

Ultramesh® P-SM

Pre- and final filter with with absolute retention rates for particle removal from aqueous solutions, water, liquids, and gases

Product Description

Ultramesh P-SM filters are constructed entirely of stainless steel, including the wire mesh media, end caps and inner support core. The retention rate extends from 5 µm up to 250 µm.

Features

Ultramesh P-SM filters are very economical: the stainless steel mesh can be regenerated many times in an ultrasonic bath or via back-flush, allowing for long filter life. The contact points of the mesh material are welded firmly together, which ensures constant pore diameter even under extreme operating conditions.

The heavy-duty construction of the Ultramesh filter makes it suitable for high-viscosity liquids. The filter withstands a differential pressure of up to 75 psid (flow from outside to inside). Ultramesh can be used in temperatures up to 390°F.



Ultramesh® P-SM is a regenerable stainless steel mesh filter for liquids, air, and gases

Applications

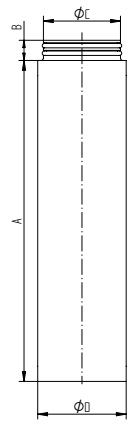
- Water filtration
- Solvents
- Food and beverage
- Cosmetics
- Salt- and Seawater
- Compressed air and other gases
- Chemicals
- Pharmaceutical industry
- Syrup
- Paints
- Coolants

Features	Benefits
Filter media, end caps, and inner support are stainless steel	Good durability against most liquids and gases
Heavy-duty construction	Can also be used for high-viscosity liquids
Welded contact points of the filter media	Constant pore diameter under all operating and process conditions
Multi-layered stainless steel mesh media	Absolute retention rate from 5 µm up to 250 µm
	Optimum filter size for the individual application
Ultrasonic bath	Minimum filtration costs, especially at high contaminant load
	Temperature range from -60°F up to 390°F
	In-line-installation, ease of operation



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 Richmond, VA
<http://fpcfilters.com>
 (804) 231-4646

Dimensions					
Element size	A (inches)	B (inches)	ØC* (inches)	ØD* (inches)	Correction Factor**
03/10	3	0.5	1.2	1.65	0.12
04/10	4	0.5	1.2	1.65	0.17
04/20	4	0.55	1.5	2	0.19
05/20	5	0.55	1.5	2	0.25
05/25	5	0.55	1.5	2.44	0.32
07/25	7	0.55	1.5	2.44	0.47
05/30	5	0.6	2.5	3.4	0.46
07/30	7	0.6	2.5	3.4	0.68
10/30	10	0.6	2.5	3.4	1.00
15/30	15	0.6	2.5	3.4	1.55
20/30	20	0.6	2.5	3.4	2.10
30/30	30	0.6	2.5	3.4	3.28
30/50	30	0.6	2.5	5.5	5.89



*Plug-type connection with double o-ring
 **Correction factor filtration surface

Filtration surface
 1/2 ft² for 10" element (10/30)
 For other sizes see correction factor

Regeneration
 Ultrasonic bath
 Back-flush ($\Delta p < 14.5$ psid)

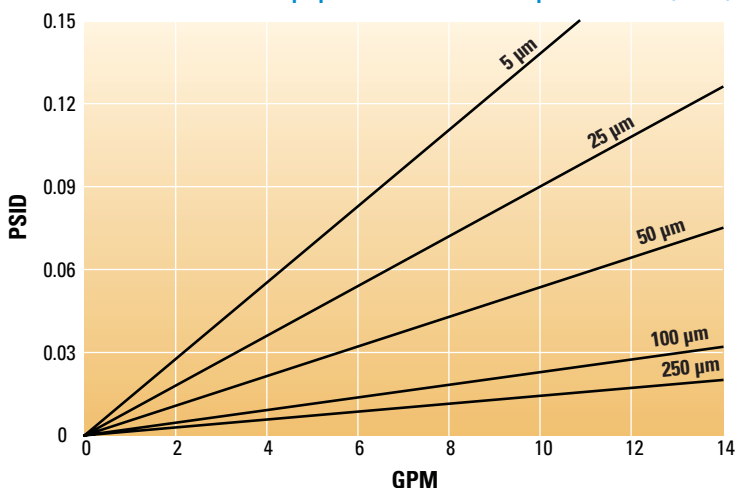
Temperature range
 -60°F to 390°F*
 * > 300°F welded end caps, > 390°F on request

Absolute retention rate
 5 µm, 25 µm, 50 µm, 100 µm, 250 µm

Materials	
Filter medium:	304 stainless mesh
Inner core:	304 stainless steel
End caps:	304 stainless steel
Bonding material:	Plastic steel*
O-Rings:	EPDM**

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

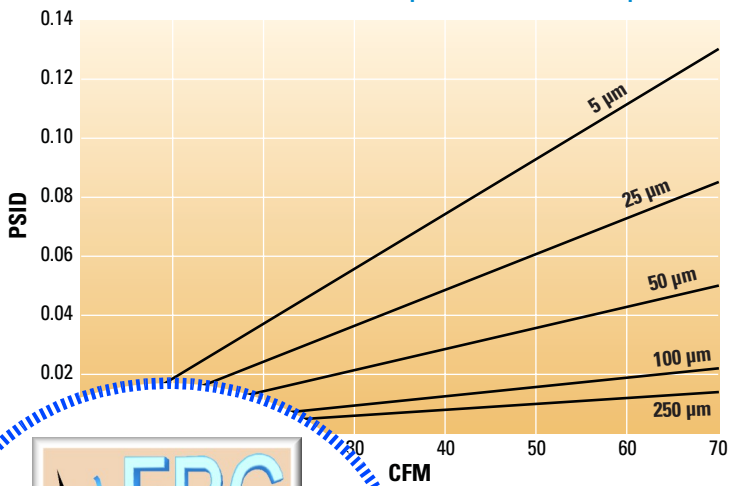
P-SM Pressure Drop per Ten Inch Equivalent (TIE) -- Water



Maximum differential pressure*	
Operating temperature	Differential pressure
70°F	73 psid

* In flow-through direction (outside to inside) only

P-SM Differential Pressure per Ten Inch Equivalent (TIE) -- Air



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