

# ultrex® P-GS

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

## 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 sterilised 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% which ensures high particle and dirt holding as well as a good flow rate at a low differential pressure. The heavy-duty construction of the ultrex® filter is designed to withstand a maximum differential pressure up to 5 bar (75 psid). The filter may also be used in a temperature range of -20°C (-4°F) up to 210°C (410°F).

## Applications:

The ultrex® filter is, among others, designed and developed for the following applications:

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

## Materials:

Filter medium: Sintered SS  
1,4404 (316L)  
Endcaps: Stainless steel  
1,4301 (304)  
Bonding material: Plastic steel\*  
O-Rings: EPDM\*\*

\* > 150°C welding endcaps

\*\* Silicone, Buna N, Viton, Aflas or Kairez on request

## Absolute retention rates:

1 µm, 5 µm, 25 µm

## Maximum differential pressure:

Operating temp ≤ 20°C (70°F)

Differential pressure ≤ 5.0 bar (75 psid)

CONVERSION FACTOR FOR STEAM TEMPERATURE					
Steam	°C	100	121	140	160
Temperature	°F	212	250	285	320
Conversion factor		0,5	1	2	3



The ultrex® P-GS – sintered stainless steel steam filter

DIMENSIONS						
ELEMENT SIZE	A	B	Ø C o.d. nominal width	Ø D	CF	
03/10	76	12	31.0 (3/4")	42	0.12	
04/10	104	12	31.0 (3/4")	42	0.17	
04/20	104	14	38.5 (1")	52	0.19	
05/20	128	14	38.5 (1")	52	0.25	
05/25	128	14	38.5 (1")	62	0.32	
07/25	180	14	38.5 (1")	62	0.47	
05/30	128	16	63.0 (2")	86	0.46	
07/30	180	16	63.0 (2")	86	0.68	
10/30	254	16	63.0 (2")	86	1.00	
15/30	381	16	63.0 (2")	86	1.55	
20/30	508	16	63.0 (2")	86	2.10	
20/30	762	16	63.0 (2")	86	3.28	
30/50	762	16	91.0 (3")	140	5.89	