# **JRGC Series**

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

Jonell Systems patented 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.
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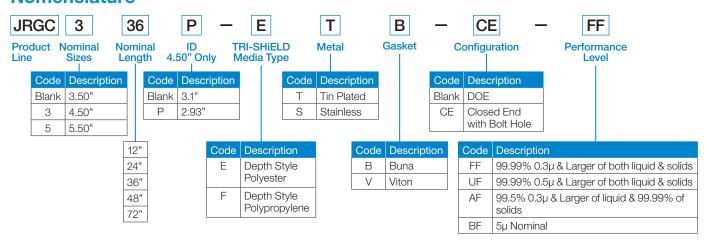


## **Specifications**

| 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<br>Gasket: Buna, Viton<br>End caps: Tin Plated, Stainless, Nylon   |   |  |
|          | End Cap Configuration       | Closed end with bolt hole<br>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. Contact Jonell Systems to discuss your unique needs.

### **Nomenclature**



### **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.



