



High Pressure / CNG Alternative Fuel Housings

PRODUCT FEATURES / BENEFITS

- ◆ Compact Design
- ◆ Available On All T-Type Housings
- ◆ Simple But Effective Design
- ◆ Use with Stainless Steel Elements for Prolonged Service Intervals
- ◆ Eliminate Heavy Loading of Final Filter
- ◆ Protect Gas & Liquid Sample Systems
- ◆ Capture Rust and Pipe Scale from Stream Lines
- ◆ Protect Coalescing Filters from Particles

We offer a comprehensive range of high-pressure compressed air and gas filters engineered to safeguard equipment at every stage of compression and at the point of use. Whether your system relies on high-pressure storage or continuous flow operation, our filtration solutions deliver proven protection against contamination, fouling, and premature equipment wear.

United Filtration filters are specifically designed to remove harmful contaminants—including rust, pipe scale, compressor lube oil, and water—from compressed gas streams. They are widely used in demanding high-pressure CNG applications, providing reliable inter-stage filtration during multi-stage compression as well as clean, dry gas for storage and vehicle fueling.

With a broad selection of media options, our elements remove up to 99.995% of solid and liquid aerosols and capture particles as small as 0.01 microns. Activated carbon media is also available for effective oil vapor adsorption.

Our housings and replaceable elements feature extremely robust construction for operating pressures up to 6,000 PSIG, temperatures to 350°F, and flow rates up to 26,000 SCFM. We offer connection sizes up to 2 inches in NPT, SAE, BSPP, and flanged configurations, with custom options available upon request. For ultra-high-pressure applications, housings rated up to 15,000 PSIG are also available.



Aluminum Constructed – Natural Gas Filters

PRODUCT FEATURES / BENEFITS

- ◆ Rugged, 100% Machined Anodized Aluminum Construction
- ◆ Remove 99.99% of Oil, Water, & Solids from Compressed Air & Other Gases
- ◆ Up To 1500 PSIG Maximum Rating
- ◆ Up To 2" Connections
- ◆ Prevent Freeze Outs
- ◆ Fuel Gas Filters
- ◆ Protect Metering Valves
- ◆ Natural Gas Compression Filters

Protect your natural gas systems—and the sensitive instruments within them—from water, glycol, oil, and particulate contamination with our high-efficiency, 100% machined aluminum filter assemblies. The rugged housing construction, combined with a high-efficiency microfiber coalescing element, provides a proven and reliable solution for the demanding conditions of the natural gas industry.

Our vacuum-formed filter elements remove liquids and particulates down to 0.01 microns while maintaining a low initial pressure drop, ensuring optimal system performance and extended service life. The miniature 315A Coalescing Series is ideal for point-of-use protection and "last-chance" filtration, while the 360A and 370A Coalescing Series offer increased liquid-holding capacity, making them well suited for remote or continuous service applications. Both series feature a captured O-ring seal and threaded element retainer, ensuring positive sealing and enabling fast, simple maintenance.



Housing Model	310A	315A	360A	365A	370A	375A
Port Size (NPT)	1/8"	1/4"	1/4"	1/2"	1/4"	1/2"
Drain Type (NPT)	Petcock	Petcock	Petcock	Petcock	Petcock	Petcock
Maximum Pressure (psig)	500	500	500	500	500	500
Internal Volume (cc)	45	45	163	163	310	310
Weight of Housing (lbs)	0.5	0.5	1.5	1.5	1.5	1.5
Principle Dimensions: (inches)						
Center Of Port To Head	0.39	0.39	0.61	0.61	0.61	0.61
Head Diameter	1.57	1.57	2.72	2.72	2.72	2.72
Overall Length	4.65	4.65	6.26	6.26	10.32	10.32
Element Removal Clearance	1.50	1.50	3.07	3.07	7.21	7.21
Maximum Temp. (240°F) Standard Viton O-Ring	BN315	BN315	BN360	BN360	BN360	BN360
Filter Element Codes: Coalescing Element (Standard - Included) *Other Elements Available- View Drawing	12-32-70C	12-32-70C	25-64-70C	25-64-70C	25-178-70C	25-178-70C
Drawing **For More Detail & Options**	<u>310A</u>	<u>315A</u>	<u>360A</u>	<u>365A</u>	<u>370A</u>	<u>375A</u>

3/4" to 2" Connection Sizes

Protect your natural gas system from harmful liquid and dirt contaminants with our large volume 3/4 to 2" NPT filter assemblies. The robust, 100 machined aluminum construction, along with a high efficiency microfiber element is a proven solution for the demands of the natural gas industry. We are able to remove liquid and particulate down to 0.01 microns, while exhibiting a low initial pressure drop with our vacuum formed filter elements.

The 383AHP/380AHP natural gas coalescing filter series is ideal as a fuel gas filter or initial stage compression filter with its **1500 PSIG** rating and robust 100% machined design. The captured bowl/head O-ring design and threaded element retainer make service quick and easy. A large hex base bowl makes field service quick and easy.

The 390AHP series of natural gas coalescers are designed for high flow, high capacity service at pressures up to 1000 PSIG. This aluminum construction affords us the ability to offer a high pressure, high volume filter that only weighs 14 pounds.

Pleated elements and dual pleated/coalescing elements are readily available heavily contaminated systems.



Housing Model	380AHP	383AHP	385AHP	390AHP
Port Size (NPT)	3/4"	1"	1 1/2" or 2"	2"
Drain Type (NPT)	Petcock	Petcock	Petcock	Petcock
Maximum Pressure (psig)	1,500	1,500	1,000	1,000
Internal Volume (cc)	760	760	1500	2950
Weight of Housing (lbs)	8	8	11	14
Principle Dimensions: (inches)				
Center Of Port To Head	1.34	1.34	1.58	1.58
Head Diameter	4.33	4.33	5.51	5.51
Overall Length	12.09	12.09	15.67	25.39
Element Removal Clearance	6.19	6.19	9.30	18.98
Maximum Temp. (250°F) Standard Viton O-Ring	BN380	BN380	BN385	BN385
Filter Element Codes: Coalescing Element (Standard - Included) *Other Elements Available- View Drawing	TRE38-152-70CS	TRE38-152-70CS	51-230-70CS	51-476-70CS
Drawing **For More Detail & Options**	<u>380AHP</u>	<u>383AHP</u>	<u>385AHP</u>	<u>390AHP</u>



Do you have a custom natural gas filter requirement?

We have the ability and desire to provide a perfect filter solution for your specific application. There are many housing and filter options available to build your optimal filter. Please feel free to contact us at 1-800-311-5561 to discuss your request.

Miniature 5,000 PSIG Housings

PRODUCT FEATURES / BENEFITS

- ◆ 316L Stainless Steel Construction
- ◆ Pressure to 5,000 PSIG, Temperature to 900°F
- ◆ 2-Port Housings for Particulate Removal
- ◆ 3-Port Housings for Coalescing or Bypass Filtration
- ◆ Compact Designs for Fast Response Times
- ◆ Available in Hastelloy, Monel and Other Exotic Materials
- ◆ Sample Conditioning Filters
- ◆ High Pressure Relief Valve

The 110 and 120 Series Filter Housings are designed for use with both gaseous and liquid sample process analyzers. Their compact configuration, low internal volume, and positive O-ring sealing mechanism provide reliable performance in demanding analyzer applications. All wetted components are constructed from 316L stainless steel and are weld-free to ensure compliance with NACE MR-01-75 standards.

For applications requiring PTFE seals, an alternate sealing design is available by adding an "S" suffix to the housing code (e.g., 112S). PTFE seals are integral to the design and cannot be retrofitted into standard housings originally equipped with Viton O-rings. In addition, high-temperature gaskets are compatible only with "S" version housings.



Housing Model	110	112	114	116	120	122	124	126
Port Size (NPT)	1/8"	1/4"	1/8"	1/4"	1/8"	1/4"	1/8"	1/4"
Drain Type (NPT)	1/8"	1/4"	None	None	1/8"	1/4"	None	None
Maximum Pressure (psig)	5000	5000	5000	5000	5000	5000	5000	5000
Internal Volume (cc)	25	25	25	25	34	34	34	34
Weight Of Housing (lbs)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Principle Dimensions: (inches)								
Center Of Port To Head	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Head Diameter	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
Overall Length	2.92	2.92	2.92	2.92	3.98	3.98	3.98	3.98
Element Removal Clearance	1.57	1.57	1.57	1.57	2.36	2.36	2.36	2.36
Maximum Temp. (400°F) Standard Viton O-Ring	GV110	GV110	GV110	GV110	GV110	GV110	GV110	GV110
Filter Element Codes: (1) Disposable Element (Standard) *Other Elements Available- View Drawing	12-32-□	12-32-□	12-32-□	12-32-□	12-57-□	12-57-□	12-57-□	12-57-□
Drawing **For More Detail & Options**	<u>110</u>	<u>112</u>	<u>114</u>	<u>116</u>	<u>120</u>	<u>122</u>	<u>124</u>	<u>126</u>
Housing w/ PTFE Seals Maximum Temp.-PTFE (400°F) Standard	<u>110S</u>	<u>112S</u>	<u>114S</u>	<u>116S</u>	<u>120S</u>	<u>122S</u>	<u>124S</u>	<u>126S</u>

Notes: (1) Replace '□' with grade required, e.g. 12-32-50C

Miniature Ultra High Pressure Housings – 10,000 PSIG

PRODUCT FEATURES / BENEFITS

- ◆ 316L Stainless Steel Construction
- ◆ Pressure to 10,000 PSIG, Temperature to 900°F
- ◆ Compact Designs for Fast Response Times
- ◆ Free From Welds NACE Compliant
- ◆ Available in Hastelloy, Monel and Other Exotic Materials
- ◆ Alternative Fuel Protection
- ◆ Injection Pumps
- ◆ CNG Boosters

The 110HP and 120HP Series Filters are designed for high-pressure applications, including gaseous and liquid sample process analyzers and fuel cell filtration. The compact housing design with low internal volume minimizes sample hold-up, while the positive O-ring sealing mechanism provides a secure and leak-tight connection. All wetted components are constructed from 316L stainless steel and are free of welds to ensure corrosion resistance and structural integrity. These housings are fully compliant with NACE MR-01-75 requirements.



Housing Model	110HP	112HP	114HP	116HP	120HP	122HP	124HP	126HP
Port Size (NPT)	1/8"	1/4"	1/8"	1/4"	1/8"	1/4"	1/8"	1/4"
Drain Type (NPT)	1/8"	1/4"	None	None	1/8"	1/4"	None	None
Maximum Pressure (psig) (1)	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Internal Volume (cc)	23	23	23	23	32	32	32	32
Weight of Housing (lbs)	5.0	5.0	5.0	5.0	6.0	6.0	6.0	6.0
Principle Dimensions: (inches)								
Center Of Port To Head	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Head Diameter	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Overall Length	4.13	4.13	4.13	4.13	5.12	5.12	5.12	5.12
Element Removal Clearance	1.57	1.57	1.57	1.57	2.56	2.56	2.56	2.56
Maximum Temp. (400°F) Standard Viton O-Ring	GV110HP	GV110HP	GV110HP	GV110HP	GV110HP	GV110HP	GV110HP	GV110HP
Filter Element Codes: (1) Disposable Element (Standard) *Other Elements Available- View Drawing	12-32-□	12-32-□	12-32-□	12-32-□	12-57-□	12-57-□	12-57-□	12-57-□
Drawing **For More Detail & Options**	<u>110HP</u>	<u>112HP</u>	<u>114HP</u>	<u>116HP</u>	<u>120HP</u>	<u>122HP</u>	<u>124HP</u>	<u>126HP</u>

Notes: (1) Replace '□' with grade required, e.g. 12-32-50C

Natural Gas Pilot Valve Filter

PRODUCT FEATURES / BENEFITS

- ◆ 316L Stainless Steel Construction
- ◆ Pressure to 5,000 PSIG, Temperature to 600°F
- ◆ Compact Proven Design
- ◆ 3-Port Housings for Coalescing or Bypass Filtration
- ◆ Clean Pilot Supply
- ◆ City Gate Natural Gas Distribution
- ◆ Meter Skid Filter
- ◆ Prep Line Gas for Instrument Supply Use

The Model 122LB-PVF is specifically engineered for high-pressure compressed gas and pneumatic filtration. Compact yet powerful, this unit delivers exceptional filtration efficiency with minimal pressure drop, making it ideal for demanding applications in natural gas, analytical, and instrumentation systems.

This housing features a flow direction from inside to outside, ensuring that liquids and aerosols are captured, coalesced, and drained along the exterior wall into the integrated large-volume sump. All 122LB-PVF Series High Pressure Filter Assemblies are supplied with a Viton® O-ring and can be ordered with or without filter elements.



Additional Features

- **NACE Approved:** Complies with NACE MR-01-75 standards.
- **High Pressure Rating:** Exceeds the capacity of the Fisher® 252 Series.
- **Compact Footprint:** Offers improved performance in a smaller, space-saving design.
- **Interchangeable Elements:** Compatible with Fisher 252 Series elements for easy upgrades.
- **Optional Top Port Configuration:** Model 122LBTP-PVF includes a 1/8" FNPT top head port for simplified installation in tight system layouts.

The 122LB-PVF is available with two standard filter element options:

- **20 micron sintered polyethylene element**
 - Designed for general-purpose particulate removal and handling of large liquid slugs. Offers robust performance in high-contamination environments.
- **0.01 micron coalescing microfiber borosilicate element**
 - Recommended for fine liquid aerosol removal where high filtration efficiency is required. Rated at 0.01 microns / 95% efficiency, the microfiber borosilicate media provides superior coalescing performance and lower pressure drop compared to traditional elements.

Ordering Information

- **122LB-PVF-PEL20 - Standard** (Includes PEL-12-76-20 – 20 Micron Polyethylene Element)
 - Replacement Element: PEL-12-76-20
- 122LB-PVF-70CS (Includes 12-76-70CS High Efficiency 0.01 Micron Coalescing Element)
 - Replacement Element: 12-76-70CS
- 122LB-PVF (No Element)

Optional Configurations:

- 122LBTP-PVF-PEL20 (Includes PEL-12-76-20 – 20 Micron Polyethylene Element) (with 1/8" Top Head Port)
 - Replacement Element: PEL-12-76-20
- 122LBTP-PVF-70CS (Includes 12-76-70CS High Efficiency Coalescing Element) (with 1/8" Top Head Port)
 - Replacement Element: 12-76-70CS
- 122LBTP-PVF (No Element) (with 1/8" Head Vent Port)

Housing Model	122LB-PVF	122LB-PVF-PEL20	122LB-PVF-70CS
Port Size (NPT)	1/4"	1/4"	1/4"
Drain Type (NPT)	1/4"	1/4"	1/4"
Maximum Pressure (psig)	5000	5000	5000
Internal Volume (cc)	58	58	58
Reservoir / Sump Volume (cc)	15	15	15
Weight on Housing (lbs)	1.5	1.5	1.5
Principle Dimensions: (inches)			
Center Of Port To Head	0.39	0.39	0.39
Head diameter	1.42	1.42	1.42
Overall Length	5.98	5.98	5.98
Element Removal Clearance	3.35	3.35	3.35
Maximum Temp. (400°F) Standard Viton O-Ring	GV110	GV110	GV110
Filter Element Codes: Polyethylene Element (Standard - Included) *Other Elements Available-View Drawing	No Element Included	PEL-12-76-20	12-76-70CS
Drawing (Nylon Internals) **For More Detail & Options**	<u>122LB-PVF</u>	<u>122LB-PVF</u>	<u>122LB-PVF</u>

Optional Drain Valve

For convenient maintenance, we recommend the SSDV-1/4 Drain Valve, which allows quick and controlled vessel drainage with a simple turn of the knob.

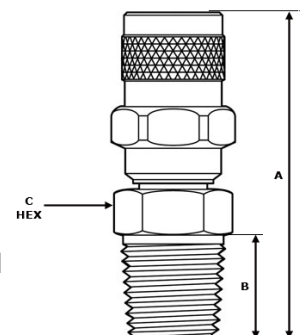
316L STAINLESS STEEL PURGE VALVES

End Connection		Dimensions		
Type	Inlet Size	A	B	C
		Inches (mm)		Hex Size
SSDV-1/4"	1/4	1.81 (45.97)	0.56 (14.22)	5/8

Our SSDV Series Stainless Steel Drain Valves provide a simple, reliable solution for draining liquids from filter housings or venting pressure prior to element servicing.

Each valve features a knurled knob for easy, tool-free operation—allowing users to finger-tighten or open the valve effortlessly. A precision orifice located on the knob ensures smooth, controlled drainage of captured liquids without splashing or spillage.

Durable stainless steel construction ensures long service life, corrosion resistance, and consistent performance in demanding applications.



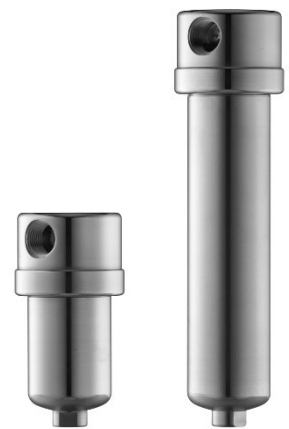
Stainless Steel Mid-Size Housings – 1,500 PSIG

PRODUCT FEATURES / BENEFITS

- ♦ 316L Stainless Steel Construction
- ♦ Pressure to 1,500 PSIG, Temperature to 900°F
- ♦ 3-Port Housings for Coalescing or Bypass Filtration
- ♦ High Pressure Models Available
- ♦ Available in Hastelloy, Monel and Other Exotic Materials
- ♦ CNG Filtration
- ♦ High Pressure Gas Production
- ♦ Sample Process Analyzers
- ♦ Supercritical CO2

The 130 and 140 Series filters are ideal for use with gaseous and liquid sample process analyzers, as well as other demanding applications. Their small internal volume, compact design, and positive O-ring sealing mechanism ensure reliable performance in challenging environments. Each housing is constructed entirely of 316L stainless steel and is free of welds to comply with NACE MR-01-75 standards.

For applications requiring higher flow rates or larger port sizes, please refer to our Model 150/160 Series filters.



Housing Model	130	132	134	136	140	142	144	146
Port Size (NPT)	1/4"	1/2"	1/4"	1/2"	1/4"	1/2"	1/4"	1/2"
Drain Type (NPT)	1/4"	1/4"	None	None	1/4"	1/4"	None	None
Maximum Pressure (psig)	1500	1500	1500	1500	1500	1500	1500	1500
Internal Volume (cc)	100	100	100	100	260	260	260	260
Weight of Housing (lbs)	2.5	2.5	2.5	2.5	3.5	3.5	3.5	3.5
Principle Dimensions: (inches)								
Center Of Port To Head	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
Head Diameter	2.36	2.36	2.36	2.36	2.36	2.36	2.36	2.36
Overall Length	4.80	4.80	4.80	4.80	9.33	9.33	9.33	9.33
Element Removal Clearance	2.95	2.95	2.95	2.95	7.40	7.40	7.40	7.40
Maximum Temp. (400°F) Standard Viton O-Ring	GV130	GV130	GV130	GV130	GV130	GV130	GV130	GV130
Filter Element Codes: (1) Disposable Element (Standard) *Other Elements Available- View Drawing	25-64-□	25-64-□	25-64-□	25-64-□	25-178-□	25-178-□	25-178-□	25-178-□
Drawing **For More Detail & Options**	<u>130</u>	<u>132</u>	<u>134</u>	<u>136</u>	<u>140</u>	<u>142</u>	<u>144</u>	<u>146</u>
Housing w/ PTFE Seals Maximum Temp. -PTFE (400°F) Standard	<u>130S</u>	<u>132S</u>	<u>134S</u>	<u>136S</u>	<u>140S</u>	<u>142S</u>	<u>144S</u>	<u>146S</u>

Notes: (1) Replace '□' with grade required, e.g. 25-64-50C

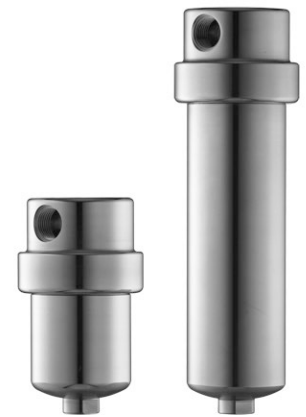
High Pressure Mid-Size Housings – 3,000 PSIG

PRODUCT FEATURES / BENEFITS

- ♦ 316L Stainless Steel Construction
- ♦ Compact Design
- ♦ 3,000 PSIG Rated
- ♦ 3-Port Housings for Coalescing or Bypass Filtration
- ♦ Ideal for CNG Filtration
- ♦ Alternative Fuel Protection
- ♦ Cryogenic Production
- ♦ Gas Plant Sampling

The 130HP and 140HP Series Filters feature a rugged, yet straightforward design, making them an excellent choice for CNG applications and other high-pressure systems. Their compact housing and low internal volume help minimize sample carry-over during system start-up. For applications with higher liquid loading, a shorter filter element can be installed to increase reservoir capacity.

These housings are available with SAE port connections and are well suited for use as second-stage filters in CNG fueling and dispenser stations. Standard pressure ratings include 1500, 3000, 6000, and 10,000 PSIG to accommodate a wide range of system requirements.



Housing Model	130HP	132HP	134HP	136HP	140HP	142HP	144HP	146HP
Port Size (NPT)	1/4"	1/2"	1/4"	1/2"	1/4"	1/2"	1/4"	1/2"
Drain Type (NPT)	1/4"	1/4"	None	None	1/4"	1/4"	None	None
Maximum Pressure (psig)	3000	3000	3000	3000	3000	3000	3000	3000
Internal Volume (cc)	110	110	110	110	270	270	270	270
Weight of Housing (lbs)	4.5	4.5	4.5	4.5	7.5	7.5	7.5	7.5
Principle Dimensions: (inches)								
Center Of Port To Head	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
Head Diameter	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52
Overall Length	5.04	5.04	5.04	5.04	9.53	9.53	9.53	9.53
Element Removal Clearance	2.95	2.95	2.95	2.95	7.40	7.40	7.40	7.40
Maximum Temp. (400°F) Standard Viton O-Ring	GV130HP	GV130HP	GV130HP	GV130HP	GV130HP	GV130HP	GV130HP	GV130HP
Filter Element Codes: (1) Disposable Element (Standard) *Other Elements Available- View Drawing	25-64-□	25-64-□	25-64-□	25-64-□	25-178-□	25-178-□	25-178-□	25-178-□
Drawing **For More Detail & Options**	<u>130HP</u>	<u>132HP</u>	<u>134HP</u>	<u>136HP</u>	<u>140HP</u>	<u>142HP</u>	<u>144HP</u>	<u>146HP</u>

Notes: (1) Replace '□' with grade required, e.g. 25-64-50C

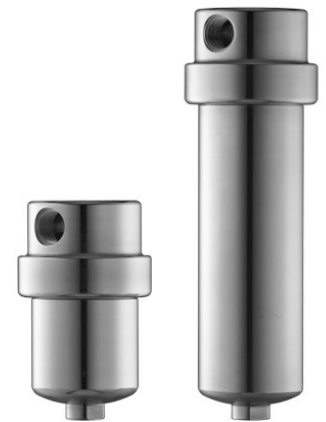
Ultra-High Pressure Mid-Size Housings – 6,000 PSIG

PRODUCT FEATURES / BENEFITS

- ◆ 316L Stainless Steel Construction
- ◆ Compact Design
- ◆ 6,000 PSIG Rated
- ◆ 3-Port Housings for Coalescing or Bypass Filtration
- ◆ Ideal for CNG Filtration
- ◆ High Pressure Liquid Service
- ◆ Chemical Processing
- ◆ CNG Dispensers
- ◆ Dry Seal Gas Panels

The 130VP and 140VP Series Filters are engineered for gaseous and liquid process filtration, offering a rugged yet straightforward design that makes them well suited for CNG applications and other high-pressure systems. For applications with high liquid content, a shorter filter element can be installed to increase reservoir capacity.

These housings are available with SAE port connections and are ideal as second-stage filters for CNG fueling and dispenser stations. Standard pressure ratings include 1500, 3000, 6000, and 10,000 PSIG.



Housing Model	130VP	132VP	134VP	136VP	140VP	142VP	144VP	146VP
Port Size (NPT)	1/4"	1/2"	1/4"	1/2"	1/4"	1/2"	1/4"	1/2"
Drain Type (NPT)	1/4"	1/4"	None	None	1/4"	1/4"	None	None
Maximum Pressure (psig)	6000	6000	6000	6000	6000	6000	6000	6000
Internal Volume (cc)	130	130	130	130	270	270	270	270
Weight of Housing (lbs)	10.5	10.5	10.5	10.5	15.0	15.0	15.0	15.0
Principle Dimensions: (inches)								
Center Of Port To Head	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Head Diameter	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
Overall Length	6.44	6.44	6.44	6.44	10.92	10.92	10.92	10.92
Element Removal Clearance	2.95	2.95	2.95	2.95	7.40	7.40	7.40	7.40
Maximum Temp. (400°F) Standard Viton O-Ring	GV130VP	GV130VP	GV130VP	GV130VP	GV130VP	GV130VP	GV130VP	GV130VP
Filter Element Codes: (1) Disposable Element (Standard) *Other Elements Available- View Drawing	25-64-□	25-64-□	25-64-□	25-64-□	25-178-□	25-178-□	25-178-□	25-178-□
Drawing **For More Detail & Options**	<u>130VP</u>	<u>132VP</u>	<u>134VP</u>	<u>136VP</u>	<u>140VP</u>	<u>142VP</u>	<u>144VP</u>	<u>146VP</u>

Notes: (1) Replace '□' with grade required, e.g. 25-64-50C

High Pressure Alternative Fuel Dispenser Filter

PRODUCT FEATURES / BENEFITS

- ◆ 316L Stainless Steel Construction
- ◆ Two Standard Versions: 1" NPT or SAE8 Ports
- ◆ 5800 PSIG (4700 PSIG on CRN Registration)
- ◆ Positive Fit Filter Element
- ◆ Ideal CNG Dispenser Filter
- ◆ Alternative Fuel Filter

United Filtration Systems' stainless steel 180VP Series is purpose-built to withstand the rigorous demands of compressed natural gas (CNG) applications. Whether installed on a booster compressor or mounted on a dispenser rack, the 180VP Series delivers exceptional protection, durability, and performance in high-pressure environments.

The compact footprint and flexible configuration options make the 180VP Series a robust, adaptable solution for CNG filtration. With multiple filter element choices available, these units provide effective removal of both:

- Particle contamination
- Liquid aerosols (coalescing filtration)

This dual-function capability ensures cleaner gas, safer operation, and extended equipment life.

At the core of every 180VP filter is a positive-fit, push-in style filter element designed for secure placement and exceptional reliability. Each element incorporates:

- Reinforced support and outer cages
- High-strength construction to withstand system upsets
- Durability through extreme pressure fluctuations and large pressure swings

These features ensure consistent performance even under the most demanding CNG conditions.



Housing Model	180VP-1"	180VP-SAE8
Port Size (NPT)	1"	SAE8
Drain Type (NPT)	SAE6	SAE6
Maximum Pressure (psig)	5800	5800
Internal Volume (cc)	750	750
Weight of Housing (lbs)	40.0	40.0
Principle Dimensions: (inches)		
Center Of Port To Head	1.25	1.25
Head Diameter	5.47	5.47
Overall Length	12.79	12.79
Element Removal Clearance	9.06	9.06
Maximum Temp. (250°F) Standard Buna-N O-Ring	BN180VP	BN180VP
Filter Element Codes: (1) Disposable Element (Standard) *Other Elements Available- View Drawing	SL-180-38-172-□	SL-180-38-172-□
Drawing **For More Detail & Options**	<u>180VP-1</u>	<u>180VP-SAE8</u>

High Pressure Compressed Gas Filter

PRODUCT FEATURES / BENEFITS

- ♦ Carbon Steel Housing with Nickel / Chrome Coating for Rust Protection
- ♦ 5,700 PSIG Maximum Pressure at 250°F
- ♦ Spring Loaded Positive Seal Elements Standard
- ♦ Large Capacity Reservoir
- ♦ SAE Porting Available
- ♦ High Pressure CNG Fuel Dispenser Service Filter
- ♦ Alternative Fuel Station Filter
- ♦ Booster Compressor Service Filter
- ♦ Storage Gas Filter
- ♦ Wellhead Control Panels

The UHPC-SL Filter Series is engineered specifically for high-pressure compressed gas coalescing filtration. Each housing is rated to 5,700 PSIG and manufactured in accordance with ASME B31.3 specifications, ensuring reliable performance under demanding operating conditions.

Constructed from carbon steel and fully coated with nickel/chrome plating for superior corrosion protection, the UHPC-SL Series provides high-efficiency filtration with a selection of three grades of robust coalescing filter cartridges. Custom configurations are also available upon request.

Our coalescing microfiber elements feature integral stainless steel inner and outer cages, metal end caps for added durability, and a captured O-ring to ensure a positive seal. Standard element seals are Buna-N, and the housing seals are matched accordingly. For alternative materials, use the following suffixes when ordering: V = Viton, E = EPDM, KZ = Kalrez (example: *SL38-172-70CSX3-V*). Five-layer stainless steel elements are also offered in a variety of micron ratings for bulk contaminant removal.

Liquid aerosols, particularly lube oil carryover, are common in high-pressure compression systems. Our reinforced microfiber coalescing elements provide an ideal solution — the glass fiber media effectively captures submicron aerosols, while the 1.25" reservoir area allows for the collection of large volumes of liquid before draining.

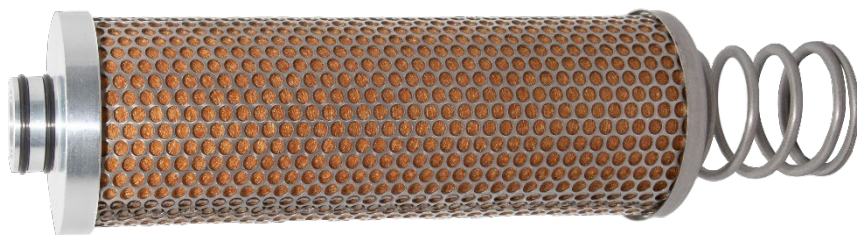


The SL Series of spring-loaded elements is designed for high differential pressure applications, featuring inner and outer stainless steel cages for maximum strength and stability. The reinforced support cores and integrated spring base protect the element from dynamic pressure fluctuations, ensuring consistent filtration performance under variable operating conditions.

For continuous liquid removal in natural gas service, we recommend our CS Grade (all-glass fiber) coalescing spring-loaded elements, which maintain high efficiency without performance loss over time.

For extreme service conditions, our "RC" Reinforced Coalescing Cartridges provide exceptional durability. These elements feature a borosilicate glass inner layer sandwiched between two rayon/phenolic layers, offering superior mechanical strength and resistance to harsh environments.

We also offer coalescing elements encapsulated within a five-layer stainless steel structure for the most demanding applications. Please consult us for configuration details and performance specifications.



SL-38-172-70CSX3
Coalescing Reinforced Caged Element

Housing Model	UHPC5-SL	UHPCSAE12-SL	UHPCSAE16-SL
Port Size	1" NPT	SAE 12	SAE 16
Drain Size	1/4" NPT	SAE 6	SAE 6
Maximum Pressure (psig)	5700	5700	5700
Maximum Temperature (°F)	250	250	250
Internal Volume (cc) (without element)	775	775	775
Weight of Housing (lbs)	26.0	26.0	26.0
Principle Dimensions: (inch)			
Center Of Port To Head	1.16	1.16	1.16
Head Diameter	4.34	4.34	4.34
Overall Length	12.13	12.13	12.13
Element Removal Clearance	9.00	9.00	9.00
Reservoir Depth	1.25	1.25	1.25
Maximum Temp. (250°F) Standard Buna-N O-Ring	BNUHPC	BNUHPC	BNUHPC
Filter Element Codes: (1) Spring Loaded Coalescing Element (Standard) *Other Elements Available-View Drawing	<u>SL38-172-□CSX3</u>	<u>SL38-172-□CSX3</u>	<u>SL38-172-□CSX3</u>
Drawing **For More Detail & Options**	<u>UHPC5-SL</u>	<u>UHPCSAE12-SL</u>	<u>UHPCSAE16-SL</u>

Notes: (1) Replace "□" with grade required, e.g. SL38-172-70CSX3

Stainless Steel Process Filters

PRODUCT FEATURES / BENEFITS

- ◆ 316L Stainless Steel Construction
- ◆ 1,500 PSIG / 400°F - Standard
- ◆ 6,000 PSIG Rated & Flanges Available
- ◆ 3-Port Housings for Coalescing
- ◆ Particulate and Bypass Filtration
- ◆ CNG Filtration
- ◆ Blow Molding Equipment
- ◆ Gas Production
- ◆ Mechanical Seal Filter
- ◆ LNG (Liquified Natural Gas) / NGL (Natural Gas Liquids) Filter

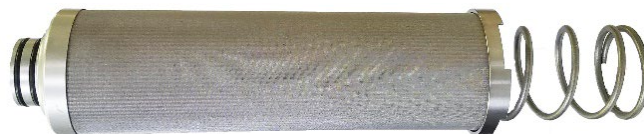
Our Gas and Liquid Process Filters protect equipment from sample impurities by removing solids and liquids with up to 99.999% efficiency at 0.01 micron. This series is also suitable for liquid sample process applications when used with pleated liquid elements or stainless steel elements, achieving efficiencies as fine as 1 micron in liquids.

To meet the diverse requirements of process sample filtration, a complete line of filter elements is available in stainless steel, polypropylene, and other corrosion-resistant materials. High-efficiency borosilicate microfiber elements, inert to most liquids and gases, are also offered for applications requiring exceptional chemical compatibility and filtration performance.



Spring Loaded Element Option (4401 Style)

Our 150–162 series housings (3/4"–2" line size) are also available with a positive push-in type filter element, ideal for systems experiencing significant pressure variations or requiring particulate removal. Unlike conventional designs that use a tie-rod to retain the element, these housings feature elements with end caps bonded or welded in place, providing a robust and reliable fit under demanding conditions. This design also offers compatibility with a broader range of element types. **Spring-loaded and positive-seal versions are designated by the 4401 suffix.**



Housing Model	150	151	152	150-4401	151-4401	152-4401
Port Size (NPT)	1"	1 1/2"	2"	1"	1 1/2"	2"
Drain Type (NPT)	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Maximum Pressure (psig)	1500	1500	1500	1500	1500	1500
Internal Volume (cc)	1350	1350	1350	1350	1350	1350
Weight of Housing (lbs)	22.0	22.0	22.0	22.0	22.0	22.0
Principle Dimensions: (inches)						
Center Of Port To Head	1.18	1.85	1.61	1.18	1.85	1.61
Head Diameter	4.33	4.33	4.57	4.33	4.33	4.57
Overall Length	15.04	15.04	15.83	15.04	15.04	15.83
Element Removal Clearance	9.72	9.72	9.72	9.72	9.72	9.72
Maximum Temp. (400°F) Standard Viton O-Ring	GV150	GV150	GV150	GV150	GV150	GV150
Filter Element Codes: (1) Disposable Element (Standard) *Other Elements Available- View Drawing	51-230-□	51-230-□	51-230-□	SL-51-230-□	SL-51-230-□	SL-51-230-□
Drawing **For More Detail & Options**	<u>150</u>	<u>151</u>	<u>152</u>	<u>150-4401</u>	<u>151-4401</u>	<u>152-4401</u>

Notes: (1) Replace '□' with grade required, e.g. 51-230-50CS

Housing Model	160	161	162	160-4401	161-4401	162-4401
Port Size (NPT)	1"	1 1/2"	2"	1"	1 1/2"	2"
Drain Type (NPT)	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Maximum Pressure (psig)	1500	1500	1500	1500	1500	1500
Internal Volume (cc)	2400	2400	2400	2400	2400	2400
Weight of Housing (lbs)	38.0	38.0	38.0	38.0	38.0	38.0
Principle Dimensions: (inches)						
Center Of Port To Head	1.18	1.85	1.61	1.18	1.85	1.61
Head Diameter	4.33	4.33	4.57	4.33	4.33	4.57
Overall Length	24.49	24.49	25.27	24.49	24.49	25.27
Element Removal Clearance	19.37	19.37	19.37	19.37	19.37	19.37
Maximum Temp. (400°F) Standard Viton O-Ring	GV150	GV150	GV150	GV150	GV150	GV150
Filter Element Codes: (1) Disposable Element (Standard) *Other Elements Available- View Drawing	51-476-□	51-476-□	51-476-□	SL-51-476-□	SL-51-476-□	SL-51-476-□
Drawing **For More Detail & Options**	<u>160</u>	<u>161</u>	<u>162</u>	<u>160-4401</u>	<u>161-4401</u>	<u>162-4401</u>

Notes: (1) Replace '□' with grade required, e.g. 51-476-50CS

High Pressure 3,000 PSIG Process Filters

PRODUCT FEATURES / BENEFITS

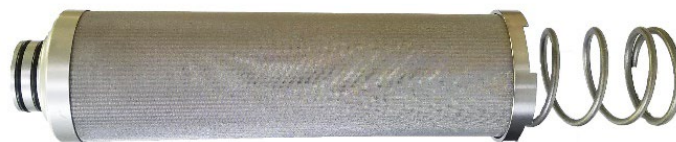
- ♦ 316L Stainless Steel Construction
- ♦ 3,000 PSIG / 400°F - Standard
- ♦ 6,000 PSIG Rated & Flanges Available
- ♦ 3-Port Housings for Coalescing
- ♦ Particulate and Bypass Filtration
- ♦ Chemical Processing
- ♦ Aerospace Filtration
- ♦ Booster Compressors
- ♦ Water Injection
- ♦ Diaphragm Compressors

Our 150HP and 160HP series high-pressure filter housings are constructed from 316L stainless steel, delivering exceptional performance and value in demanding service conditions. The threaded head-to-bowl connection with a captured O-ring ensures a positive, leak-free seal—even in highly corrosive or high-pressure environments. Rated to 3000 PSIG, these housings are suitable for a wide range of gas and liquid filtration applications.

To meet the diverse requirements of process and sample filtration, we offer a complete selection of compatible filter elements in stainless steel, polypropylene, and other corrosion-resistant materials. For critical applications, high-efficiency borosilicate microfiber elements are available, providing excellent chemical inertness and compatibility with most liquids and gases.

Spring Loaded Element Option (4401 Style)

Our 150HP–162HP series housings (3/4"–2" line size) are also available with a positive push-in type filter element, ideal for systems experiencing significant pressure variations or requiring particulate removal. Unlike conventional designs that use a tie-rod to retain the element, these housings feature elements with end caps bonded or welded in place, providing a robust and reliable fit under demanding conditions. This design also offers compatibility with a broader range of element types. **Spring-loaded and positive-seal versions are designated by the 4401 suffix.**



Housing Model	150HP	151HP	152HP	150HP-4401	151HP-4401	152HP-4401
Port Size (NPT)	1"	1 1/2"	2"	1"	1 1/2"	2"
Drain Type (NPT)	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Maximum Pressure (psig)	3000	3000	3000	3000	3000	3000
Internal Volume (cc)	1250	1250	1250	1250	1250	1250
Weight of Housing (lbs)	34.0	34.0	34.0	34.0	34.0	34.0
Principle Dimensions: (inches)						
Center Of Port To Head	1.50	2.05	2.05	1.50	2.05	2.05
Head Diameter	4.72	5.12	5.12	4.72	5.12	5.12
Overall Length	14.29	15.47	15.47	14.29	15.47	15.47
Element Removal Clearance	9.72	9.72	9.72	9.72	9.72	9.72
Maximum Temp. (400°F) Standard Viton O-Ring	GV150HP	GV150HP	GV150HP	GV150HP	GV150HP	GV150HP
Filter Element Codes: (1) Disposable Element (Standard) *Other Elements Available- View Drawing	51-230-□	51-230-□	51-230-□	SL-51-230-□	SL-51-230-□	SL-51-230-□
Drawing **For More Detail & Options**	<u>150HP</u>	<u>151HP</u>	<u>152HP</u>	<u>150HP-4401</u>	<u>151HP-4401</u>	<u>152HP-4401</u>

Notes: (1) Replace '□' with grade required, e.g. 51-230-50CS

Housing Model	160HP	161HP	162HP	160HP-4401	161HP-4401	162HP-4401
Port Size (NPT)	1"	1 1/2"	2"	1"	1 1/2"	2"
Drain Type (NPT)	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Maximum Pressure (psig)	3000	3000	3000	3000	3000	3000
Internal Volume (cc)	2500	2500	2500	2500	2500	2500
Weight of Housing (lbs)	57.0	57.0	57.0	57.0	57.0	57.0
Principle Dimensions: (inches)						
Center Of Port To Head	1.50	2.05	2.05	1.50	2.05	2.05
Head Diameter	4.76	5.12	5.12	4.76	5.12	5.12
Overall Length	23.97	25.16	25.16	23.97	25.16	25.16
Element Removal Clearance	19.37	19.37	19.37	19.37	19.37	19.37
Maximum Temp. (400°F) Standard Viton O-Ring	GV160HP/2	GV160HP/2	GV160HP/2	GV160HP/2	GV160HP/2	GV160HP/2
Filter Element Codes: (1) Disposable Element (Standard) *Other Elements Available- View Drawing	51-476-□	51-476-□	51-476-□	SL-51-476-□	SL-51-476-□	SL-51-476-□
Drawing **For More Detail & Options**	<u>160HP</u>	<u>161HP</u>	<u>162HP</u>	<u>160HP-4401</u>	<u>161HP-4401</u>	<u>162HP-4401</u>

Notes: (1) Replace '□' with grade required, e.g. 51-476-50CS

Ultra-High Pressure 6,000 PSIG Process Filters

PRODUCT FEATURES / BENEFITS

- ♦ 316L Stainless Steel Construction
- ♦ 6,000 PSIG / 400°F - Standard
- ♦ Flanges Available
- ♦ 3-Port Housings for Coalescing
- ♦ Particulate and Bypass Filtration
- ♦ Ultra High Pressure Gas Systems
- ♦ Booster Compressors
- ♦ Mechanical Seal Filter
- ♦ Critical Process Filtration

Our 150VP and 160VP series of ultra high-pressure 316L stainless steel filter housings deliver exceptional performance and value in the most demanding applications. The precision-machined, threaded head-to-bowl connection with a captured O-ring ensures a positive, leak-free seal—even in highly corrosive environments. With a pressure rating of 6,000 PSIG, these housings are ideal for a broad range of gas and liquid filtration applications.

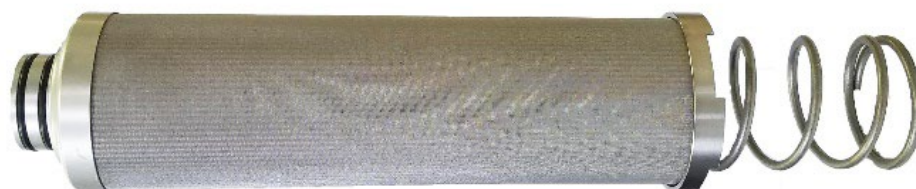
The VP Series versions of our 150 and 160 housings are built to order, allowing us to tailor each unit to your exact specifications. Custom options include differential pressure port taps, vent ports, specific face-to-face dimensions, and flange configurations. We can even manufacture a fully machined filter head with integral flanges for specialized installations.

To meet the diverse requirements of process and sample filtration, we offer a complete line of compatible filter elements in stainless steel, polypropylene, and other corrosion-resistant materials. High-efficiency borosilicate microfiber elements, chemically inert to most liquids and gases, are also available for critical applications.



Spring Loaded Element Option

Our 150HP–162HP series housings (3/4"–2" line size) are also available with a positive push-in type filter element, ideal for systems experiencing significant pressure variations or requiring particulate removal. Unlike conventional designs that use a tie-rod to retain the element, these housings feature elements with end caps bonded or welded in place, providing a robust and reliable fit under demanding conditions. This design also offers compatibility with a broader range of element types. Spring-loaded and positive-seal versions are designated by the 4401 suffix.



Housing Model	150VP	151VP	152VP	150VP-4401	151VP-4401	152VP-4401
Port Size (NPT)	1"	1 1/2"	2"	1"	1 1/2"	2"
Drain Type (NPT)	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Maximum Pressure (psig)	6000	6000	6000	6000	6000	6000
Internal Volume (cc)	1300	1300	1300	1300	1300	1300
Weight of Housing (lbs)	70.0	70.0	70.0	70.0	70.0	70.0
Principle Dimensions: (inches)						
Center Of Port To Head	1.97	1.97	2.16	1.97	1.97	2.16
Head Diameter	5.91	5.91	5.91	5.91	5.91	5.91
Overall Length	17.09	17.09	17.09	17.09	17.09	17.09
Element Removal Clearance	9.72	9.72	9.72	9.72	9.72	9.72
Maximum Temp. (400°F) Standard Viton O-Ring	GV150VP	GV150VP	GV150VP	GV150VP	GV150VP	GV150VP
Filter Element Codes: (1) Disposable Element (Standard) *Other Elements Available- View Drawing	51-230-□	51-230-□	51-230-□	51-230-□	51-230-□	51-230-□
Drawing **For More Detail & Options**	<u>150VP</u>	<u>151VP</u>	<u>152VP</u>	<u>150VP-4401</u>	<u>151VP</u>	<u>152VP</u>

Notes: (1) Replace '□' with grade required, e.g. 51-230-50CS

Housing Model	160VP	161VP	162VP	160VP-4401	161VP-4401	162VP-4401
Port Size (NPT)	1"	1 1/2"	2"	1"	1 1/2"	2"
Drain Type (NPT)	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Maximum Pressure (psig)	6000	6000	6000	6000	6000	6000
Internal Volume (cc)	2500	2500	2500	2500	2500	2500
Weight of Housing (lbs)	70.0	70.0	70.0	70.0	70.0	70.0
Principle Dimensions: (inches)						
Center Of Port To Head	1.97	1.97	2.16	1.97	1.97	2.16
Head Diameter	5.91	5.91	5.91	5.91	5.91	5.91
Overall Length	26.58	26.58	26.58	26.58	26.58	26.58
Element Removal Clearance	19.37	19.37	19.37	19.37	19.37	19.37
Maximum Temp. (400°F) Standard Viton O-Ring	GV160VP/2	GV160VP/2	GV160VP/2	GV160VP/2	GV160VP/2	GV160VP/2
Filter Element Codes: (1) Disposable Element (Standard) *Other Elements Available- View Drawing	51-476-□	51-476-□	51-476-□	51-476-□	51-476-□	51-476-□
Drawing **For More Detail & Options**	<u>160VP</u>	<u>161VP</u>	<u>162VP</u>	<u>160VP-4401</u>	<u>161VP-4401</u>	<u>162VP-4401</u>

Notes: (1) Replace '□' with grade required, e.g. 51-476-50CS