

JRGC Series

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

The 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. .

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	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. .

Nomenclature

The diagram illustrates the relationship between various product attributes and their corresponding values. The attributes are organized into a hierarchy, with each attribute having a table of values.

- JRG** (Product Line)

Code	Description
Blank	3.50"
3	4.50"
5	5.50"
- 3** (Nominal Sizes)

Code	Description
Blank	3.50"
3	4.50"
5	5.50"
- 36** (Nominal Length)

12"
24"
36"
48"
72"
- P** (ID Only)

Code	Description
Blank	3.1"
P	2.93"
- E** (TRI-SHIELD Media Type)

Code	Description
E	Depth Style Polyester
F	Depth Style Polypropylene
- T** (Metal)

Code	Description
T	Tin Plated
S	Stainless
- B** (Gasket)

Code	Description
B	Buna
V	Viton
- CE** (Configuration)

Code	Description
Blank	DOE
CE	Closed End with Bolt Hole
- FF** (Performance Level)

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