



"A leading worldwide supplier of high efficiency filters for a variety of industries and applications."

10,000 PSIG STAINLESS STEEL HOUSINGS

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-01-75.

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.



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.

Applications:

- Alternative Fuel Protection
- Injection Pumps
- CNG Boosters

At the heart of our filter products is the filter element. Choosing the correct element insures proper results for your specific application:

Disposable Microfiber Elements

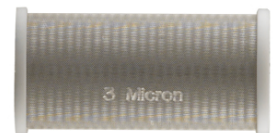
Disposable Microfiber Elements are most commonly used since they offer exceptional filtration, high flows with minimal pressure drops, and excellent chemical compatibility. These are ideal for use in sample conditioning, instrumentation, CNG, and Emission/Environmental service.

- For **Coalescing (liquid removal)** and particle collection use our grade "C". We recommend starting with the 70C which is rated at 95% efficient at 0.01 micron which provides outstanding filtration, at high flow rates.
- For **Particle removal** only use grade "K". We recommend starting with the 70K which is rated at 95% efficient at 0.01 micron which provides outstanding filtration, at high flow rates.
- For **Particulate removal** above 300°F (150°C) use grade "S".



Stainless Steel 5-Layer Mesh Elements

Stainless steel elements (SS) are designed for the filtration of heavily contaminated gas samples, CNG, 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 Polyethylene (PEL)

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

10,000 PSIG STAINLESS STEEL HOUSINGS

- Fuel Cell Filters
- CNG Capillary Filter
- Accepts Microfiber, Stainless Steel, PTFE, & PEL Filter Elements



TECHNICAL INFORMATION

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) Standard	GV110HP	GV110HP	GV110HP	GV110HP
Maximum Temp. -Silicone (450°F)	GS110HP	GS110HP	GS110HP	GS110HP
Maximum Temp. -Kalrez (600°F)	KZ110HP	KZ110HP	KZ110HP	KZ110HP
Maximum Temp. -Carbon (900°F)	GNA110SHP	GNA110SHP	GNA110SHP	GNA110SHP
Weight of Housing (lbs)	5.0	5.0	6.0	6.0
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 (Standard)	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 ⁽⁴⁾ or 70C ⁽⁵⁾

Air Line Pressure (PSIG)	110HP Series		120HP Series	
	50C	70C	50C	70C
15	2	6	3	7
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