | 210 | 420 | DN 100 | 20/30 | 3 | 670 | 219 | 43,0 |
| 0576 | 315 | 630 | DN 100 | 30/30 | 3 | 925 | 219 | 44,0 |
| 0768 | 420 | 840 | DN 150 | 30/30 | 4 | 950 | 273 | 70,0 |
| 1152 | 630 | 1260 | DN 150 | 30/30 | 6 | 950 | 324 | 80,0 |
| 1536 | 840 | 1680 | DN 200 | 30/30 | 8 | 960 | 406 | 135,0 |
| 1920 | 1050 | 2010 | DN 200 | 30/30 | 10 | 960 | 406 | 135,0 |

PG-EG stainless steel housing for gas filtration in sanitary quality



Features and advantages

- 14 different sizes for operating volumes from 7,5 to 2.700 Nm³/h related to 7 bar.
- Complies to the requirements of the European directive 97/23/EG for pressure vessels.
- Plug connection guarantees that the elements remain safely fixed at all times.
- Different element sizes can be installed due to the modular design
- Condensate drain and de-aeration are equipped with pharma valves

Ultrafilter PG-EG

- The PG-EG stainless steel housing was developed for purification of compressed air and other technical gases in pharmaceutical, biotechnology or chemical industry.
- PG-EG housings are first choice in critical applications in sterile filtration.

Applications

- Breweries, dairies
- Chemical & pharmaceutical Industry
- Biotechnology
- Water treatment systems
- Food and beverages
- Fermentation processes

| housing size | volume flow | connection | filter element | | dimensions in mm | | | | | weight in kg |
|--------------|----------------------------|------------|----------------|------|------------------|-----|-----|-----|-----|--------------|
| | at 1 bar m ³ /h | | nom | size | qty. | A | B | C | D | |
| 0006 | 7,5 | DN 10 | 03/10 | 1 | 260 | 120 | 70 | 98 | 90 | 1,2 |
| 0018 | 22,5 | DN 15 | 05/20 | 1 | 315 | 120 | 70 | 98 | 150 | 1,4 |
| 0032 | 45,0 | DN 35 | 05/30 | 1 | 360 | 160 | 114 | 136 | 150 | 2,8 |
| 0048 | 60,0 | DN 32 | 07/30 | 1 | 410 | 160 | 114 | 126 | 200 | 3,1 |
| 0072 | 90,0 | DN 40 | 10/30 | 1 | 485 | 160 | 114 | 117 | 280 | 3,5 |
| 0108 | 135,0 | DN 50 | 15/30 | 1 | 610 | 160 | 114 | 125 | 450 | 4,0 |
| 0144 | 180,0 | DN 65 | 20/30 | 1 | 820 | 185 | 129 | 150 | 580 | 7,0 |
| 0192 | 270,0 | DN 80 | 30/30 | 1 | 1080 | 185 | 129 | 150 | 850 | 8,8 |
| 0432 | 540,0 | DN 100 | 20/30 | 3 | 1090 | 410 | 219 | 200 | 580 | 43,0 |
| 0576 | 810,0 | DN 100 | 30/30 | 3 | 1350 | 410 | 219 | 200 | 850 | 44,0 |
| 0768 | 1080,0 | DN 150 | 30/30 | 4 | 1410 | 480 | 273 | 240 | 850 | 70,0 |
| 1152 | 1620,0 | DN 150 | 30/30 | 6 | 1460 | 540 | 324 | 250 | 850 | 80,0 |
| 1536 | 2160,0 | DN 200 | 30/30 | 8 | 1600 | 660 | 406 | 300 | 850 | 135,0 |

PF-EG stainless steel housing for filtration of liquids



Features and advantages

- 12 different sizes for operating volumes from 3 to 600 l/min.
- Complies to the requirements of the European directive 97/23/EG for pressure vessels.
- Bajonet-connection guarantees that the elements remain safely fixed at all times.
- Different element sizes can be installed due to the modular design.
- DN 40 clamp connection at housing top.

Ultrafilter PF-EG

- The PF-EG stainless steel housing was developed for purification of liquids in pharmaceutical, biochemical and chemical processes, as well as for beverages.
- PF-EG housings are first choice in critical applications in sterile filtration.

Applications

- Breweries
- Dairies
- Biotechnology
- Chemical & pharmaceutical Industry
- food and beverages
- Water treatment systems
- Fermentation processes

| housing size | volume flow in l/min | connection | filter element | | dimensions in mm | | weight in kg |
|--------------|----------------------|------------|----------------|------------|------------------|-----|--------------|
| | | | size | connection | height | Ø | |
| 0003 | 3 | DN 10 | 03/10 | 1 | 280 | 180 | 1,4 |
| 0012 | 12 | DN 25 | 5/3 Code 7 | 1 | 375 | 250 | 3,9 |
| 0025 | 25 | DN 25 | 10/3 Code 7 | 1 | 505 | 250 | 4,8 |
| 0050 | 50 | DN 25 | 20/3 Code 7 | 1 | 765 | 250 | 6,1 |
| 0075 | 75 | DN 25 | 30/3 Code 7 | 1 | 1025 | 250 | 7,4 |
| 0080 | 80 | DN 40 | 10/3 Code 7 | 3 | 690 | 330 | 14,1 |
| 0150 | 150 | DN 40 | 20/3 Code 7 | 3 | 935 | 330 | 16,5 |
| 0225 | 225 | DN 40 | 30/3 Code 7 | 3 | 1205 | 330 | 19,6 |
| 0250 | 250 | DN 50 | 20/3 Code 7 | 5 | 965 | 400 | 20,6 |
| 0375 | 375 | DN 50 | 30/3 Code 7 | 5 | 1215 | 400 | 23,6 |
| 0400 | 400 | DN 65 | 20/3 Code 7 | 8 | 985 | 500 | 33,6 |