

# Stainless Steel Ultra High Pressure Housings



Our standard 100 stainless steel filter series is also offered at 3000, 6000 and 1000 PSIG ratings to cover virtually every possible gas and liquid application. These units are constructed of 100% machined components. There are no welds, which allow the housings to comply with NACE MR-01-75. This simple, but effective design provides ultimate and safe filtration in extreme working conditions. The range comes standard with 1/8" FNPT to 2" FNPT ports, and we have the ability to produce many of these models with flanges, socket welds, or SAE connections.

Many of these are on the shelf for immediate delivery, but we are able to customize the units to meet your exact requirements.

Stainless steel and PTFE elements are available for heavily contaminated systems, and where compatibility is an issue. Please see back cover for further information.



**United Filtration Systems, Inc.**  
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Partner of Headline Filters

SP100-1

# 10,000 PSIG STAINLESS STEEL HOUSINGS

## Features:

- 316L Stainless Steel Construction
- Pressure To 10,000 PSIG, Temperature To 900°F
- Compact Designs For Fast Response Times
- Free From Welds NACE Complaint
- Available in Hastelloy, Monel, Etc.



The 110HP and 120HP series of filters are ideal for use with gaseous and liquid sample process analyzers, fuel cell filtration, as well as other high-pressure requirements. The small internal volume, compact design, and positive O-ring sealing mechanism make them perfect for demanding analyzer applications. They are constructed entirely of 316L stainless steel and are free of welds to comply with NACE MR-10-75.

These housings are also available with a PTFE seal, which requires a modified sealing design: simply add an "S" to the housing code, e.g. 112SHP. **PTFE seals cannot be retrofitted into standard housings originally having a Viton O-ring.** A high temperature gasket can only be fitted into the S version housing.

## Applications:

- Alternative Fuel Protection
- Injection Pumps
- CNG Boosters



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## PRINCIPLE SPECIFICATIONS

Housing Model w/ Drain	110HP	112HP	120HP	122HP
Housing Model w/o Drain	114HP	116HP	124HP	126HP
Port Size (NPT)	1/8"	1/4"	1/8"	1/4"
Drain Type (NPT)	1/8"	1/4"	1/8"	1/4"
Maximum Pressure (psig) (1)	10,000	10,000	10,000	10,000
Internal Volume (cc)	26	26	40	40
Maximum Temp. -Buna-N (250°F)	BN110HP	BN110HP	BN110HP	BN110HP
Maximum Temp. -EPDM (300°F)	GE110HP	GE110HP	GE110HP	GE110HP
Maximum Temp. -Viton (400°F)	GV110HP	GV110HP	GV110HP	GV110HP
Maximum Temp. -Silicone (450°F)	GS110HP	GS110HP	GS110HP	GS110HP
Maximum Temp. -PTFE (400°F)	GP110SHP	GP110SHP	GP110SHP	GP110SHP
Maximum Temp. -Kalrez (600°F)	KZ110HP	KZ110HP	KZ110HP	KZ110HP
Maximum Temp. -Carbon (900°F)	GNA110SHP	GNA110SHP	GNA110SHP	GNA110SHP
Principle Dimensions: (inches)				
Center Of Port To Head	0.86	0.86	0.86	0.86
Head Diameter	2.56	2.56	2.56	2.56
Overall Length	4.13	4.13	5.12	5.12
Element Removal Clearance	1.57	1.57	2.56	2.56
Filter Element Codes: (2)				
Disposable Element	12-32-□	12-32-□	12-57-□	12-57-□
Stainless Steel Element	SS-12-32-□	SS-12-32-□	SS-12-57-□	SS-12-57-□
PEL Element	PEL-12-32-□	PEL-12-32-□	PEL-12-57-□	PEL-12-57-□
PTFE Element	PT-12-32-□	PT-12-32-□	PT-12-57-□	PT-12-57-□
Materials Of Construction: (3)				
Head & Internals	316LSS	316LSS	316LSS	316LSS
Bowl	316LSS	316LSS	316LSS	316LSS
O-Rings	Viton	Viton	Viton	Viton
Accessories:				
Mounting Bracket	MBSS130	MBSS130	MBSS130	MBSS130
Support Core	SC110	SC110	SC120	SC120

## FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C <sup>(4)</sup> or 70C <sup>(5)</sup>

Air Line Pressure (PSIG)	110HP Series		120HP Series	
	50C	70C	50C	70C
15	2	6	3	7
30	3	9	4	10
60	4	14	7	17
100	6	23	11	27
150	9	31	15	36
250	13	47	23	56
500	25	91	44	108
1500	76	279	133	330
3000	151	557	265	659
5000	256	940	468	1118
10,000	447	1880	765	1912

- Notes: (1) Above 400°F pressure ratings are reduced, consult UFS for exact rating at specific temperature  
 (2) Replace '□' with grade required, e.g. 12-32-50C, PT-12-57-03  
 (3) Material abbreviations, 316LSS = 316L Stainless Steel  
 (4) Flow rates for Grade 50C rated at 99.99% against 0.01 micron  
 (5) Flow rates for Grade 70C rated at 95% against 0.01 micron

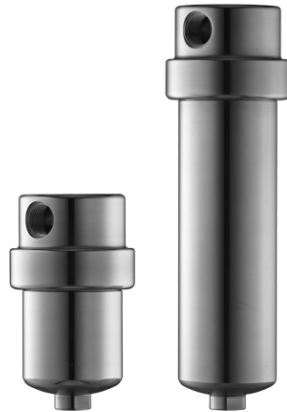
# 3,000 PSIG STAINLESS STEEL HOUSINGS

## Features:

- 316L Stainless Steel Construction
- Compact Design
- 3,000 PSIG Rated
- 3 Port Housings For Coalescing, Or Bypass
- Ideal For CNG Filtration

## Applications:

- Alternative Fuel Production
- Cryogenic Production
- Gas Plant Sampling



The 130HP and 140HP series of filters are ideal for use with gaseous and liquid process filtration. Their rugged, yet simple design makes them a faultless solution for CNG applications as well as other high-pressure requirements. The small internal volume and compact design help eliminate carry-over during system start-up. For systems with heavy liquid content a shorter element may be easily installed to increase reservoir space.

These housings are also available with a PTFE seal, which requires a modified sealing design: simply add an "S" to the housing code, e.g. 130SHP. PTFE seals cannot be retrofitted into standard housings originally having a Viton O-ring. A high temperature gasket can only be fitted into the S version housing only.

## PRINCIPLE SPECIFICATIONS

Housing Model	130HP	132HP	140HP	142HP
Housing Model w/o Drain	134HP	136HP	144HP	146HP
Port Size (NPT)	1/4"	1/2"	1/4"	1/2"
Drain Type (NPT)	1/4"	1/4"	1/4"	1/4"
Maximum Pressure (psig)	3000	3000	3000	3000
Internal Volume (cc)	115	115	300	300
Maximum Temp. -Buna-N (250°F)	BN130HP	BN130HP	BN130HP	BN130HP
Maximum Temp. -EPDM (300°F)	GE130HP	GE130HP	GE130HP	GE130HP
Maximum Temp. -Viton (400°F)	GV130HP	GV130HP	GV130HP	GV130HP
Maximum Temp. -Silicone (450°F)	GS130HP	GS130HP	GS130HP	GS130HP
Maximum Temp. -PTFE (400°F)	GP130SHP	GP130SHP	GP130SHP	GP130SHP
Maximum Temp. -Kalrez (600°F)	KZ130HP	KZ130HP	KZ130HP	KZ130HP
Maximum Temp. -Carbon (900°F)	GNA130SHP	GNA130SHP	GNA130SHP	GNA130SHP
Principle Dimensions: (inches)				
Center Of Port To Head	0.59	0.59	0.59	0.59
Head Diameter	2.52	2.52	2.52	2.52
Overall Length	5.07	5.07	9.56	9.56
Element Removal Clearance	2.75	2.75	7.24	7.24
Filter Element Codes: (1)				
Disposable Element	25-64-□	25-64-□	25-178-□	25-178-□
Stainless Steel Element	SS-25-64-□	SS-25-64-□	SS-25-178-□	SS-25-178-□
PEL Element	PEL-25-64-□	PEL-25-64-□	PEL-25-178-□	PEL-25-178-□
PTFE Element	PT-25-64-□	PT-25-64-□	PT-25-178-□	PT-25-178-□
Materials Of Construction: (2)				
Head & Internals	316LSS	316LSS	316LSS	316LSS
Bowl	316LSS	316LSS	316LSS	316LSS
O-Rings	Viton	Viton	Viton	Viton
Accessories:				
Mounting Bracket	MBSS130	MBSS130	MBSS130	MBSS130
Support Core	SC130	SC130	SC140	SC140

## FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C <sup>(3)</sup> or 70C <sup>(4)</sup>

Air Line Pressure (PSIG)	130 Series		140 Series	
	50C	70C	50C	70C
15	6	11	10	13
30	8	16	15	19
60	13	26	25	32
100	21	44	40	50
150	29	58	55	68
250	45	89	83	106
500	87	173	163	209
1500	282	524	488	627
3000	518	1047	988	1247

- Notes: (1) Replace '□' with grade required, e.g. 25-64-50C, PT-25-178-03  
 (2) Material abbreviations, 316LSS = 316L Stainless Steel  
 (3) Flow rates for Grade 50C rated at 99.99% against 0.01 micron  
 (4) Flow rates for Grade 70C rated at 95% against 0.01 micron



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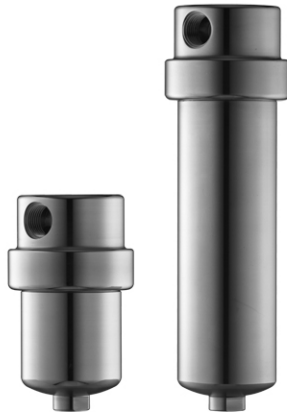
# 6,000 PSIG STAINLESS STEEL HOUSINGS

## Features:

- 316L Stainless Steel Construction
- Compact Design
- 6,000 PSIG Rated
- 3 Port Housings For Coalescing, Or Bypass
- Ideal For CNG Filtration

## Applications:

- High Pressure Liquid Service
- Chemical Processing
- Aerospace Filtration



The 130HHP and 140HHP series of filters are ideal for use with gaseous and liquid process filtration. Their rugged, yet simple design makes them a faultless solution for CNG applications as well as other high-pressure requirements. The small internal volume and compact design help eliminate carry-over during system start-up. For systems with heavy liquid content a shorter element may be easily installed to increase reservoir space.

These housings are also available with a PTFE seal, which requires a modified sealing design: simply adding an "S" to the housing code, e.g. 130SHHP. PTFE seals cannot be retrofitted into standard housings originally having a Viton O-ring. A high temperature gasket can only be fitted into the S version housing only.

## PRINCIPLE SPECIFICATIONS

Housing Model	130HHP	132HHP	140HHP	142HHP
Housing Model w/o Drain	134HHP	136HHP	144HHP	146HHP
Port Size (NPT)	1/4"	1/2"	1/4"	1/2"
Drain Type (NPT)	1/4"	1/4"	1/4"	1/4"
Maximum Pressure (psig)	6000	6000	6000	6000
Internal Volume (cc)	160	160	320	320
Maximum Temp. -Buna-N (250°F)	BN130HHP	BN130HHP	BN130HHP	BN130HHP
Maximum Temp. -EPDM (300°F)	GE130HHP	GE130HHP	GE130HHP	GE130HHP
Maximum Temp. -Viton (400°F)	GV130HHP	GV130HHP	GV130HHP	GV130HHP
Maximum Temp. -Silicone (450°F)	GS130HHP	GS130HHP	GS130HHP	GS130HHP
Maximum Temp. -PTFE (400°F)	GP130SHHP	GP130SHHP	GP130SHHP	GP130SHHP
Maximum Temp. -Kalrez (600°F)	KZ130HHP	KZ130HHP	KZ130HHP	KZ130HHP
Maximum Temp. -Carbon (900°F)	GNA130SHHP	GNA130SHHP	GNA130SHHP	GNA130SHHP
Principle Dimensions: (inches)				
Center Of Port To Head	0.82	0.82	0.82	0.82
Head Diameter	3.34	3.34	3.34	3.34
Overall Length	6.46	6.46	10.86	10.86
Element Removal Clearance	2.95	2.95	7.48	7.48
Filter Element Codes: (1)				
Disposable Element	25-64-□	25-64-□	25-178-□	25-178-□
Stainless Steel Element	SS-25-64-□	SS-25-64-□	SS-25-178-□	SS-25-178-□
PEL Element	PEL-25-64-□	PEL-25-64-□	PEL-25-178-□	PEL-25-178-□
PTFE Element	PT-25-64-□	PT-25-64-□	PT-25-178-□	PT-25-178-□
Materials Of Construction: (2)				
Head & Internals	316LSS	316LSS	316LSS	316LSS
Bowl	316LSS	316LSS	316LSS	316LSS
O-Rings	Viton	Viton	Viton	Viton
Accessories:				
Mounting Bracket	MBSS150	MBSS150	MBSS150	MBSS150
Support Core	SC130	SC130	SC140	SC140

## FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C <sup>(3)</sup> or 70C <sup>(4)</sup>

Air Line Pressure (PSIG)	130 Series		140 Series	
	50C	70C	50C	70C
15	6	11	10	13
30	8	16	15	19
60	13	26	25	32
100	21	44	40	50
150	29	58	55	68
250	45	89	83	106
500	87	173	163	209
1500	282	524	488	627
3000	518	1047	988	1247
6000	1036	2094	1976	2494

- Notes: (1) Replace '□' with grade required, e.g. 25-64-50C, PT-25-178-03  
 (2) Material abbreviations, 316LSS = 316L Stainless Steel  
 (3) Flow rates for Grade 50C rated at 99.99% against 0.01 micron  
 (4) Flow rates for Grade 70C rated at 95% against 0.01 micron



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Partner of Headline Filters

# STAINLESS STEEL PROCESS HIGH PRESSURE FILTER HOUSINGS

## Features:

- Filter Gases & Liquids
- 316L Stainless Steel Construction
- 3,000 PSIG / 400°F - Standard
- 6,000 PSIG Available
- Flanges Available
- 3-Port Housings For Coalescing
- Particulate, Or Bypass Filtration



Our Gas and Liquid Process Filters protect equipment from sample impurities by removing solids and liquids from gases up to 99.999% efficiency at 0.01 micron. This series of filters is also ideal to use in liquid sample process applications by simply employing our pleated liquid elements, or stainless steel elements. A 1 micron efficiency can be reached in liquids with the aforementioned elements.

To satisfy the extreme wide range of requirements for process sample filters, we supply a complete line of filter elements in stainless steel, polypropylene, and other corrosion-resistant materials. A choice of high efficiency borosilicate microfiber filter elements, which are inert to most liquids and gases, are also offered.

Our 150 and 160 series of high-pressure 316L stainless steel filter housings offer exceptional value and performance. The threaded head to bowl connection with captured o-ring provides positive sealing even in very corrosive and demanding applications. The 3,000 PSIG rating covers the majority of gas and liquid applications.

## Applications:

- Chemical Processing
- Aerospace Filtration
- Booster Compressors

### PRINCIPLE SPECIFICATIONS

Housing Model	150HP	151HP	152HP
Port Size (NPT)	1"	1 1/2"	2"
Drain Type (NPT)	1/4"	1/4"	1/4"
Maximum Pressure (psig)	3000	3000	3000
Internal Volume (cc)	1500	1500	1500
Maximum Temp. -Buna-N (250°F)	BN150HP	BN150HP	BN150HP
Maximum Temp. -EPDM (300°F)	GE150HP	GE150HP	GE150HP
Maximum Temp. -Viton (400°F)	GV150HP	GV150HP	GV150HP
Maximum Temp. -Silicone (450°F)	GS150HP	GS150HP	GS150HP
Maximum Temp. -Kalrez (600°F)	KZ150HP	KZ150HP	KZ150HP
Principle Dimensions: (inches)			
Center Of Port To Head	1.50	1.85	1.85
Head Diameter	4.72	4.72	4.72
Overall Length	14.75	15.58	15.58
Element Removal Clearance	9.72	9.72	9.72
Filter Element Codes: (1)			
Disposable Element	51-230-□	51-230-□	51-230-□
Stainless Steel Element	SS-51-230-□	SS-51-230-□	SS-51-230-□
PEL Element	PEL-51-230-□	PEL-51-230-□	PEL-51-230-□
PTFE Element	PT-51-230-□	PT-51-230-□	PT-51-230-□
Materials Of Construction: (2)			
Head & Internals	316LSS	316LSS	316LSS
Bowl	316LSS	316LSS	316LSS
O-Rings	Viton	Viton	Viton
Accessories:			
Mounting Bracket	MBSS150HP	MBSS150HP	MBSS150HP
Support Core	SC150	SC150	SC150

### FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C <sup>(3)</sup> or 70C <sup>(4)</sup>

Air Line Pressure (PSIG)	150HP Series	
	50C	70C
15	38	86
30	56	127
60	93	210
100	151	343
150	209	470
250	319	725
500	650	1450
1500	1897	4152
3000	3411	7474

- Notes: (1) Replace '□' with grade required, e.g. 51-230-50C, PT-51-230-03  
 (2) Material abbreviations, 316LSS = 316L Stainless Steel  
 (3) Flow rates for Grade 50C rated at 99.99% against 0.01 micron  
 (4) Flow rates for Grade 70C rated at 95% against 0.01 micron



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# STAINLESS STEEL PROCESS HIGH PRESSURE FILTER HOUSINGS

## Features:

- Filter Gases & Liquids
- 316L Stainless Steel Construction
- 3,000 PSIG / 400°F - Standard
- 6,000 PSIG Available
- Flanges Available
- 3-Port Housings For Coalescing
- Particulate, Or Bypass Filtration

## Applications:

- Chemical Processing
- Aerospace Filtration
- Booster Compressors

## PRINCIPLE SPECIFICATIONS

Housing Model (1)	160HP	161HP	162HP
Port Size (NPT)	1"	1 1/2"	2"
Drain Type (NPT)	1/4"	1/4"	1/4"
Maximum Pressure (psig)	3000	3000	3000
Internal Volume (cc)	2700	2700	2700
Maximum Temp. -Buna-N (250°F)	BN160HP	BN160HP	BN160HP
Maximum Temp. -EPDM (300°F)	GE160HP	GE160HP	GE160HP
Maximum Temp. -Viton (400°F)	GV160HP	GV160HP	GV160HP
Maximum Temp. -Silicone (450°F)	GS160HP	GS160HP	GS160HP
Maximum Temp. -Kalrez (600°F)	KZ160HP	KZ160HP	KZ160HP
Principle Dimensions: (inches)			
Center Of Port To Head	1.50	1.85	1.85
Head Diameter	4.72	4.72	4.72
Overall Length	24.50	25.16	25.16
Element Removal Clearance	19.37	19.37	19.37
Filter Element Codes: (2)			
Disposable Element	51-476-□	51-476-□	51-476-□
Stainless Steel Element	SS-51-476-□	SS-51-476-□	SS-51-476-□
PEL Element	PEL-51-476-□	PEL-51-476-□	PEL-51-476-□
PTFE Element	PT-51-476-□	PT-51-476-□	PT-51-476-□
Materials Of Construction: (3)			
Head & Internals	316LSS	316LSS	316LSS
Bowl	316LSS	316LSS	316LSS
O-Rings	Viton	Viton	Viton
Accessories:			
Mounting Bracket	MBSS150HP	MBSS150HP	MBSS150HP
Support Core	SC160	SC160	SC160

## FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50C <sup>(4)</sup> or 70C <sup>(5)</sup>

Air Line Pressure (PSIG)	160HP Series	
	50C	70C
15	64	87
30	154	134
60	160	221
100	256	354
150	354	488
250	546	754
500	1091	1508
1500	3248	4466
3000	5847	8004

- Notes: (1) The 160HP Series is now manufactured with a two piece bowl which makes the housings weld free  
 (2) Replace '□' with grade required, e.g. 51-476-50C, PT-51-476-03  
 (3) Material abbreviations, 316LSS = 316L Stainless Steel  
 (4) Flow rates for Grade 50C rated at 99.99% against 0.01 micron  
 (5) Flow rates for Grade 70C rated at 95% against 0.01 micron

Our wide range of filter element materials and micron sizes allow multiple uses for these housings:

Gas Service Applications:	Liquid Service Applications:
Coalescing and/or Particulate	Particulate
CNG Filtration	High Flow Sample Service
Blow Molding Equipment	Fuel Filtration
Food Plant Caustic Service	Solvents / Coolants
High Pressure Compressor Service	Cryogenic Service
General High Pressure Air Service	Corrosive Environmental Service
Adsorption Cartridges; Carbon, Silica Gel, 13X, etc.	Lubricants
Pleated for High Dirt Holding Capacity	C.I.P. Service (Clean In Place)



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## Features:

- Filter Gases & Liquids
- 316L Stainless Steel Construction
- 6,000 PSIG / 400°F - Standard
- Flanges Available
- 3-Port Housings For Coalescing
- Particulate, Or Bypass Filtration

## Applications:

- Ultra High Pressure Gas Systems
- Booster Compressors



Our Gas and Liquid Process Filters protect equipment from sample impurities by removing solids and liquids from gases up to 99.999% efficiency at 0.01 micron. This series of filters is also ideal to use in liquid sample process applications by simply employing our pleated liquid elements, or stainless steel elements. A 1 micron efficiency can be reached in liquids with the aforementioned elements.

To satisfy the extreme wide range of requirements for process sample filters, we supply a complete line of filter elements in stainless steel, polypropylene, and other corrosion-resistant materials. A choice of high efficiency borosilicate microfiber filter elements, which are inert to most liquids and gases, are also offered.

Our 150 and 160 series of ultra high-pressure 316L stainless steel filter housings offer exceptional value and performance. The threaded head to bowl connection with captured o-ring provides positive sealing even in very corrosive and demanding applications. The 6,000 PSIG rating covers the majority of gas and liquid applications.

The HHP version of our 150 and 160 series filters are built to order which allows us to provide a custom product for your specific application. In essence, we can provide differential port taps, vents and exact face to face dimensions if flanges are required. We even have the ability to produce a complete machined filter head with integral flanges. Please contact us at 1-800-311-5561 or [sales@unitedfiltration.com](mailto:sales@unitedfiltration.com) for details and a quote.

Delivery is typically 10 weeks ARO on these items.



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## Extended High Pressure Range

### 3,000 PSIG

The 130-146 housings listed on page 2 & 3 are rated at 1,500 PSIG. We have a high-pressure version that is rated at 3,000 PSIG. i.e. 130HP, 132HP, 134HP, 136HP, 140HP, 142HP, 144HP, 146HP, 150HP, 151HP, 152HP, 160HP, 161HP, and 162HP.

### 6,000 PSIG

The 130-146 housings listed on page 2 & 3 are rated at 1,500 PSIG. We have a high-pressure version that is rated at 6,000 PSIG. i.e. 130HHP, 132HHP, 134HHP, 136HHP, 140HHP, 142HHP, 144HHP, 146HHP, 150HHP, 151HHP, 152HHP, 160HHP, 161HHP, and 162HHP.

### 10,000 PSIG

The 110-126 housings listed on page 2 are rated at 5,000 PSIG. We have a high-pressure version that is rated at 10,000 PSIG. i.e. 110HP, 112HP, 114HP, 116HP, 120HP, 122HP, 124HP, 126HP.

### CUSTOM

We have the capabilities to provide custom housings based upon your specific requirements. The housings listed within are also available in PTFE, Monel, Hastelloy and many other materials.

## HOW TO SELECT THE CORRECT FILTER HOUSING

Start by answering the following nine points, which will guide you to the best filter solution based upon the filter housings working environment. All housings and elements are sold separately to accommodate the vast variety of each.

- Maximum Pressure
- Maximum Temperature
- Chemical and physical composition of the stream
- Type of filtration required: Particulate, coalescing, bypass, fast loop, liquid-liquid,
- Contaminant to be removed
- Maximum flow rate
- Line size and port size
- Level of filtration required
- Relative importance of cost, response time, ease of service and interval

### Disposable Microfiber

Disposable micro-fiber elements with efficiencies up to 99.9999% at 0.01 micron. These are ideal for use in sample conditioning since they offer exceptional filtration, high flow rates with minimal pressure drops and excellent chemical compatibility.

### Stainless Steel Mesh

Stainless steel elements (SS) are designed for the filtration of heavily contaminated gas samples and liquid streams since they are recleanable by back flushing or ultrasonic cleaning. Standard microns available: 0.5, 1, 3, 10, 25, 50, 100, and 200.

### Sintered PTFE

Sintered PTFE elements are used where only pure PTFE may contact the sample. They should be used in our PTFE series of housings based on the stainless steel models. Model 122P, 122PG, 130P, 130PG, 132P, 132PG, 142P. Standard microns available: 3,10, and 25.

### Sintered Polypropylene

Sintered polyethylene elements (PEL) are used only in non-corrosive applications to remove bulk contaminates. Standard micron sizes available: 10, 25, and 75.

## REQUIRE MORE INFORMATION

For Complete Details Please Visit Our Website [www.unitedfiltration.com](http://www.unitedfiltration.com)



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Partner of Headline Filters

**SP100-1**