JGC(P/C) Series

TRI-SHiELD™ Horizontal Multi-stage Coalescer Cartridges for high dirt and high efficiency coalescing applications.

Engineered in our patented Twist-LOK™ design, Jonell Systems patented TRI-SHiELD media JGC cartridges are well suited for critical applications that require high coalescing efficiencies or in challenging applications with high dirt and high liquid loading including semi solids, iron sulphide and paraffins.

Features and benefits

- The blend of Tri-Lobal and cylindrical fibers in combination with the engineered gradient depth all in the same media matrix provides superior dirt loading and enhances coalescing compared to conventional depth cartridges.
- Media layers can be customized for challenging applications and multiple surface coating options provide filtration flexibility.
- Protects critical equipment and enables increased uptime with fewer unexpected failures resulting in an improved total cost of ownership.
- Textured cartridge with a coarse finish designed to improve filtration performance.

Criteria	Performance	Cartridge Design Advantage
Pressure Drop	Up to 25% less pressure drop at start-up compared to standard polyester depth media.	Engineered media with Tri-Lobal fibers for improved void space.
Efficiency	15X fewer contaminants downstream of the filtration solution	Provides a larger effective surface area per media volume while creating an environment for stable droplet growth.
Dirt Holding	Up to 20% more capacity at same recommended change-out.	Different denier fiber styles, sizes and layering of TRI-SHiELD media in gradient depth for improved contaminant loading capacity.
Capture Probability	High	Contaminant particles lose energy and velocity as they attempt to maneuver the gradient media matrix.
Filtering Area	Large	Multiple customized layers effectively create larger surface area for solids loading for a wide particle distribution including difficult semi-solid such as paraffins.

* Tested against comparable PECO PEACH Cartridges and other depth filtration technology.
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Specifications

Products	Specifications	Horizontal Coalescer Cartridge	
	Flow Direction	Stage 1: Outside to Inside Stage 2: Inside to Outside	
	Nominal Sizes	4.50”	
	Standard Lengths	73”, 82”, 94”	
	Media Type	Depth Style Polyester Depth Style Polypropylene	
	Hardware Materials	Core: Coreless, Tin Plated, Stainless Gasket: Buna, Viton, TES O-ring End Caps: Nylon	
	End Cap Configuration	Closed end with bayonet or handle	
	Efficiency	Up to 99.99% 0.3µ & larger of both liquid & solids	
	Maximum Temperature	240-degree F for Polyester (above 200-degree F requires a core) 180-degree F for Polypropylene	
	Recommended Change-out PSID	12-15 PSID	
	Applications	Compressor Suction/Discharge Custody Transfer Meters Natural Gas gathering Glycol Contactor Amine Contactor Molecular Sieve Contactor Fuel Gas Conditioning Syn Gas Cleanup Natural Gas Transmission	Mercury Bed Protection Residue Gas Cryogenic Plant Inlet Landfill Gas Catalyst protection Lo-Nox Burner protection PSA systems Propane Re-gasification

Other configurations, micron ratings and options available. **Contact Jonell Systems to discuss your unique needs.**

Nomenclature

JGC	P	N	73	H	–	E	C	B	–	SF	FF
Product Line	Element Stage	First Fit	Nominal Length			TRI-SHiELD Media Type	Core	Gasket		Performance Level	

Code	Description
P	Pre-filter
C	Coalescer

Code
73”
82”
94”

Code	Description
Blank	Bayonet
H	Handle

Code	Description
E	Depth Style Polyester
F	Depth Style Polypropylene

Code	Description
C	Coreless
T	Tin Core
S	Stainless

Code	Description
B	Buna
V	Viton
T	TES O-ring

Code	Description
TF	99.99% 0.3µ & Larger of solid particulate 99.98% 0.1µ & Larger of liquid droplets 99.99% 0.3µ & Larger of liquid droplets
FF	99.99% 0.3µ & Larger of both solid particulate & liquid droplets
SF	(Standard Offering) 99.99% 0.3µ & Larger of solid particulate 99.8% 0.3µ & Larger of liquid droplets
BF	5µ Nominal

About us

Jonell Systems, a Filtration Group brand, partners with oil, gas and energy companies worldwide to address end to end filtration challenges to improve process safety, reliability, productivity and ultimately profitability. With a wide range of vessels and cartridges with multiple media options, we have solutions to make the world safer, healthier and more productive.

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