



Spring Loaded Elements

PRODUCT FEATURES / BENEFITS

- ◆ Robust Design for Dynamic Pressure Swings
- ◆ Positive Sealing- Secure Fit
- ◆ Built-In Pressure Relief
- ◆ High Efficiency Coalescing to Stainless Steel for bulk knockout (up to 200µm)
- ◆ O-Ring Sealing

Spring Loaded Push-In Version (SL) For Stainless Housings

We offer two variations of spring-loaded elements. The most common is our **Spring Loaded (SL) Series** of positive-fit elements, specifically designed for use in our 150 thru 162VP-4401 series stainless steel filter housings. The metal end cap construction provides added security in compressed gas systems operating under high velocity and high vibration conditions.

Final-grade coalescing elements are available encapsulated within a five-layer stainless steel structure or with a stainless steel support cage for enhanced durability and strength.

For applications involving heavy liquid and/or particulate loading, stainless steel pre-filter elements are also available. Our coalescing microfiber elements feature integral stainless steel inner and outer cages, metal end caps for maximum durability, and a captured O-ring to ensure a positive seal. Standard element seals are Buna-N, with housing seals matched accordingly.

Alternative seal materials are available using the following ordering suffixes:

- **V** = Viton
- **E** = EPDM
- **KZ** = Kalrez

Example: **SL38-172-70CSX3-V**

Five-layer stainless steel elements are also offered in a range of micron ratings for bulk contaminant removal in demanding applications.

TECHNICAL INFORMATION

Materials of Construction:	Borosilicate Microfiber, Stainless Steel Spring / End Cap, Aluminum Push-In Cap, Stainless Steel Outer Cage
Type of Application:	Coalescing / Particulate Removal
Maximum Temperature:	250°F (Based on O-Ring)
Appearance:	Microfiber White Element, Aluminum Cap, Spring
Flow Direction:	Outside to Inside



Spring Loaded Threaded Version (SL-TRE)

The **SL-TRE Series** of spring-loaded elements is engineered for high differential pressure applications and features both inner and outer stainless steel cages for maximum strength and structural stability. Reinforced support cores and an integrated spring base protect the element from dynamic pressure fluctuations, ensuring consistent filtration performance under variable operating conditions. SL-TRE elements are specifically designed for use in our 380-383AHP, 385AHP, and 390AHP aluminum housings.

For continuous liquid removal in natural gas service, we recommend our **CS Grade** (all-glass fiber) coalescing spring-loaded elements. These elements deliver high efficiency while maintaining performance over extended service life without degradation.

For extreme service conditions, our **EC Epoxy Coalescing Cartridges** provide exceptional durability. These cartridges offer superior mechanical strength and enhanced resistance to harsh operating environments.

For the most demanding applications, we also offer coalescing elements encapsulated within a five-layer stainless steel structure. Please consult us for configuration options and detailed performance specifications.

TECHNICAL INFORMATION

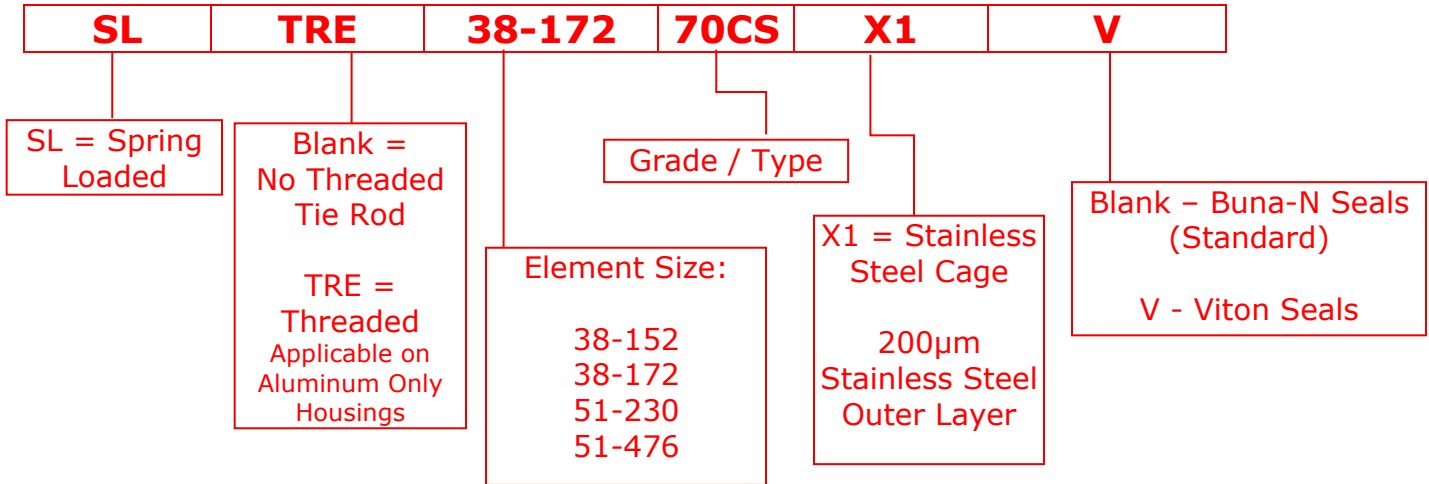
Materials of Construction:	Borosilicate Microfiber, Stainless Steel Spring, Nylon Threaded Cap, Stainless Steel Outer Layer
Type of Application:	Coalescing / Particulate Removal
Maximum Temperature:	212°F
Appearance:	Stainless Steel Element, Black Nylon Threaded Cap, Steel Spring
Flow Direction:	Outside to Inside



Ordering Information

The ordering process is streamlined by following the part number schematic below:

Example Part Number:



Standard Sizes Offered

Size	SL-TRE Version	SL Version	Housings these Fit
38-152	SL-TRE38-152-xx	-	380AHP Series
38-172	-	SL-38-172-xx-X1 SL-180-38-172-xx-X1	UHPC Series 180VP Series
51-230	SL-TRE51-230-xx-200	SL-51-230-xx-X1	SL-TRE Version: 385AHP Series SL Version: 150 Series
51-476	SL-TRE51-476-xx-200	SL-51-476-xx-X1	SL-TRE Version: 390AHP Series SL Version: 160 Series