

# JRGC Series

TRI-SHiELD™ Vertical Reverse Flow Coalescer Cartridges for removal of fine aerosols and low surface tension liquids.

Jonell Systems patent pending TRI-SHiELD media JRGC series is designed for vertical coalescers used in coalescing applications such as compressor discharge, contactor protection, contactor discharge to remove difficult contaminants including fine aerosols and low surface tension liquids such as amines, glycol and lube oils.

## 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.
Capture Probability	High	Contaminant particles lose energy and velocity as they attempt to maneuver the gradient media matrix.

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

PECO & PEACH are registered trademarks of Parker Hannifin Filtration (US) Inc. There is no affiliation between Jonell Filtration Products, Inc. and Parker Hannifin Filtration (US) Inc.

# Specifications

Products	Specifications	Vertical Reverse Flow Coalescer Cartridge	
	Flow Direction	Inside to outside	
	Nominal Sizes	3.50", 4.50", 5.50"	
	Standard Lengths	12", 24", 36", 48" *Other lengths available upon request	
	Media Type	Depth Style Polyester Depth Style Polypropylene Drain layer: Needled Polyester	
	Hardware Materials	Core: Tin Plated, Stainless Gasket: Buna, Viton End caps: Tin Plated, Stainless, Nylon	
	End Cap Configuration	Closed end with bolt hole Double open ended	
	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	
	Common Applications	<table border="0"> <tr> <td>Compressor Suction/ Discharge Amine Contactor protection Glycol Contactor protection Molecular Sieve Contactor Fuel Gas Conditioning Syn Gas Cleanup Metering Stations</td> <td>Custody Transfer Natural Gas Transmission Natural Gas Gathering Catalyst protection PSA systems (pressure swing adsorption) Mercury Guard Bed protection Lo-NOx Burner protection</td> </tr> </table>	Compressor Suction/ Discharge Amine Contactor protection Glycol Contactor protection Molecular Sieve Contactor Fuel Gas Conditioning Syn Gas Cleanup Metering Stations
Compressor Suction/ Discharge Amine Contactor protection Glycol Contactor protection Molecular Sieve Contactor Fuel Gas Conditioning Syn Gas Cleanup Metering Stations	Custody Transfer Natural Gas Transmission Natural Gas Gathering Catalyst protection PSA systems (pressure swing adsorption) Mercury Guard Bed protection Lo-NOx Burner protection		

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

## Nomenclature

<b>JRGC</b>	<b>3</b>	<b>36</b>	<b>P</b>	<b>-</b>	<b>E</b>	<b>T</b>	<b>B</b>	<b>-</b>	<b>CE</b>	<b>-</b>	<b>FF</b>																																																												
Product Line	Nominal Sizes	Nominal Length	ID 4.50" Only	TRI-SHIELD Media Type	Metal	Gasket	Configuration	Performance Level																																																															
<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>Blank</td><td>3.50"</td></tr> <tr><td>3</td><td>4.50"</td></tr> <tr><td>5</td><td>5.50"</td></tr> </tbody> </table>	Code	Description	Blank	3.50"	3	4.50"	5	5.50"	<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>Blank</td><td>3.1"</td></tr> <tr><td>P</td><td>2.93"</td></tr> </tbody> </table>	Code	Description	Blank	3.1"	P	2.93"	<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>Blank</td><td>3.1"</td></tr> <tr><td>P</td><td>2.93"</td></tr> </tbody> </table>	Code	Description	Blank	3.1"	P	2.93"	<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>T</td><td>Tin Plated</td></tr> <tr><td>S</td><td>Stainless</td></tr> </tbody> </table>	Code	Description	T	Tin Plated	S	Stainless	<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>T</td><td>Tin Plated</td></tr> <tr><td>S</td><td>Stainless</td></tr> </tbody> </table>	Code	Description	T	Tin Plated	S	Stainless	<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>T</td><td>Tin Plated</td></tr> <tr><td>S</td><td>Stainless</td></tr> </tbody> </table>	Code	Description	T	Tin Plated	S	Stainless	<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>B</td><td>Buna</td></tr> <tr><td>V</td><td>Viton</td></tr> </tbody> </table>	Code	Description	B	Buna	V	Viton	<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>Blank</td><td>DOE</td></tr> <tr><td>CE</td><td>Closed End with Bolt Hole</td></tr> </tbody> </table>	Code	Description	Blank	DOE	CE	Closed End with Bolt Hole	<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>FF</td><td>99.99% 0.3μ &amp; Larger of both liquid &amp; solids</td></tr> <tr><td>UF</td><td>99.99% 0.5μ &amp; Larger of both liquid &amp; solids</td></tr> <tr><td>AF</td><td>99.5% 0.3μ &amp; Larger of liquid &amp; 99.99% of solids</td></tr> <tr><td>BF</td><td>5μ Nominal</td></tr> </tbody> </table>	Code	Description	FF	99.99% 0.3μ & Larger of both liquid & solids	UF	99.99% 0.5μ & Larger of both liquid & solids	AF	99.5% 0.3μ & Larger of liquid & 99.99% of solids	BF	5μ Nominal			
Code	Description																																																																						
Blank	3.50"																																																																						
3	4.50"																																																																						
5	5.50"																																																																						
Code	Description																																																																						
Blank	3.1"																																																																						
P	2.93"																																																																						
Code	Description																																																																						
Blank	3.1"																																																																						
P	2.93"																																																																						
Code	Description																																																																						
T	Tin Plated																																																																						
S	Stainless																																																																						
Code	Description																																																																						
T	Tin Plated																																																																						
S	Stainless																																																																						
Code	Description																																																																						
T	Tin Plated																																																																						
S	Stainless																																																																						
Code	Description																																																																						
B	Buna																																																																						
V	Viton																																																																						
Code	Description																																																																						
Blank	DOE																																																																						
CE	Closed End with Bolt Hole																																																																						
Code	Description																																																																						
FF	99.99% 0.3μ & Larger of both liquid & solids																																																																						
UF	99.99% 0.5μ & Larger of both liquid & solids																																																																						
AF	99.5% 0.3μ & Larger of liquid & 99.99% of solids																																																																						
BF	5μ Nominal																																																																						
	<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>Blank</td><td>3.1"</td></tr> <tr><td>P</td><td>2.93"</td></tr> </tbody> </table>	Code	Description	Blank	3.1"	P	2.93"	<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>E</td><td>Depth Style Polyester</td></tr> <tr><td>F</td><td>Depth Style Polypropylene</td></tr> </tbody> </table>	Code	Description	E	Depth Style Polyester	F	Depth Style Polypropylene	<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>B</td><td>Buna</td></tr> <tr><td>V</td><td>Viton</td></tr> </tbody> </table>	Code	Description	B	Buna	V	Viton	<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>FF</td><td>99.99% 0.3μ &amp; Larger of both liquid &amp; solids</td></tr> <tr><td>UF</td><td>99.99% 0.5μ &amp; Larger of both liquid &amp; solids</td></tr> <tr><td>AF</td><td>99.5% 0.3μ &amp; Larger of liquid &amp; 99.99% of solids</td></tr> <tr><td>BF</td><td>5μ Nominal</td></tr> </tbody> </table>	Code	Description	FF	99.99% 0.3μ & Larger of both liquid & solids	UF	99.99% 0.5μ & Larger of both liquid & solids	AF	99.5% 0.3μ & Larger of liquid & 99.99% of solids	BF	5μ Nominal																																							
Code	Description																																																																						
Blank	3.1"																																																																						
P	2.93"																																																																						
Code	Description																																																																						
E	Depth Style Polyester																																																																						
F	Depth Style Polypropylene																																																																						
Code	Description																																																																						
B	Buna																																																																						
V	Viton																																																																						
Code	Description																																																																						
FF	99.99% 0.3μ & Larger of both liquid & solids																																																																						
UF	99.99% 0.5μ & Larger of both liquid & solids																																																																						
AF	99.5% 0.3μ & Larger of liquid & 99.99% of solids																																																																						
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.