

# **Process filter P-GS** **sterile filter of sintered steel** **for gases, liquids and steam**



## **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 weldless filter pipe made from sintered stainless steel. The retention rate extends from 1  $\mu\text{m}$  to 25  $\mu\text{m}$ .

## **Features and advantages**

- Good durability against most liquids, aggressive gases and steams.
- 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**

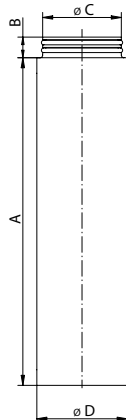
- Aseptic packing
- Breweries
- Chemical Industry
- Dairy industry
- Electronic industry
- Fermentation processes
- food and beverages
- Pharmaceutical Industry
- Plastic industry

# P-GS sterile filter

Features:	Benefits:
Filter medium and endcaps 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 individual application
Components made of stainless steel	Temperature range from -20 °C up to 210 °C

Conversion factor for steam temperature				
Steam temperature °C	110	121	140	160
temperature °F	212	250	285	320
Conversion factor	0.5	1	2	3

Dimensions:					
Element size	A mm	B mm	Ø C*	Ø D mm	CF
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	0,25
05/25	128	14	1"	62	0,32
07/25	180	14	1"	62	0,47
05/30	128	16	2"	86	0,46
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



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

\* > 150°C welded endcaps  
 \*\* Silicone, Buna N, Viton, Aflas or Kalrez on request

Filtration surface
494 cm <sup>2</sup> per 10" element (10/30) (250 mm)

Absolute retention rate
1 µm, 5 µm, 25 µm

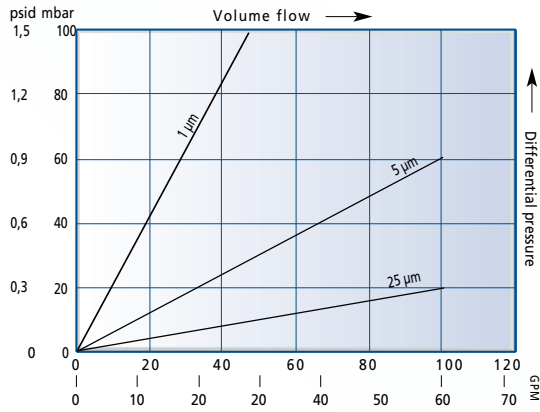
Temperature range
-20 °C to 210 °C

Max. differential pressure
5 bar

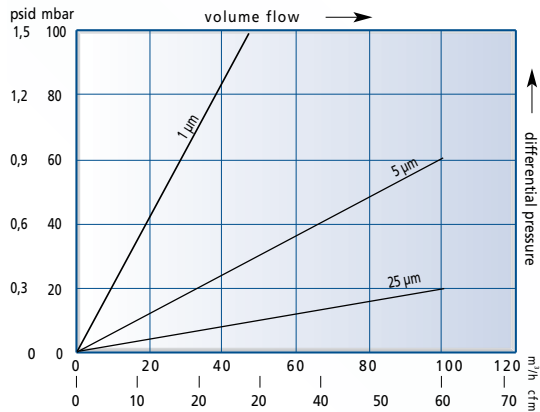
Technical Alternations reserved.

# P-GS sterile filter

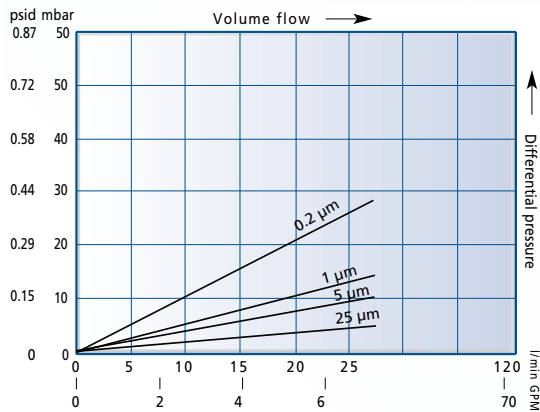
Flow rate of a 10'' P-GS element – air (1bar, 20 °C)



Flow rate of a 10'' P-GS element – steam



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



Technical Alternations reserved.