

Ultrex® P-GS

Filter for the removal of particles from gases, liquids and steam

Product description

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

Features

The Ultrex® filter retains contaminants, such as particles, abrasion of valves and sealings as well as rust. An improved steam quality ensures longer service life of the filters to be sterilized and increases the efficiency of the entire process. The Ultrex® filter element offers the possibility of a particularly economic filtration, since the filter medium can be regenerated by ultrasonic bath. This is especially essential at high particle loads. The porosity level is more than 50%, ensuring high particle and dirt holding as well as a good flow rate at a low differential pressure.

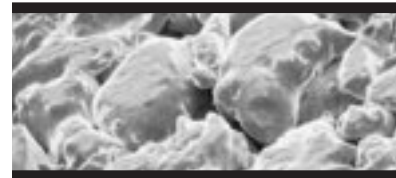
Applications

The Ultrex® filter, among other Donaldson filters, is designed and developed for:

- Breweries
- Chemical industry
- Pharmaceutical industry
- Food and beverage
- Aseptic packaging
- Electronic industry
- Dairy industry
- Plastic industry



Ultrex® P-GS sintered stainless steel steam filter



SEM of Ultrex® media

Features	Benefits
Filter medium and endcaps made from 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
Available in 13 sizes	Optimum filter size for the individual application
Regenerable with ultrasonic bath	Filtration costs reduced to a minimum, especially for high dirt load
Components made from stainless steel	Permanent operation at temperatures from -4°F to 410°F
Stainless steel sintering technology	No use of additives or other chemical binders needed

Dimensions					
Element size	A (inches)	B (inches)	ØC (inches)	ØD (inches)	Correction Factor
03/10	3	0.5	.75	1.65	0.12
04/10	4	0.5	.75	1.65	0.17
04/20	4	0.55	1	2	0.19
05/20	5	0.55	1	2	0.25
05/25	5	0.55	1	2.44	0.32
07/25	7	0.55	1	2.44	0.47
05/30	5	0.6	2	3.4	0.46
07/30	7	0.6	2	3.4	0.68
10/30	10	0.6	2	3.4	1.00
15/30	15	0.6	2	3.4	1.55
20/30	20	0.6	2	3.4	2.10
30/30	30	0.6	2	3.4	3.28
30/50	30	0.6	3	5.5	5.89

Materials	
Filter medium:	Sintered SS 316L
End caps:	Stainless steel 304
Bonding material:	Plastic steel*
O-Rings:	EPDM**

* > 300°F welded end caps required
 ** Silicone, Buna N, Viton®, Aflas or Kalrez on request
 ***Viton is a registered trademark of E.I. du Pont de Nemours and Company

Absolute retention rates
1 µm, 5 µm, 25 µm

Filtration surface
.5 ft ² for 10" element (10/30)

For other sizes see correction factor

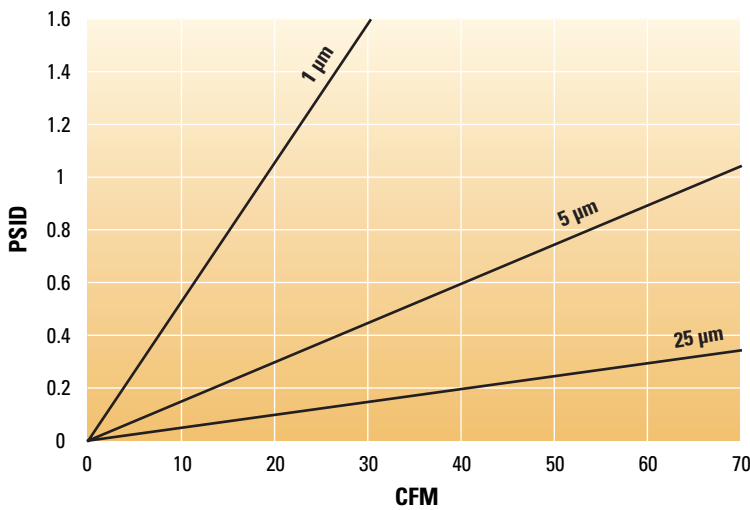
Maximum differential pressure	
Operating temp.	Differential pressure
70° F	75 psid

Temp. range (constant operation)
-4° F to 410° F*

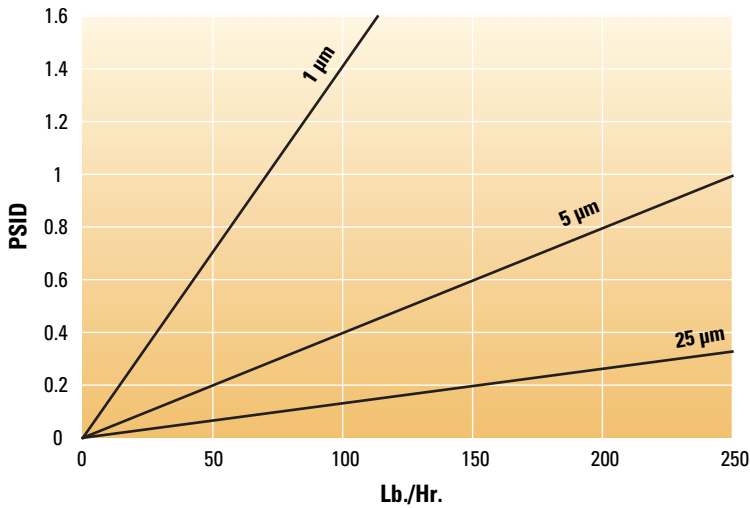
* > 300° F welded end caps required

Conversion factor for steam temp.				
Steam temp. (°F)	212	250	285	320
Conversion factor	0.5	1	2	3

Air



Steam



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