

# JLP Series

TRI-SHIELD™ Liquid Particulate Cartridges for solid contaminant removal in a wide range of applications.

Jonell Systems TRI-SHIELD cartridges for liquid vessels are used to filter solid and semi solid contaminants in mid stream oil & gas, refining, chemical, food & beverage and a range of general industrial applications.

With up to 30% lower initial differential pressures and 3 times greater dirt holding capacity, TRI-SHIELD cartridges have superior filtration performance when compared to resin bonded, melt blown, string wound and sock filters in liquid applications.

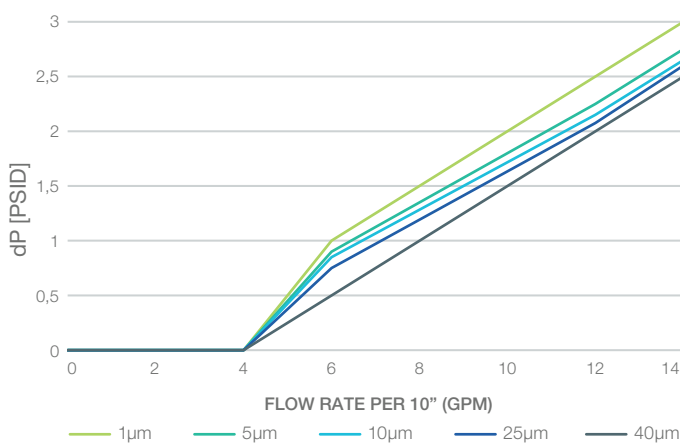
TRI-SHIELD provides for **up to 5X\*** the flow rate compared to competing thermally bonded gradient depth technologies with the same initial dP providing higher through put and longer life.

## Features and benefits

- The blend of engineered cylindrical and TRI-Lobal fibers are specified to deliver true gradient depth for superior dirt loading compared to conventional depth cartridges.
- Patented design and manufacturing maximizes void space while maintaining high efficiencies and maximizing dirt loading.
- Efficiency controlled by blending denier rated fibers into an engineered media for repeatable filtration performance.
- Robust bonded matrix prevents media compression to prevent any contaminant unloading.
- Coreless design allows for easier disposal and better chemical compatibility.
- Resin and binder free design drives greater deformable and shear sensitive contaminant capacity.
- Textured cartridge with a coarse finish designed to improve filtration performance.




TRI-SHIELD DELIVERS HALF THE DIFFERENTIAL PRESSURE AT STARTUP\*



\* Compared to PECO PEACH Cartridges and other depth filtration technology.

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## Specifications

Products	Specifications	Liquid Particulate Cartridge	
	Diameter	2.50", 2.750", 3.00", 6.00"	
	Nominal Lengths	9.75", 10", 19.5", 20", 29.25", 30", 36", 40", 47", 60"	
	Media type	Depth Style Polyester	Depth Style Polypropylene
	Gasket	No Gasket Buna-N EPR	Viton Silicone TES
	Micron Range	1μ, 5μ, 10μ, 25μ, 40μ, 50μ, 60μ, 75μ	1μ, 5μ, 10μ, 25μ, 40μ
	Efficiency	90%, 99.9%	
	End cap style	Double Open Ended Spring/Extension Finned/222 O-ring Finned/Extension 222 O-ring/Closed	222 O-ring/Spring Spring Extension 226 O-ring/Closed Finned/226 O-ring
	End caps & cores	Polyester Polypropylene	Carbon Steel Stainless Steel
	Temperature	240-degree F for Polyester	180-degree F for Polypropylene
	Common Applications	Condensate, Amine & Glycol Acids & Alkali, Solvents Catalyst Disposal Injection & Lubricants Inks, Adhesives, Fabric Coatings, Paints, Dyes	Product Polishing Bulk Chemical Filtration Bottled Water Beer Filtration (resin trap) Pulp & Paper Waste Water

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

## Nomenclature

Product Line		Diameter		Nominal Length		Micron Rating		Efficiency		Gasket		End Cap Style		Spring/Extensions		End Cap		Core	
Code	Description	Code	Descrip.	Code	Descrip.	Code	Descrip.	Code	Descrip.	Code	Description	Code	Description	Code	Description	Code	Description	Code	Description
JLPE	Polyester	25	2.50"	36	36.00"	05	5μ	F	99.9%	B	Buna-N	D	DOE	1	Carbon Steel / NA	S	Stainless Steel	C	Core
JLPP	Polypropylene	27	2.750"	20	20.00"	10	10μ	F	90%	E	Spring/Extension	2	Stainless Steel/NA	Blank	Same as media	M	Tin Plated Steel	Blank	No Core
		3	3.00"	30	30.00"	25	25μ			F	Finned/222 O-ring	3	Polypropylene/Polypropylene						
		6	6.00"	40	40.00"	40	40μ			K	Finned/Extension	5	SS/Polypropylene						
				47	47.00"	50	50μ*			O	222 O-ring/Closed	6	Polypropylene/SS						
				60	60.00"	60	60μ*			R	222 O-ring/Spring	7	CS/Polypropylene						
						75	75μ*			S	Spring								
						*Available only in Polyester configuration						X	Extension						
										Y	226 O-ring/Closed								
										Z	Finned/226 O-ring								

## 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.

