

# 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.

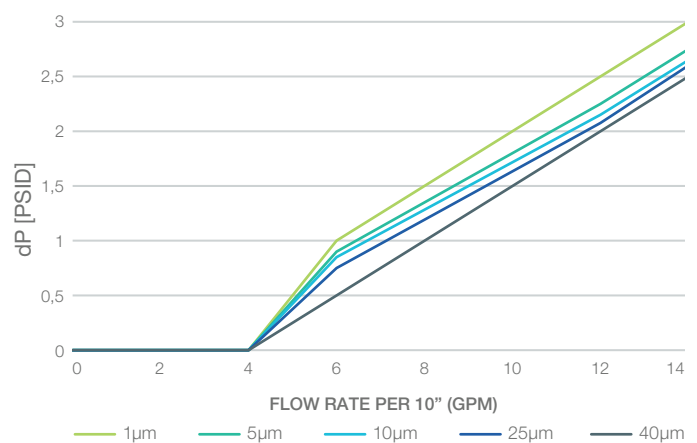
TRI-SHIELD provides for **up to 5X\*** the flow rate compared to competing thermally bonded gradient depth technologies with the same initial dP providing higher through put and longer life.

## 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.
- Patent pending 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.

PECO & PEACH are registered trademarks of Parker Hannifin Filtration (US) Inc. There is no affiliation between Jonell Filtration Products, Inc. and Parker Hannifin Filtration (US) Inc.

## 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    Viton Buna-N    Silicone EPR    TES
	Micron Range	1µ to 150µ
	Efficiency	90%, 99.9%
	End cap style	Double Open Ended                              222 O-ring/Spring Spring/Extension                              Spring Finned/222 O-ring                              Extension Finned/Extension                              226 O-ring/Closed 222 O-ring/Closed                              Finned/226 O-ring
	End caps & cores	Polyester    Carbon Steel Polypropylene                                      Stainless Steel
	Temperature	240-degree F for Polyester                      180-degree F for Polypropylene
	Common Applications	Condensate, Amine & Glycol                      Product Polishing Acids & Alkali, Solvents                      Bulk Chemical Filtration Catalyst Disposal                              Bottled Water Injection & Lubricants                              Beer Filtration (resin trap) Inks, Adhesives, Fabric Coatings,              Pulp & Paper Paints, Dyes                                      Waste Water

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

## Nomenclature

<b>JLPE</b>	<b>25</b>	<b>36</b>	—	<b>05</b>	<b>F</b>	<b>B</b>	—	<b>D</b>	<b>1</b>	—	<b>S</b>	<b>C</b>																																																																																																																																				
Product Line	Diameter	Nominal Length		Micron Rating	Efficiency	Gasket		End Cap Style	Spring/Extensions		End Cap	Core																																																																																																																																				
<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>JLPE</td><td>Polyester</td></tr> <tr><td>JLPP</td><td>Polypropylene</td></tr> </tbody> </table>	Code	Description	JLPE	Polyester	JLPP	Polypropylene	<table border="1"> <thead> <tr><th>Code</th><th>Descr.</th></tr> </thead> <tbody> <tr><td>25</td><td>2.50"</td></tr> <tr><td>27</td><td>2.750"</td></tr> <tr><td>3</td><td>3.00"</td></tr> <tr><td>6</td><td>6.00"</td></tr> </tbody> </table>	Code	Descr.	25	2.50"	27	2.750"	3	3.00"	6	6.00"	<table border="1"> <thead> <tr><th>Code</th><th>Descr.</th></tr> </thead> <tbody> <tr><td>09</td><td>9.75"</td></tr> <tr><td>10</td><td>10.00"</td></tr> <tr><td>19</td><td>19.50"</td></tr> <tr><td>20</td><td>20.00"</td></tr> <tr><td>29</td><td>29.25"</td></tr> <tr><td>30</td><td>30.00"</td></tr> <tr><td>36</td><td>36.00"</td></tr> <tr><td>40</td><td>40.00"</td></tr> <tr><td>47</td><td>47.00"</td></tr> <tr><td>60</td><td>60.00"</td></tr> </tbody> </table>	Code	Descr.	09	9.75"	10	10.00"	19	19.50"	20	20.00"	29	29.25"	30	30.00"	36	36.00"	40	40.00"	47	47.00"	60	60.00"		<table border="1"> <thead> <tr><th>Code</th><th>Descr.</th></tr> </thead> <tbody> <tr><td>01</td><td>1µ</td></tr> <tr><td>05</td><td>5µ</td></tr> <tr><td>10</td><td>10µ</td></tr> <tr><td>25</td><td>25µ</td></tr> <tr><td>40</td><td>40µ</td></tr> <tr><td>50</td><td>50µ</td></tr> <tr><td>60</td><td>60µ</td></tr> <tr><td>75</td><td>75µ</td></tr> <tr><td>100</td><td>100µ</td></tr> <tr><td>125</td><td>125µ</td></tr> <tr><td>150</td><td>150µ</td></tr> </tbody> </table>	Code	Descr.	01	1µ	05	5µ	10	10µ	25	25µ	40	40µ	50	50µ	60	60µ	75	75µ	100	100µ	125	125µ	150	150µ	<table border="1"> <thead> <tr><th>Code</th><th>Descr.</th></tr> </thead> <tbody> <tr><td>B</td><td>99.9%</td></tr> <tr><td>F</td><td>90%</td></tr> </tbody> </table>	Code	Descr.	B	99.9%	F	90%	<table border="1"> <thead> <tr><th>Code</th><th>Descr.</th></tr> </thead> <tbody> <tr><td>Blank</td><td>No Gasket</td></tr> <tr><td>B</td><td>Buna-N</td></tr> <tr><td>E</td><td>EPR</td></tr> <tr><td>V</td><td>Viton</td></tr> <tr><td>S</td><td>Silicone</td></tr> <tr><td>T</td><td>TES</td></tr> </tbody> </table>	Code	Descr.	Blank	No Gasket	B	Buna-N	E	EPR	V	Viton	S	Silicone	T	TES		<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>D</td><td>DOE</td></tr> <tr><td>E</td><td>Spring/Extension</td></tr> <tr><td>F</td><td>Finned/222 O-ring</td></tr> <tr><td>K</td><td>Finned/Extension</td></tr> <tr><td>O</td><td>222 O-ring/Closed</td></tr> <tr><td>R</td><td>222 O-ring/Spring</td></tr> <tr><td>S</td><td>Spring</td></tr> <tr><td>X</td><td>Extension</td></tr> <tr><td>Y</td><td>226 O-ring/Closed</td></tr> <tr><td>Z</td><td>Finned/226 O-ring</td></tr> </tbody> </table>	Code	Description	D	DOE	E	Spring/Extension	F	Finned/222 O-ring	K	Finned/Extension	O	222 O-ring/Closed	R	222 O-ring/Spring	S	Spring	X	Extension	Y	226 O-ring/Closed	Z	Finned/226 O-ring	<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>1</td><td>Carbon Steel / NA</td></tr> <tr><td>2</td><td>Stainless Steel/NA</td></tr> <tr><td>3</td><td>Polypropylene/Polypropylene</td></tr> <tr><td>5</td><td>SS/Polypropylene</td></tr> <tr><td>6</td><td>Polypropylene/SS</td></tr> <tr><td>7</td><td>CS/Polypropylene</td></tr> </tbody> </table>	Code	Description	1	Carbon Steel / NA	2	Stainless Steel/NA	3	Polypropylene/Polypropylene	5	SS/Polypropylene	6	Polypropylene/SS	7	CS/Polypropylene		<table border="1"> <thead> <tr><th>Code</th><th>Description</th></tr> </thead> <tbody> <tr><td>Blank</td><td>Same as media</td></tr> <tr><td>M</td><td>Tin Plated Steel</td></tr> <tr><td>S</td><td>Stainless Steel</td></tr> </tbody> </table>	Code	Description	Blank	Same as media	M	Tin Plated Steel	S	Stainless Steel	<table border="1"> <thead> <tr><th>Code</th><th>Descr.</th></tr> </thead> <tbody> <tr><td>Blank</td><td>No Core</td></tr> <tr><td>C</td><td>Core</td></tr> </tbody> </table>	Code	Descr.	Blank	No Core	C	Core
Code	Description																																																																																																																																															
JLPE	Polyester																																																																																																																																															
JLPP	Polypropylene																																																																																																																																															
Code	Descr.																																																																																																																																															
25	2.50"																																																																																																																																															
27	2.750"																																																																																																																																															
3	3.00"																																																																																																																																															
6	6.00"																																																																																																																																															
Code	Descr.																																																																																																																																															
09	9.75"																																																																																																																																															
10	10.00"																																																																																																																																															
19	19.50"																																																																																																																																															
20	20.00"																																																																																																																																															
29	29.25"																																																																																																																																															
30	30.00"																																																																																																																																															
36	36.00"																																																																																																																																															
40	40.00"																																																																																																																																															
47	47.00"																																																																																																																																															
60	60.00"																																																																																																																																															
Code	Descr.																																																																																																																																															
01	1µ																																																																																																																																															
05	5µ																																																																																																																																															
10	10µ																																																																																																																																															
25	25µ																																																																																																																																															
40	40µ																																																																																																																																															
50	50µ																																																																																																																																															
60	60µ																																																																																																																																															
75	75µ																																																																																																																																															
100	100µ																																																																																																																																															
125	125µ																																																																																																																																															
150	150µ																																																																																																																																															
Code	Descr.																																																																																																																																															
B	99.9%																																																																																																																																															
F	90%																																																																																																																																															
Code	Descr.																																																																																																																																															
Blank	No Gasket																																																																																																																																															
B	Buna-N																																																																																																																																															
E	EPR																																																																																																																																															
V	Viton																																																																																																																																															
S	Silicone																																																																																																																																															
T	TES																																																																																																																																															
Code	Description																																																																																																																																															
D	DOE																																																																																																																																															
E	Spring/Extension																																																																																																																																															
F	Finned/222 O-ring																																																																																																																																															
K	Finned/Extension																																																																																																																																															
O	222 O-ring/Closed																																																																																																																																															
R	222 O-ring/Spring																																																																																																																																															
S	Spring																																																																																																																																															
X	Extension																																																																																																																																															
Y	226 O-ring/Closed																																																																																																																																															
Z	Finned/226 O-ring																																																																																																																																															
Code	Description																																																																																																																																															
1	Carbon Steel / NA																																																																																																																																															
2	Stainless Steel/NA																																																																																																																																															
3	Polypropylene/Polypropylene																																																																																																																																															
5	SS/Polypropylene																																																																																																																																															
6	Polypropylene/SS																																																																																																																																															
7	CS/Polypropylene																																																																																																																																															
Code	Description																																																																																																																																															
Blank	Same as media																																																																																																																																															
M	Tin Plated Steel																																																																																																																																															
S	Stainless Steel																																																																																																																																															
Code	Descr.																																																																																																																																															
Blank	No Core																																																																																																																																															
C	Core																																																																																																																																															

## 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.