

# STAINLESS STEEL & PTFE ELEMENTS

## Features:

- High Strength / No Media Migration
- Wide Micron Range: 0.5, 1, 3, 10, 25, 50, 100, 200
- Special Order Micron Sizes Available
- Re-Cleanable / Back-Flushed
- Temperature Range of -65°F to 1000°F
- Able To Withstand 1000 PSIG Differential

## Applications:

- Sample Process Filters
- Viscous Filtration
- Corrosive Service
- For Service In High Pressure Swing Systems



**Stainless Steel** elements are recommended for filtration of heavily contaminated gases, liquids, polymers, and steam, since they are re-cleanable by back-flushing or ultrasonic cleaning. The elements consist of five layers of precision-woven 316L stainless steel mesh formed into cylinders and sintered together.

Five layers offer surface area and depth area for removing solids and dropping out liquids. This rigid, durable construction provides precise pore size distribution, flow permeability and lower initial pressure drop. The entire element is then sintered at high temperature in a controlled atmosphere furnace to diffusion bond all the layers at every contact point. This creates a bonded media that is strong, ductile and corrosion resistant.

We offer seven standard grades of filtration, which fit our Headline Filters line of housings, as well as other proprietary brands. Micron Sizes: 0.5, 1, 3, 10, 25, 50, 100, 200 at 98% efficiency in gases and liquids. Grade 25 (25 micron) is widely used to protect pumps and valves while grade 03 (3 micron) is recommended for removal of pipe scale from steam. The SS Elements are environmentally friendly because they are durable and non-absorbent, they can be backwashed, cleaned and reused, thus eliminating a major disposal headache.

This unique construction makes our stainless steel elements a good choice for maintenance free **hospital steam sterilizer** applications. The multiple layers of mesh act as a very effective water condensate filter. The elements come complete with Teflon seals/adaptors, which allow them to be used in Balston, Headline, or UFS Filter Housings.

Non-standard and exotic filters are supplied in sintered metal rather than woven mesh. We can provide down to 0.5 micron in this format.

We offer a wide variety of **Stack Gas Filter Probe** elements built to your specifications. Simply contact us with your details and we will provide a quick and comprehensive quote.



United Filtration Systems, Inc.  
6558 Diplomat Drive  
Sterling Heights, MI 48314  
T (586) 802-5561 • F (586) 802-5562  
sales@unitedfiltration.com  
www.unitedfiltration.com

1-800-311-5561



Partner of Headline Filters

# STAINLESS STEEL & PTFE ELEMENTS

## Features:

- Corrosion Resistant
- For Use In Our PTFE And Kynar Housings
- Naturally Hydrophobic
- 3, 10, And 25 Micron

## Applications:

- Corrosive Service
- High Purity Gas Service
- CNG Filtration



PTFE filter elements are recommended for compressed gas and liquid filtration where our microfiber and stainless steel elements are unsuitable. They are obviously suggested with our PTFE and Kynar housings. The elements consist of pure PTFE sintered (under pressure) into cylinders. The "PT" elements have outstanding chemical compatibility and extreme hydrophobic characteristics, which make them ideal for liquid sampling applications. No end caps or gasketing materials are required for a positive seal.

Custom units: If you are looking for a custom element, please contact us with your specific needs. We regularly provide the SS elements with male connectors for stack gas monitoring and PTFE elements in other dimensions.

## PRINCIPLE SPECIFICATIONS

Stainless Steel Model Number	PTFE Model Number	Dimensions I.D. x Length
SS-12-32-	PT-12-32-	0.5" X 1.25"
SS-12-57-	PT-12-57-	0.5" X 2.25"
SS-12-127	PT-12-127-	0.5" X 5.00"
SS-25-64-	PT-25-64-	1.0" X 2.50"
SS-25-178-	PT-25-178-	1.0" X 7.00"
SS-38-152-	N/A	1.5" X 6.00"
SS-51-230-	PT-51-230-	2.0" X 9.00"
SS-51-460- (For Steam Housing)	N/A	2.0" X 18.11"
SS-51-476-	PT-51-476-	2.0" X 18.75"

### Ordering Information:

The stainless steel elements are provided with a PTFE gasket set standard designated by "T", or with a Viton seal designated by a "V" at no additional charge. A grafoil gasket set is also available for temperatures between 500°F and 1000°F and are designated by a "G". There is a nominal charge for grafoil. Enter the gasket material after part number; example: SS-12-57-25T. The PTFE elements do not require gaskets.

Maximum temperature of PTFE gaskets and elements is 500°F  
 Maximum temperature of Viton gaskets and elements is 400°F  
 Maximum temperature of Grafoil gaskets and elements is 1000°F



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