



Ultra High Pressure 6,000 PSIG Stainless Steel Process Housings

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

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>