

# 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.

TRI-SHIELD cartridges have superior filtration performance when compared to resin bonded, melt blown, string wound and sock filters in liquid applications.

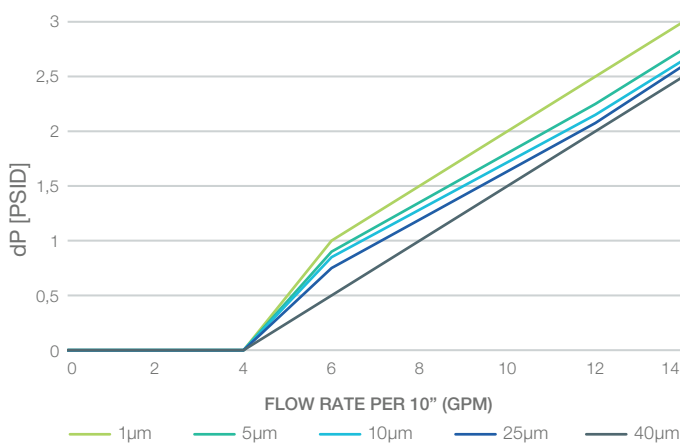
Tri-SHIELD provides for **up to 5X\*** the flow rate compared to competing thermally bonded gradient depth technologies with the same initial dP providing higher through put and longer life.

## Features and benefits

- The blend of cylindrical and TRI-Lobal fibers in the media matrix engineered for gradient depth provides superior dirt loading compared to conventional depth cartridges.
- Patent pending design and manufacturing maximizes void space while maintaining high efficiencies and maximizing dirt loading.
- Media layers can be customized for challenging applications and multiple surface coating options provide filtration flexibility.
- Available with industry standard configurations with a multitude of hardware and elastomer options to accommodate a wide range of applications.
- 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 (Double open-ended elements do not use end caps or gaskets) Buna-N	EPR Viton TES
	Micron Range	1μ to 150μ	
	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	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		End Cap / Cores	
Code	Description	Code	Descrip.	Code	Descrip.	Code	Descrip.	Code	Descrip.	Code	Description	Code	Description	Code	Description
JLPE	Polyester	25	2.50"	09	9.75"	01	1μ	B	99.9%	Blank	No Gasket*	D	DOE*	E	Polyester
JLPP	Polypropylene	27	2.750"	10	10.00"	05	5μ	E	90%	B	Buna-N	E	Spring/Extension	P	Polypropylene
		3	3.00"	19	19.50"	10	10μ	V		E	EPR	F	Finned/222 O-ring	M	Tin Plated Steel
		6	6.00"	20	20.00"	25	25μ	T		V	Viton	K	Finned/Extension	S	Stainless Steel
				29	29.25"	40	40μ			T	TES	O	222 O-ring/Closed		
				30	30.00"	60	60μ					R	222 O-ring/Spring		
				36	36.00"	100	100μ					S	Spring		
				40	40.00"	125	125μ					X	Extension		
				47	47.00"	150	150μ					Y	226 O-ring/Closed		
				60	60.00"							Z	Finned/226 O-ring		

\* Double Open Ended elements do not use end caps or gaskets

## 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.



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