



## **Process Filter P-GS VE**

Filter of Sintered Steel for Gases,  
Liquids and Steam

# P-GS Filter

## P-GS Filter

The 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 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 and back-flushing.
- Welded End Caps

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 and back-flushing	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 individual application
Components made of stainless steel	Temperature range from -20 °C up to 210 °C (-4°F up to 428°F)

## Applications

- Breweries
- Chemical Industry
- Fermentation processes
- Plastic industry

Materials	
Filter media	Sintered SS 1.4404 (316L)
End caps	SS 1.4301 (304)
O-Rings	EPM**
> 180 °C (302°F) welded endcaps ** Silicone, Buna N, Viton, Fluoraz on request	

# P-GS Filter

## Filtration Surface:

0,049 m<sup>2</sup> (5,3 ft<sup>2</sup>) per 10" Element (10/30) (250 mm)

## Absolute Retention Rate:

1 µm, 5 µm, 25 µm

## Temperature Range:

-20 °C bis 210 °C [-4°F up to 428°F]

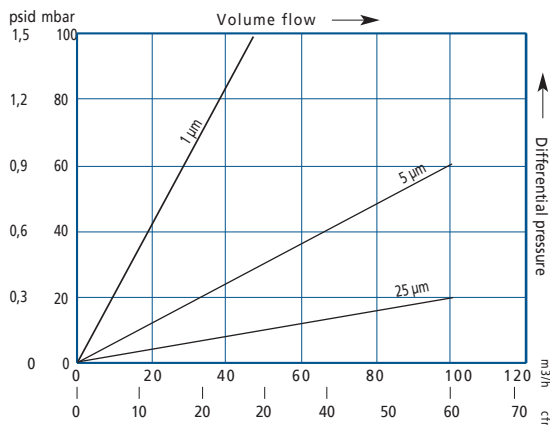
## Max. Differential Pressure:

5 bar (72,5 psi)

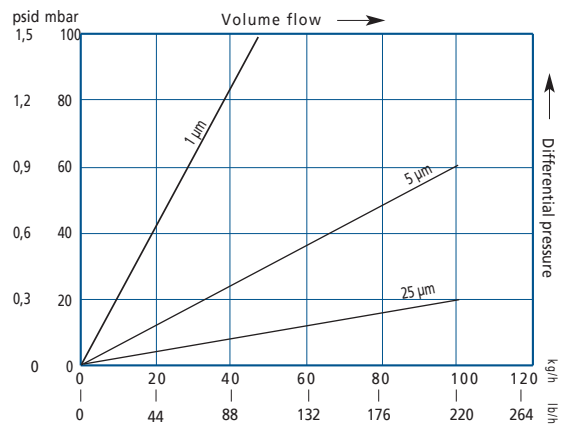
## Conversion Factor for Steam Temperature

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)

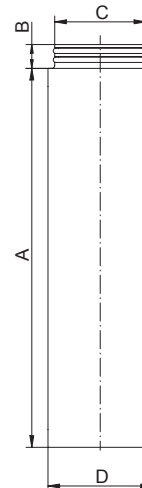


Flow rate of a 10" P-GS element – saturated steam 121 °C



## Dimensions

Element Size	A		B		Ø C		Ø D		Correction Factor
	mm	inch	mm	inch	mm	inch	mm	inch	
03/10	76	3,00	11	0,44	30	1,19	34	1,34	0,12
04/10	104	4,10	11	0,56	30	1,19	34	1,34	0,17
04/20	104	4,10	14	0,56	37	1,46	44	1,74	0,19
05/20	128	5,04	14	0,56	37	1,46	44	1,74	0,25
05/25	128	5,04	14	0,56	37	1,46	54	2,13	0,32
05/30	128	5,04	16	0,63	61	2,41	76	3,00	0,46
07/25	180	7,09	14	0,56	37	1,46	54	2,13	0,47
07/30	180	7,09	16	0,63	61	2,41	76	3,00	0,68
10/30	254	10,01	16	0,63	61	2,41	76	3,00	1,00
15/30	381	15,01	16	0,63	61	2,41	76	3,00	1,55
20/30	510	20,08	16	0,63	61	2,41	76	3,00	2,10
30/30	764	30,08	16	0,63	61	2,41	76	3,00	3,28
30/50	764	30,08	16	0,63	89	3,51	132	5,2,0	5,89



Technical Alternations reserved