ULTRAFILTER
THE FILTRATION MANUFACTURER

Kronsbein ultrafilter ®

Process Filter P-GS

Sterile Filter of Sintered Steel for Gases, Liquids and Steam

P-GS Sterile Filter

Ultrafilter P-GS

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

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

Features and Advantages

- Good durability against most liquids, aggressive gases and steam.
- 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

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

Features	Benefits
Filter medium and end caps made of stainless steel	Good durability against most liquids, gases and aggressive steams
Retention rate of 1 µm, 5 µm and 25 µm (98% efficiency for steam and 100 % efficiency for gases)	Exactly defined particle retention rate at given pore size
Sintered stainless steel filter medium with a porosity level of more than 50 %	High dirt holding capacity, good flow rate at low differential pressure
Regenerable with ultrasonic bath	Filtration costs reduced to a minimum, in particluar for hight dirt load
Stainless steel sintering technology	No use of additives or other chemical binders needed
Available in 13 sizes	Optimum filter size for indivdual application
Components made of stainless steel	Temperature range from -20 °C up to 210 °C

Materials	
Filter media	Sintered SS 1.4404
End caps	SS 1.4301
Bonding material	Plastic Steel*
O-Rings	EPM**

* > 150 °C welded endcaps
** Silicone, Buna N, Viton, Fluoraz on request

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Ultrafilter BeLux
Beta Solutions B.V.
Begoniastraat 36 - 9810 Nazareth - Belgium
Tel: +32 (0)9 324 88 63
e-Mail: info@ultra-filter.be - www.ultra-filter.be

P-GS Sterile Filter

Filtration Surface:
494 cm² per 10" Element (10/30) (250 mm)

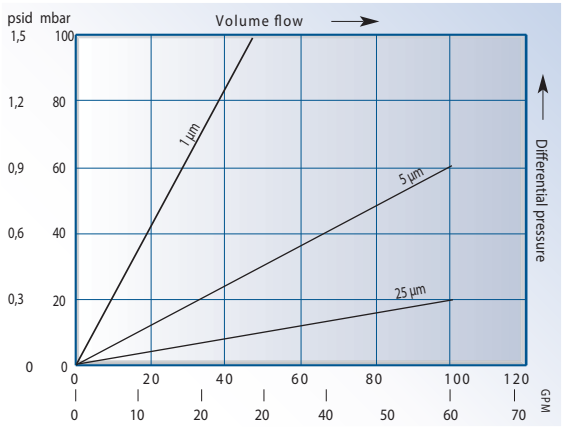
Absolute Retention Rate:
1 µm to 25 µm

Temperature Range:
-20 °C bis 210 °C

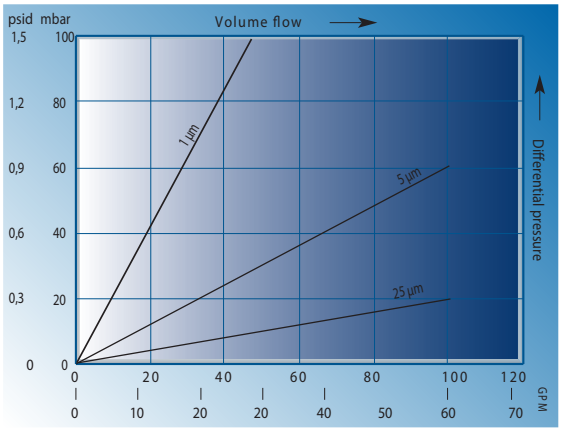
Max. Differential Pressure:
5 bar

Conversion Factor for Steam Temperature					
Steam temperature	°C	110	121	140	160
	°F	212	250	285	320
Conversion factor		0,5	1	2	3

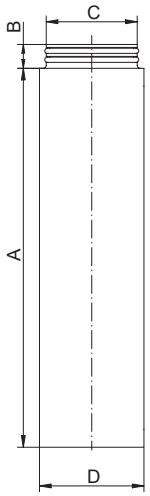
Flow rate of a 10'' P-GS element – air (1bar, 20 °C)



Flow rate of a 10'' P-GS element – saturated steam 121 °C



Dimensions					
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	3"	140	5,89



Technical Alternations reserved

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