



# High Pressure Compressed Gas Filter

## Features

- 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

## Applications

- High Pressure CNG Fuel Dispenser Service Filter
- Alternative Fuel Station Filter
- Booster Compressor Service Filter
- Storage Gas Filter
- Wellhead Control Panels

Our UHPC-SL Filter Series is specially designed for high pressure compressed gas coalescing filtration. These housings are rated for 5,700 PSIG and manufactured to ASME B31.3 specifications.

The UHPC-SL Series is machined of carbon steel and completely coated with nickel/chrome plating for rust protection. The assemblies provide high efficiency filtration with a choice of three grades of robust coalescing filter cartridges. Custom configurations are readily available.

Our coalescing microfiber elements have integral inner and outer SS cages, with metal end caps for added strength, and a captured O-ring for a positive seal. The standard element seals are Buna-N. The housing seals are matched to the element seals. When ordering a non-standard seal for the housing, be sure to add the appropriate suffix to end of element part number; V = Viton, E = EPDM, KZ = Kalrez (i.e. SL38-172-70CSX3-V). Five-Layer Stainless Steel elements are also available in a variety of microns, for bulk contaminants.

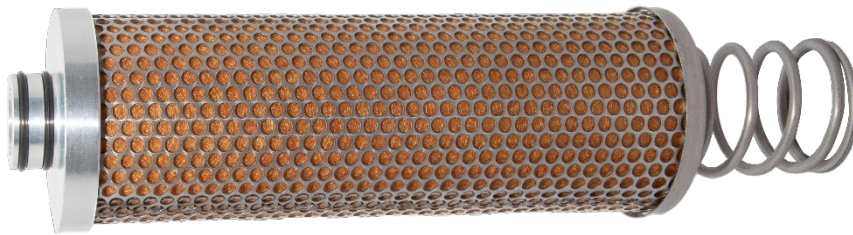
Liquid aerosols, primarily lube oil carryover is common in high pressure compression systems. Our reinforced microfiber coalescing elements are an ideal solution since the glass fiber is excellent at capturing submicron aerosols. A 1.25" reservoir area allows collection of large volumes of liquid before draining.



The SL series of spring-loaded elements are constructed with inner and outer stainless steel cages to provide higher differential ratings. The inner and outer stainless steel support cores along with the spring at the base of the cartridge provide protection from dynamic pressure swings.

We recommend using our CS grade (all glass fiber) coalescing spring loaded elements for continuous removal of liquids without the loss of efficiency in natural gas service. For extreme applications we recommend our line of "RC" Reinforced Coalescing Cartridges. These cartridges consist of a borosilicate glass inner layer sandwiched between two, rayon/phenolic layers. The reinforced inner/outer layers provide excellent strength.

We also offer a coalescing element encapsulated with a five layer stainless steel element for extreme service. Please consult us for the details.



**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) <b>*Other Elements Available-View Drawing</b>	<b><u>SL38-172-□CSX3</u></b>	<b><u>SL38-172-□CSX3</u></b>	<b><u>SL38-172-□CSX3</u></b>
<b>Drawing</b> <b>**For More Detail &amp; Options**</b>	<b><u>UHPC5-SL</u></b>	<b><u>UHPCSAE12-SL</u></b>	<b><u>UHPCSAE16-SL</u></b>

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

#### Canadian Registration Numbers:

- British Columbia – OE18041.51
- Manitoba – OE18041.54
- Maritime Provinces – OE18041.59870YTN
- Ontario – OE18041.5
- Quebec – OE4382.6
- Saskatchewan – CSA-OE18041.56

