



**ULTRAFILTER**  
THE FILTRATION MANUFACTURER

*Kronsbein ultrafilter*®



## Process Filter P-SM

Pre- and Final Filter with Absolute Retention Rate

# P-SM Mesh Filter

## 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 end caps. The retention rate extends from 5 µm up to 250 µm.

## 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.

## Applications

- Water filtration
- Chemicals
- Solvents
- Biological liquids
- Pharmaceuticals
- Food and beverages
- Cosmetics
- Coolants
- Syrup

Features	Benefits
Filter media, outer guard and end caps are made of 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
Multiple regeneration with ultrasonic bath	Minimum filtration costs, especially at high contaminant load
All stainless steel construction	Temperature range from -50°C up to 200°C
Backflushable	In-line-installation, ease of operation

Materials	
Filter media	SS mesh 1.4301
End caps	SS 1.4301
Bonding materia	Plastic Steel*
O-Rings	EPM **
* > 150°C welded end caps ** Silicone, Buna N, Viton, Fluoraz on request	

# P-SM Mesh Filter

## Filtration Surface:

494 cm<sup>2</sup> per 10" Element (10/30) (250 mm)

## Absolute Retention Rate:

5 μm, 25 μm, 50 μm, 100 μm, 250 μm

## Temperature Range:

-20 °C to 200 °C\*

\* > 150 °C welded end caps  
> 200 °C on request

## Max. Differential Pressure:

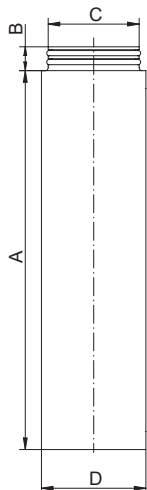
5 bar

## Regeneration:

Ultrasonic bath

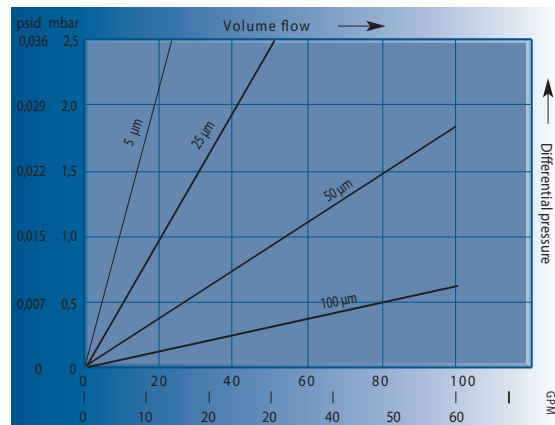
## Dimensions

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	2"	140	5,89



Technical alterations reserved.

Flow rate of a 10" P-SM element – air



Flow rate of a 10" P-SM element – water

