QUALITY FILTRATION MADE SIMPLE

TWIST-LOK™ Filter Series

Versatile Contaminant Control

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The Twist-LOK™ Filter's versatile separation system offers superior contaminant removal and coalescing efficiency with the added feature of our patented Twist-LOK™ locking mechanism. This feature gives the user the ability to customize cartridges, as needed, to suit specific operating conditions.

This innovative new design optimizes performance and reliability while rocessing high liquid loads with exceptional solid particulate handling. Designed to remove liquid and solid contaminants from natural and process gas, the assembled Twist-LOK™ cartridge provides both a first stage "outside to inside" flow direction filter coalescing element and a second stage "inside to outside" flow coalescing element. With traditional filtration/coalescing elements, both stages have to be replaced; often disposing of a still viable second stage element. The Twist-LOK™ Series allows the option to replace and optimize the first stage without having to replace the second stage.

Custom Filtration Approach

Our approach to dual stage coalescing is to first understand the application and the contaminant. With a specific issue to address, we will create an optimal media combination that best fits your process. By customizing the element solution specifically to your process it creates the ideal blend of filtration, coalescing and drainage.

Process Optimization

The goal of process optimization is to minimize cost while maximizing throughput and/or efficiency. Those can be acheived by simply changing the first or second stage element to meet the contaminant requirement while never compromising the coalescing efficiency.

Cost Savings

With separate filtration and coalescing stages of the element, the first stage filter can be changed multiple times without the need to change the 2nd stage coalescer. Twist-LOK™ elements are also half the length of traditional elements reducing both shipping cost and possible damage to elements during transport. Therefore, total cost of ownership is approximately half of the normal maintenance cost of similar industry solutions.

Making the World Safer, Healthier and More Productive

CUSTOM MEDIA OPTIONS

- Multiple media options for exact application optimization
- Innovative Tri-SHiELD™ Fibers provide greater contanminant holding than traditional depth media

EFFICIENCY & OPTIMIZATION

- Market standard efficiencies from 0.3 micron at 99.9%. (Other efficiencies available)
- Absolute and nominal micron efficiencies
- Extend life of coalescing elements

LOCKING MECHANISM

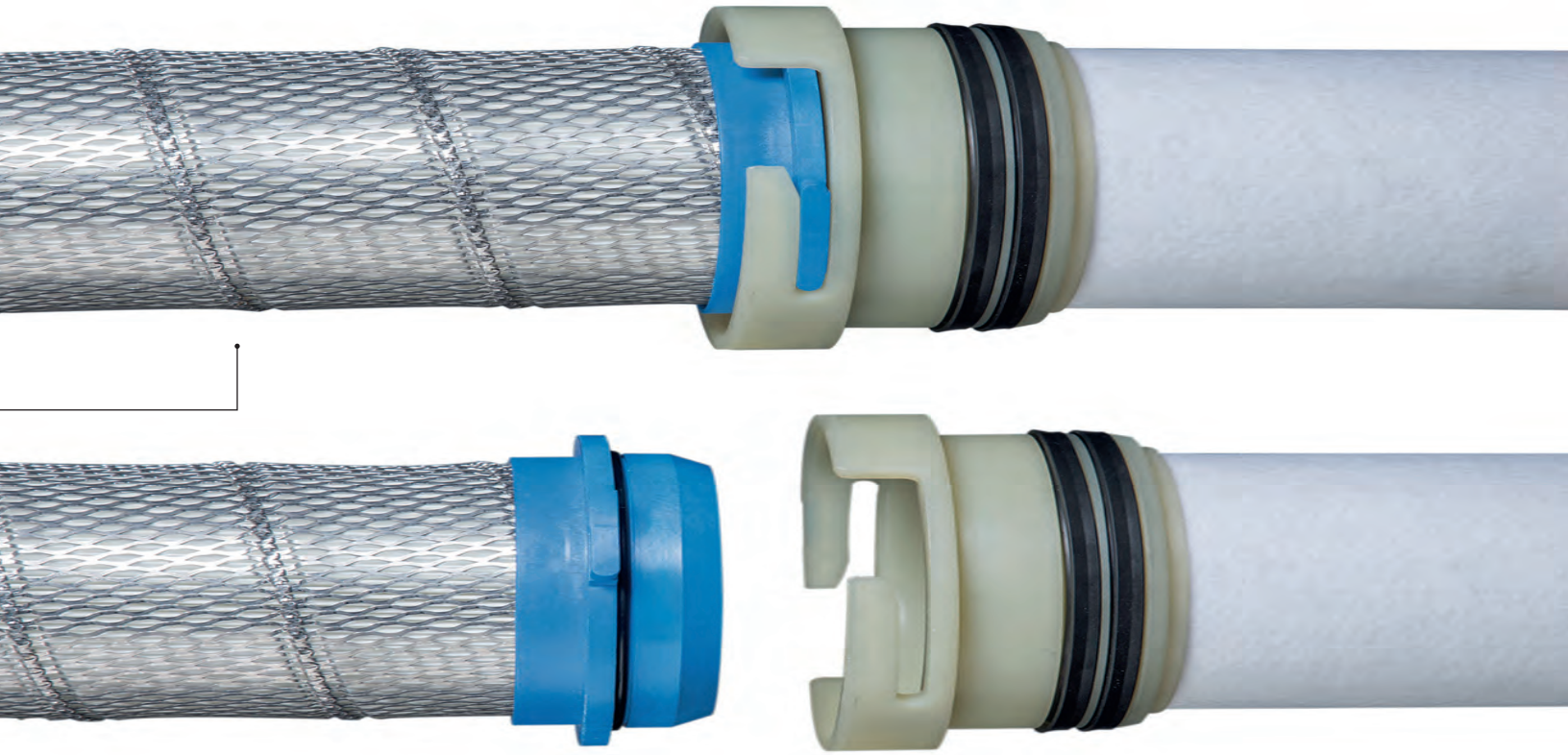
- Locking mechanism provides structural reinforcement
- Shields riser gasket from incoming contaminants
- Gradient fit provides multiple sealing surfaces at variable gasket heights

Tri-SHiELD™ Media

This unique engineered blend of multiple fibers sizes and shapes, including Tri-Lobal, are specifically layered in an advanced spiral gradient depth construction. This process gives TRI-SHiELD superior dirt loading and higher efficiency when compared to traditional depth filtration medias.

The media allows for targeted contaminant collection zones where particles lose velocity and collect, effectively maximizing total media and void utilization.

Each layer performs a specific contaminant management function which gives us the ability to engineer different layers of media even for the most challenging applications.



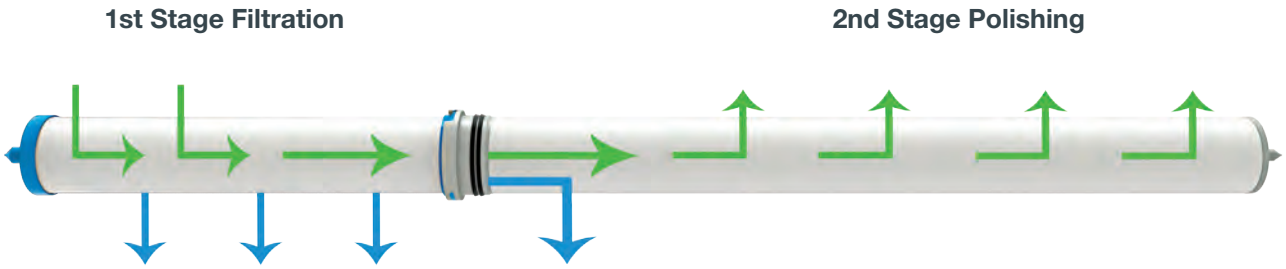
ROBUST CONSTRUCTION

- Standard galvanized core
- Optional stainless steel materials
- Optional high DP core for extreme applications

Features & Benefits

- Designed for the Jonell Systems SentinelTL™ horizontal coalescer
- Twist-LOK™ Series integrated solids shield helps prevent solids build up behind the gasket allowing for easier removal of elements
- Efficient removal of liquid aerosols and solid particulates to protect downstream equipment
- Permits replacement of first stage filter elements while the second stage coalescing elements remains in the vessel
- Twist-LOK™ Series uses the patent pending gradient fit sealing system resulting in multiple sealing points that have proven critical in the field in successfully reaching recommended change out differential pressure. The result is a much greater ability to seal and reach terminal pressure even in cases where risers are out of round or bent
- Twist-LOK™ Series locking mechanism provides structural re-enforcement and shielding of riser gasket from incoming solids
- Robust dust guard adds additional strength preventing premature element collapse
- Synthetic materials thermally bonded to resists erosion at high inlet velocities

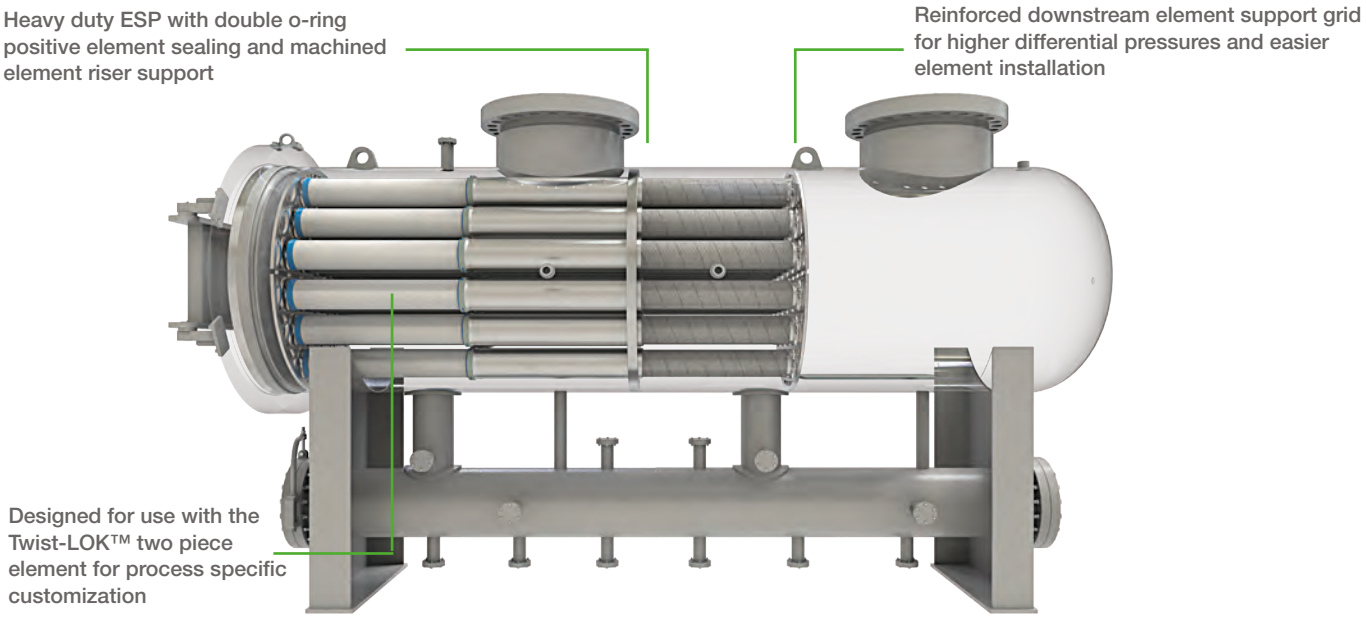
How the Twist-LOK™ Operates Within Your Process



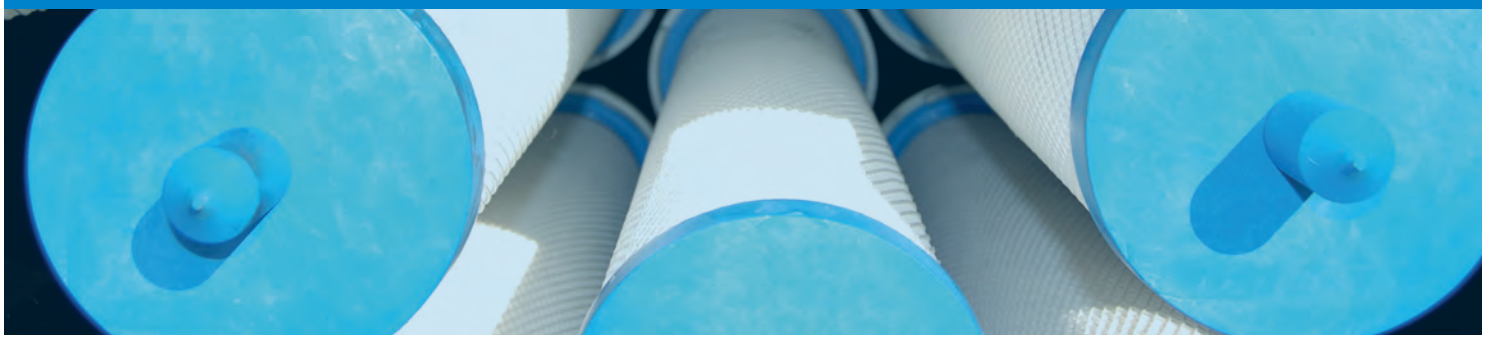
Product enters the filter from an outside to inside flow. The filter then removes solids, semi-solids and large liquid droplets. The second stage of removal is inside to outside flow, aiding in the coalescing of ultra-fine liquids into larger droplets which are then drained into the sump.

As our name implies the SentinelTL™ is the Gate Keeper to your critical processes. Properly designed and implemented filtration equipment is paramount for the protection of your critical processes. The SentinelTL™ features the patented Twist-LOK™ Filter Series offering a multitude of customizable element configurations allowing the equipment owner the ability to optimize filtration efficiency based on the contaminants encountered in the process flow.

SentinelTL™ + Twist-LOK



QUALITY FILTRATION MADE SIMPLE
Twist-LOK™ JGC Series



How These Medias Compare		
Standard Media	**1st Stage**	**2nd Stage**
TRI-SHiELD™ POLYESTER	Ideal for applications with large liquid loading and large solid contaminant particle distributions	Ideal for applications envolving semi-solids which may migrate past 1st stage pre-filter
MICRO-GLASS	Depth mirco-glass for efficient solids capture and liquid separation	High surface area micro-glass for efficient coalescing
PLEATED MICRO-GLASS	High surface area pleated media known for very strong solids holding capability in relatively dry gas with strong compatibility	For use in challenging coalescing applications
PLEATED POLYESTER	High surface area pleated media known for very strong solids holding capability	Not recommended for use in second stage