

# JFS Series

TRI-SHiELD™ Filter Separator & Dry Gas Filter Cartridges for solid contaminant removal and pre-coalescing.

Jonell Systems patent pending TRI-SHiELD™ media cartridges for filter separators and dry gas filters are typically used in applications like compressor inlet, contactor protection, pipelines and meter stations.

They are used for removing a wide range of solid contaminants including sand, iron oxide, iron sulphide from dry gas and for pre-coalescing droplets for easier second stage removal in filter separators.

## 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 compared to conventional depth cartridges.
- Coreless designs allow for easier disposal.
- Media layers can be customized for challenging applications and multiple surface coating options provide filtration flexibility.
- 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.
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.
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	Filter Separator & Dry Gas Filter Cartridge
	Flow Direction	Outside to inside
	Nominal Sizes	3.0", 4.50", 5.50"
	Nominal Lengths	12", 24", 28", 36", 43", 48", 72", 79"
	Media Type	Depth Style Polyester Depth Style Polypropylene
	Hardware Materials	Core: Coreless, Tin Plated, Stainless Gasket: Same as Media type, Buna, Viton End caps: Stainless, Tin
	End Cap Configuration	Closed end with bolt hole Double open ended
	Efficiency	Up to 99.98% of 0.3µ & larger
	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 Gas Transmission Gas Gathering Metering/Custody Transfer Glycol Contactor Protection Amine Contactor Protection

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

# Nomenclature

**JFS**   **3**   **36**   **-**   **E**   **T**   **B**   **-**   **CE**   **-**   **FF**

Product Line   Nominal Sizes   Nominal Length   TRI-SHIELD Media Type   Core   Gasket   Configuration   Performance Level

Code	Description
Blank	3.00"*
3	4.50"
5	5.50"

\* The 3.00" element is coreless only.

12"
24"
36"
48"
72"

Code	Description
E	Depth Style Polyester
F	Depth Style Polypropylene

Code	Description
C	Coreless
T	Tin Plated
S	Stainless

Code	Description
P	Same as Media type
B	Buna
V	Viton

Code	Description
Blank	DOE
CE	Closed End with Bolt Hole
EXT	CE w/extension

Code	Description
FF	0.3µ
UF	0.5µ
SF	1µ (Standard Offering)
BF	5µ
CF	10µ

# 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.