



**Service • Quality • Innovation**

# PowerGuard™ Elements Catalog



# PowerGuard™ Filter Element Line

## PowerGuard™ Element Media

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# PowerGuard™ Filter Element Line

## PowerGuard™ Element Data Sheets

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<a href="#"><u>TT171 SERIES</u></a>	<a href="#"><u>TTSF626 SERIES</u></a>	<a href="#"><u>TT1833DHC SERIES</u></a>	<a href="#"><u>TTSF9020CD SERIES</u></a>
<a href="#"><u>TTSF171 SERIES</u></a>	<a href="#"><u>TT626XL SERIES</u></a>	<a href="#"><u>TTSF1833DHC SERIES</u></a>	<a href="#"><u>TT9021 SERIES</u></a>
<a href="#"><u>TT210 SERIES</u></a>	<a href="#"><u>TTSF626XL SERIES</u></a>	<a href="#"><u>TT8300 SERIES</u></a>	<a href="#"><u>TTSF9021 SERIES</u></a>
<a href="#"><u>TTSF210 SERIES</u></a>	<a href="#"><u>TT632 SERIES</u></a>	<a href="#"><u>TTSF8300 SERIES</u></a>	<a href="#"><u>TT9400 SERIES</u></a>
<a href="#"><u>TT219 SERIES</u></a>	<a href="#"><u>TTSF632 SERIES</u></a>	<a href="#"><u>TT8310 SERIES</u></a>	<a href="#"><u>TTSF9400 SERIES</u></a>
<a href="#"><u>TTSF219 SERIES</u></a>	<a href="#"><u>TT831P SERIES</u></a>	<a href="#"><u>TTSF8310 SERIES</u></a>	<a href="#"><u>TT9401 SERIES</u></a>
<a href="#"><u>TT310 SERIES</u></a>	<a href="#"><u>TTSF831P SERIES</u></a>	<a href="#"><u>TT8314 SERIES</u></a>	<a href="#"><u>TTSF9401 SERIES</u></a>
<a href="#"><u>TTSF310 SERIES</u></a>	<a href="#"><u>TT1018 SERIES</u></a>	<a href="#"><u>TTSF8314 SERIES</u></a>	<a href="#"><u>TT9600 SERIES</u></a>
<a href="#"><u>TT319 SERIES</u></a>	<a href="#"><u>TTSF1018 SERIES</u></a>	<a href="#"><u>TT8900 SERIES</u></a>	<a href="#"><u>TTSF9600 SERIES</u></a>
<a href="#"><u>TTSF319 SERIES</u></a>	<a href="#"><u>TT1833 SERIES</u></a>	<a href="#"><u>TTSF8900 SERIES</u></a>	<a href="#"><u>TT9601 SERIES</u></a>
<a href="#"><u>TT610 SERIES</u></a>	<a href="#"><u>TTSF1833 SERIES</u></a>	<a href="#"><u>TT8914 SERIES</u></a>	<a href="#"><u>TTSF9601 SERIES</u></a>
<a href="#"><u>TTSF610 SERIES</u></a>	<a href="#"><u>TT1833HC SERIES</u></a>	<a href="#"><u>TTSF8914 SERIES</u></a>	<a href="#"><u>TT9650 SERIES</u></a>
<a href="#"><u>TT619 SERIES</u></a>	<a href="#"><u>TTSF1833HC SERIES</u></a>	<a href="#"><u>TT9020 SERIES</u></a>	<a href="#"><u>TTSF9650 SERIES</u></a>

## PowerGuard™ Element Data Sheets

TT9651 SERIES

TTK SERIES

TTSF9651 SERIES

TTSFK SERIES

TT9800 SERIES

TTK3 SERIES

TTSF9800 SERIES

TTSFK3 SERIES

TT9801 SERIES

TTN SERIES

TTSF9801 SERIES

TTSFN SERIES

TT9901 SERIES

TTNHC SERIES

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## TTI PARTNERS WITH FILTRATION INDUSTRY LEADERS

### Our Product Line History

TTI has partnered with Germany-based FG Industrial (Formerly Mahle) to produce the PowerGuard™ Filter Element Line. Together, we are leveraging over 58 years of German filter design and manufacturing expertise to supply world-class products for the North American marketplace. We have replicated FG Industrial manufacturing processes on-continent in our facility in Northglenn, CO.

### DuoGlass: Dual Phase Microglass Media

TTI has an exclusive media partner for all of our microglass. TTI has chosen this partner for its flagship Dual Phase media which we have made our standard for the entire TTI PowerGuard™ product line. The Dual Phase microglass media is produced on state-of-the-art automated wet laid production equipment which offers unparalleled quality control and custom capabilities for hard-to-solve



### Benefits Of Our Dual Phase Media Over Conventional Single Phase Media:

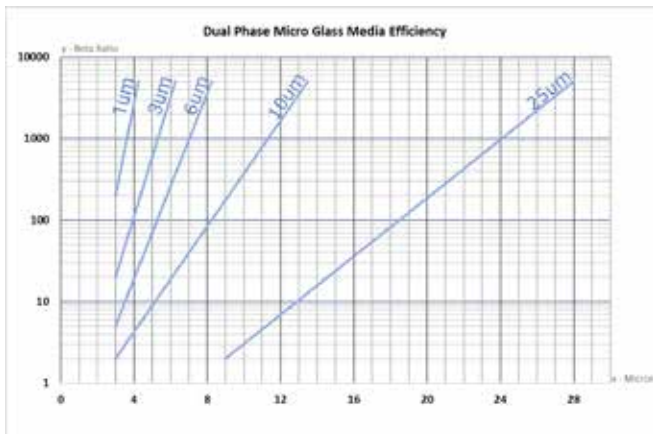
- Beta 1000 efficiencies in 1µm, 3µm, 6µm, 10µm and 25µm microns
- Graded density creates a “built-in” pre-filter layer for every cartridge
- Reduced pressure drop and increased dirt holding capacity over conventional Single Phase materials



## DuoGlass Filter Media Selection Guide

The filter media is the most critical component through which particulate retention is accomplished. For the multitudes of fluids and applications, TTI has developed and offers a range of filtration media. This allows elements to be manufactured in a broad range of filtration capabilities to suit these applications.

## Dual Phase Technology



Our dual phase microglass is available in ratings of 1µm, 3µm, 6µm, 10µm, and 25µm, with high dirt holding capacity and low pressure drop.

Tested according to ISO 16889 (multi-pass test). Valid up to 50 psi differential pressure.

1µm	$\beta_{2.8(C)}$	$\geq 1000$
3µm	$\beta_{4.5(C)}$	$\geq 1000$
6µm	$\beta_{7(C)}$	$\geq 1000$
10µm	$\beta_{11(C)}$	$\geq 1000$
25µm	$\beta_{24(C)}$	$\geq 1000$

Filters used in hydraulic or lubrication systems are tasked with reducing particulate contamination to a targeted level of cleanliness over the service life of the element. The ISO 4406 standard presents a means of specifying these goals by way of a universal cleanliness code. The table below reflects our knowledge and experience designing elements and should be considered a starting point as to what you can expect from your system using the selected TTI microglass media. Your performance can vary based on flow rate, viscosity, differential pressure, and contamination level. It is recommended to conduct trials to verify your filtration process meets your performance goals.

### ISO CLEANLINESS CLASSES FOR DUAL PHASE MICROGLASS MEDIA

Filter Media	Projected Cleanliness Codes Per ISO 4406 - 1999, 4µm / 6µm / 14µm
1µm $\beta_{1000}$	13/11/08
3µm $\beta_{1000}$	14/12/09
6µm $\beta_{1000}$	16/13/10
10µm $\beta_{1000}$	17/15/11
25µm $\beta_{1000}$	23/19/13

### ELEMENT ADD-ONS (SEE NEXT PAGES FOR DETAILS)

- Water Absorptive Technology • StaticGuard Technology
- Insoluble Varnish Removal • Stainless Steel Wire Mesh



## SmartMedia™ Technology

TTI's SmartMedia™ technology is an innovative solution that combines any two or more medias together in parallel flow to create personalized, and more efficient solutions for sensitive systems. SmartMedia filters are Ideal for fighting high or fluctuating viscosity, varying sizes of particulate contamination, pressure drop issues, and more. Please [reach out to our corporate office](#) for custom SmartMedia™ solutions.

Patent # US 8851295 B2

## SmartMedia™ Filter (SF) Elements Line

TTI's SmartMedia element line offers the best pressure drop available for any hydraulic, lubrication, or bulk fluid transfer systems. This drop-in solution **DOES NOT** require users to upgrade their existing equipment.

### Benefits:

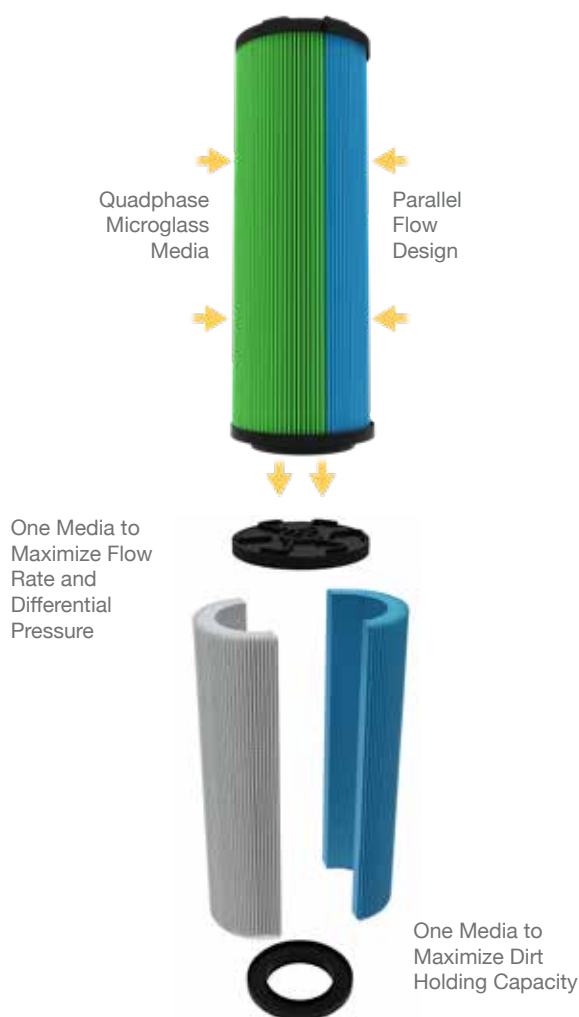
- Up to 25% Longer Life
- Up to 25% Better Initial Pressure Drop
- Patent Protected Design  
Patent # US 8851295 B2
- Same Form and Fit, Better Function

### Ideal Industries:

- Power Generation & Transmission
- Pulp and Paper Mills
- Steel Manufacturing
- Cement and Aggregate Plants

### Built to Fight Symptoms Such As:

- Fluctuating Viscosity
- High Viscous Fluids
- Wide Particulate Size Range



## WATER ABSORPTIVE MEDIA: FILTER MEDIA

By adding the Water Absorptive media option, TTI's PowerGuard™ elements have the ability to remove free and emulsified water, with the benefits of superior filtration efficiency and dirt holding capacity.

## Water Absorptive (WA) Technology

### Filter Media Benefits

Filter elements and spin-ons with WA media specified, have reduced water content within systems, resulting in long-term benefits:

- Increased Uptime
- Maximized Lubricant Health
- Extended Life (supporting reliable systems)

### Water Holding Capabilities By Element

Moisture content in PPM x Amount of Fluid in Gallons  
x 0.000128 = oz of water content

Moisture content in PPM x Amount of Fluid in liters  
x 0.000001 = liters of water content

TTI ELEMENT	WATER CAPACITY
TT75S-*25CWA*	24oz 0.70L
TT8314-39-*WA*	179oz 5.30L
TT9600-8-*WA*	11.5oz 0.35L





## STATIC GUARD (SD): FILTER MEDIA

By adding the Static Dissipative media option, TTI's PowerGuard™ elements have the ability to protect against static discharge and dissipate static buildup caused by fluid passing through filter media.

Static Dissipative elements help prevent static discharge, which are high voltage bolts of electricity. These bolts of electricity can burn holes through filter media, break fluid down, form varnish, and presents a safety hazard. Holes formed in filter media allows bypass, causing fluid to not be filtered leading to contamination.

## Static Dissipative (SD) Technology

### Filter Media Benefits

Filter elements with SD media specified, protects and dissipates static buildup, resulting in long-term benefits:

- Increased Uptime
- Maximized lubricant cleanliness
- Maximized equipment protection against damage



While traditional strainer filters are effective in minimizing static discharge, they do not offer any benefits for contamination and the inevitable damage, downtime, and profit loss they cause.

## INSOLUBLE REMOVAL (IR): FILTER MEDIA

By utilizing the Insoluble Removal media, TTI's PowerGuard™ elements have the ability to protect against particulate contamination, water, insoluble oxidation by-product, and varnish.

## Insoluble Removal (IR) Technology

### Filter Media Benefits

Filter elements with IR media specified, protect against the toughest contaminants such as:

- Fine Particulate < 1 micron
- Water
- Insoluble Oxidation By-Products
- Varnish



While traditional filter media is effective in removing particulate, it does not offer any benefits for fine, insoluble particulate, or varnish removal.

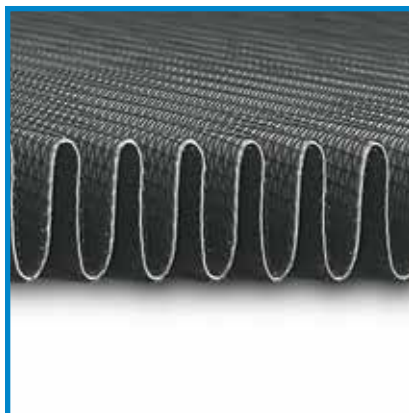
## STAINLESS STEEL WIRE MESH (W): FILTER MEDIA

Wire mesh filtration media is a vital component in numerous hydraulic and lubrication applications, providing efficient and reliable filtration solutions. Constructed with robust stainless steel, this filtration media offers exceptional durability, ensuring long-lasting performance even under challenging conditions.

## Stainless Steel (W) Wire Mesh

### Filter Media Benefits

Stainless Steel Wire Mesh filter elements come in **25, 74, and 149µm** ratings and serve as a durable and more open option to Dual Phase Microglass.



Ideal for a multitude of applications where specific filtration requirements are essential. Widely preferred in industries such as steel manufacturing, mining, oil and gas, and fracking.



## TTI ONLINE CROSS REFERENCE TOOL

### Need help finding a element replacement?

PowerGuard™ Elements are available in industry standard configurations to fit your existing equipment. To find a replacement for your product on-hand, simply use our [ONLINE CROSS REFERENCE TOOL](#). The cross reference tool provides the TTI replacement element for several competitive product lines including: Pall, Parker, Hydac, Donaldson/Hy-Pro, Swift, Main, American and many more!



The screenshot shows the TTI Cross Reference Tool interface. At the top is a navigation bar with links: About Us, Products, Sizing Tool, Cross Reference (active), Resources, and Contact. Below the navigation bar is a green header with the text "Cross Reference Tool" and a sub-header: "The TTI cross reference tool helps you identify the most suitable TTI Power Breather by entering a competitor part number." Below this is a form with the instruction "Please enter a competitor product number and click submit." and a note "Must contain at least 3 characters". A search input field contains the text "123" and a green "SUBMIT" button is to its right. Below the form, it says "You searched for: 123". At the bottom is a table with three columns: TTI Product Number, Competitor Name, and Competitor Part Number. The table contains one row of results.

TTI Product Number	Competitor Name	Competitor Part Number
Titan-1600	Air Sentry	R-123

CALL US TODAY TO FIND PROCESS AND SYSTEM SOLUTIONS

TTI provides exceptional product quality with unparalleled service.

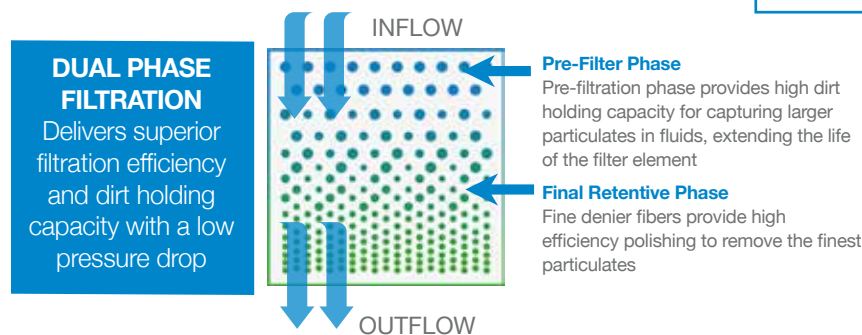
Give TTI a call at **(303) 585-0132** to discuss how you can leverage our know-how to create a custom solution for your specific application.



## TT03 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

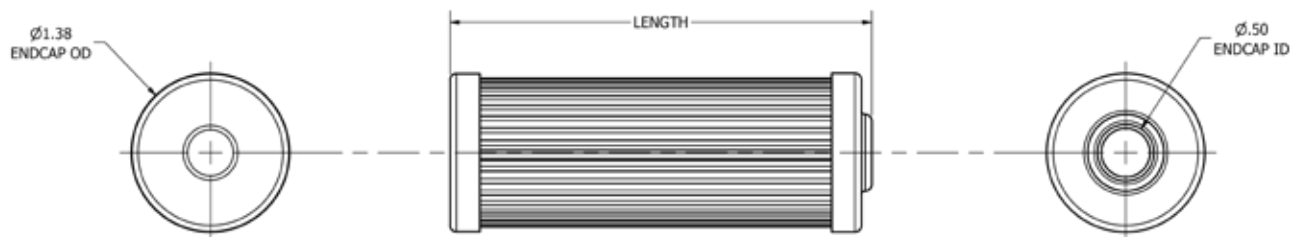
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 450 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT03		4 = 3.65		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
				3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				10			
				25			

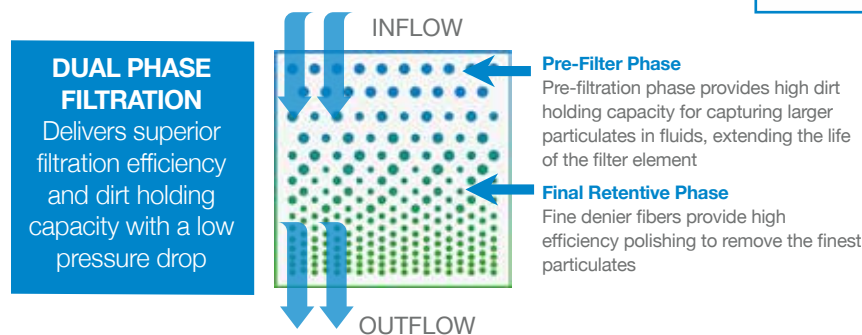
PART NUMBER EXAMPLE: TT03-2-3V = TT03 (2 length, 3 micron, viton seal type)



## TTSF03 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

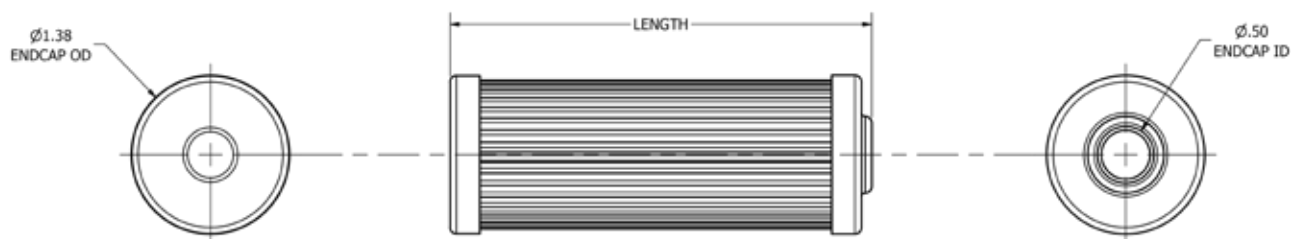
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 450 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF03		4 = 3.65		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
				3	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		
				10		
				25		

PART NUMBER EXAMPLE: TTSF03-2-3V = TTSF03 (2 length, 3 micron SmartFlow media, viton seal type)

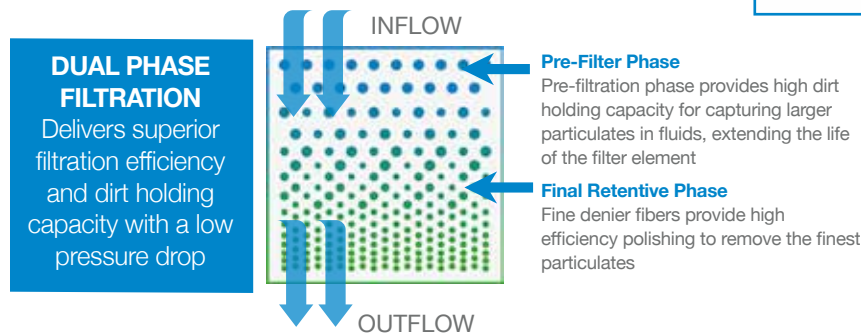




## TT03HC Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

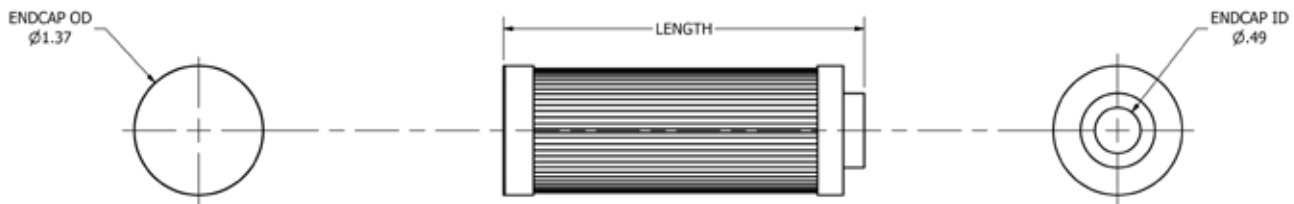
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT03HC		4 = 3.65		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
				3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				10			
				25			

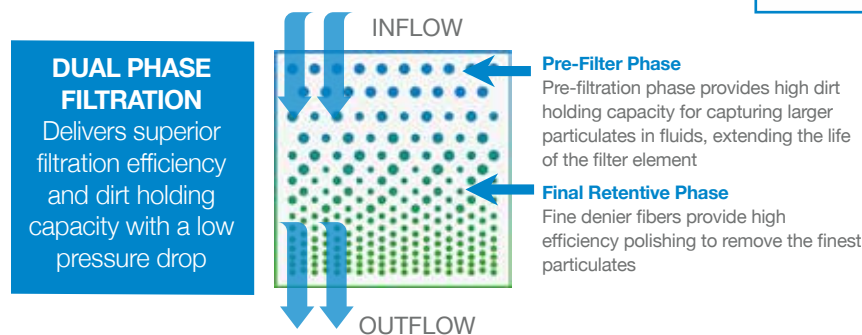
PART NUMBER EXAMPLE: TT03HC-2-3V = TT03HC (2 length, 3 micron, viton seal type)



## TTSF03HC Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

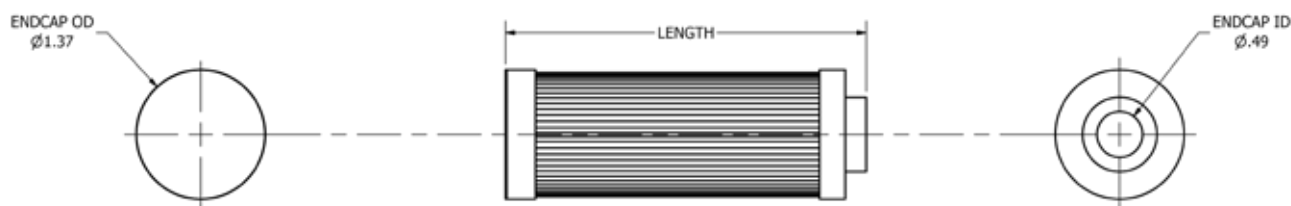
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF03HC		4 = 3.69		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
				3	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		
				10		
				25		

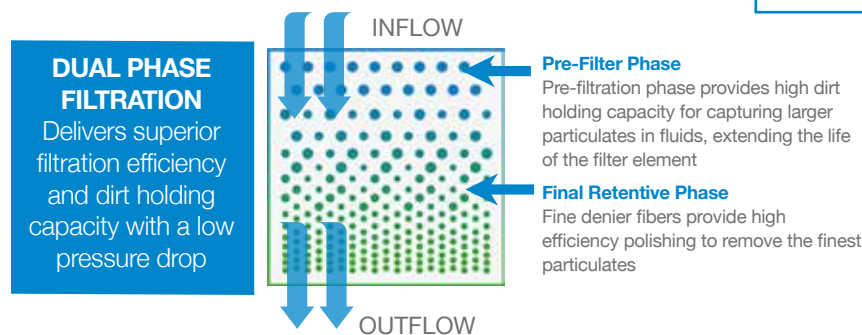
PART NUMBER EXAMPLE: TTSF03HC-2-3V = TTSF03HC (2 length, 3 micron SmartFlow media, viton seal type)



## TT06 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

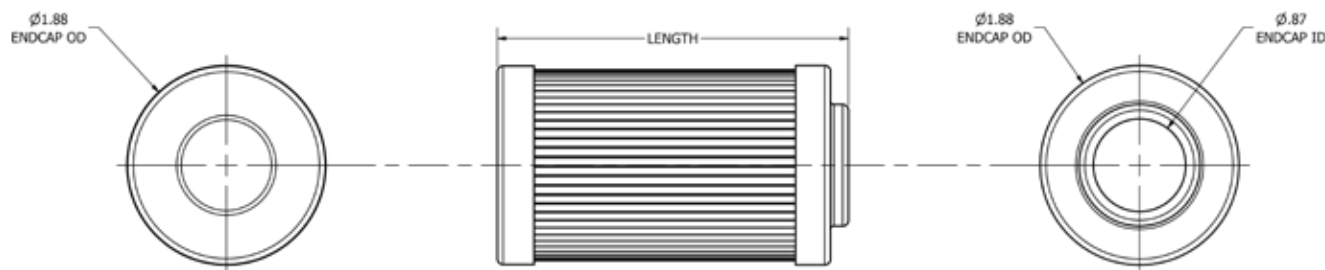
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 435 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT06		4 = 3.65		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		8 = 8.00		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

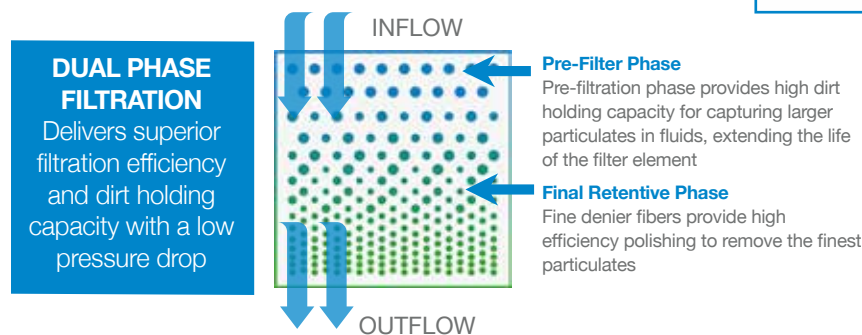
PART NUMBER EXAMPLE: TT06-4-3V = TT06 (4 length, 3 micron, viton seal type)



## TTSF06 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

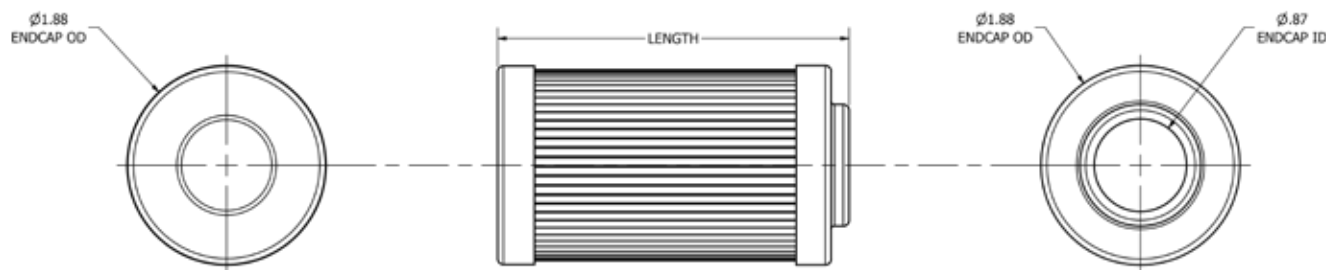
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 435 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF06		4 = 3.32		1	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna
		7 = 6.00		3	WA = Water Absorptive <i>Available in 3, 6, 10, 25µm</i>	V = Viton
				6	SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>	
				10		
				25		

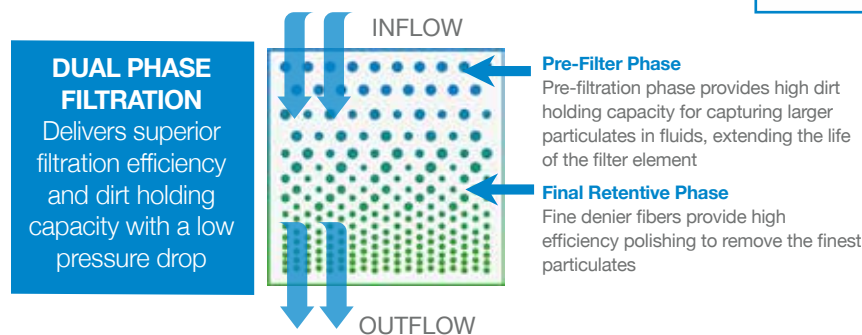
PART NUMBER EXAMPLE: TTSF06-4-3V = TTSF06 (4 length, 3 micron SmartFlow media, viton seal type)



## TT06HC Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

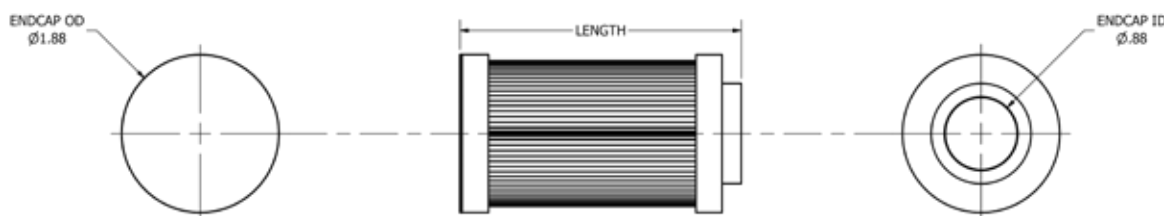
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT06HC		4 = 4.30		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		7 = 6.02		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

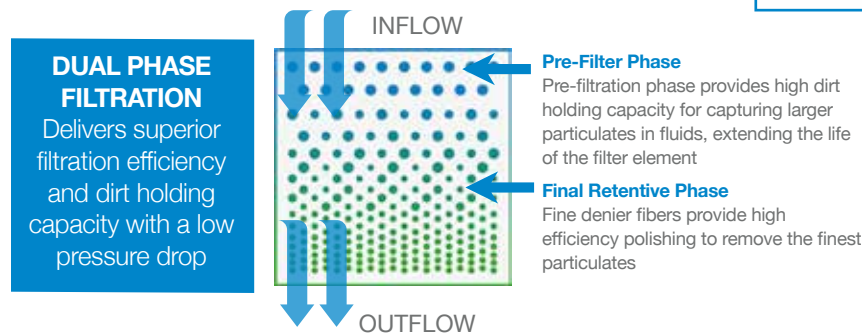
PART NUMBER EXAMPLE: TT06HC-4-3V = TT06HC (4 length, 3 micron, viton seal type)



## TTSF06HC Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

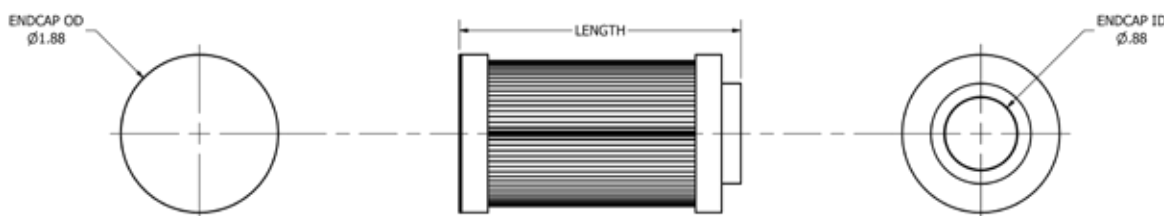
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF06HC		4 = 4.30		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		7 = 6.02		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
				6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		
				25		

PART NUMBER EXAMPLE: TTSF06HC-4-3V = TTSF06HC (4 length, 3 micron SmartFlow media, viton seal type)

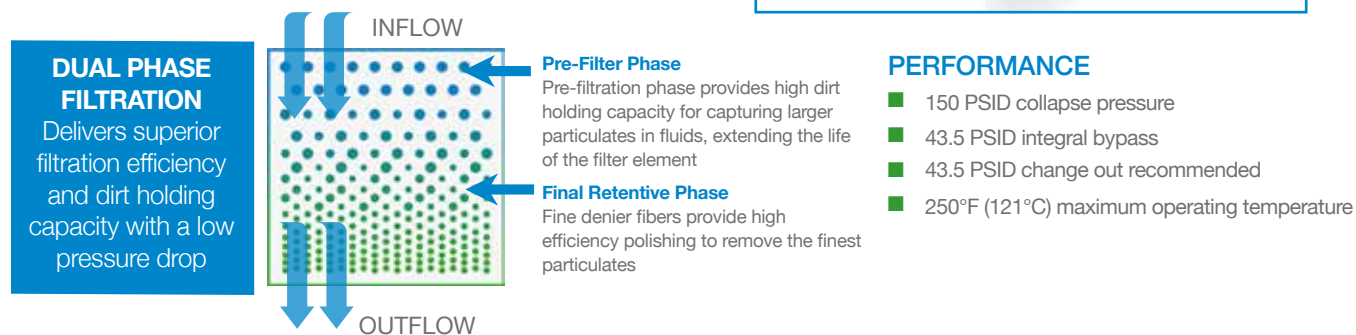




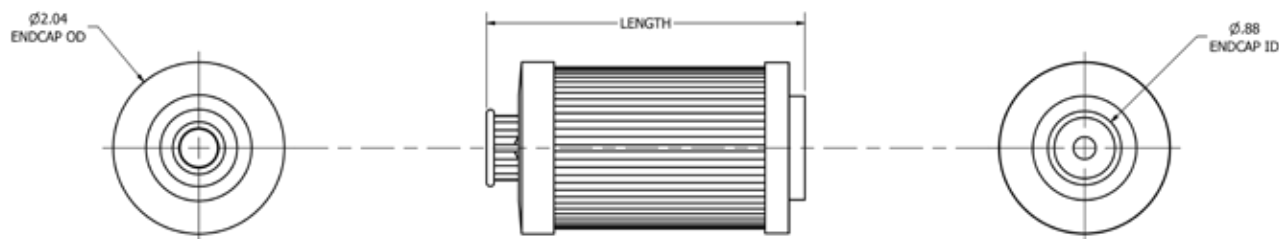
## TT06R Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



## Dimensions



## Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type	-	Bypass
TT06R		5 = 5.75		1	74*	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna	(Omit) = 43 PSI Bypass* <i>*Standard option</i>
		8 = 8.00		3	149*	WA = Water Absorptive <i>Available in 3, 6, 10, 25µm</i>	V = Viton	XBP = No Bypass
				6		SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>		
				10		*W = Stainless Steel Wire Mesh <i>Only available in nominally rated 25, 74, 149µm</i>		
				25				

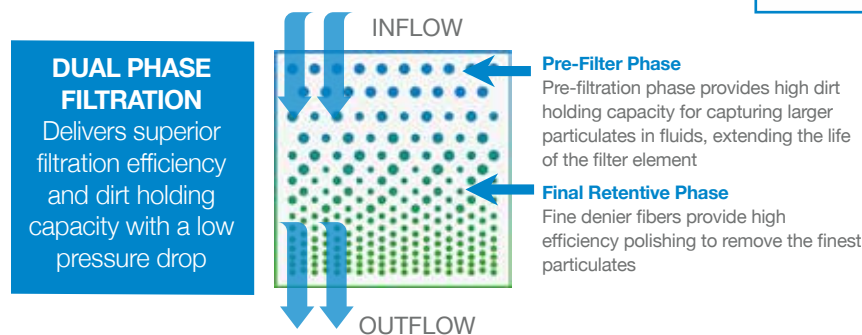
PART NUMBER EXAMPLE: TT06R-5-3V = TT06R (5 length, 3 micron, viton, with 43 PSI bypass)



## TTSF06R Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

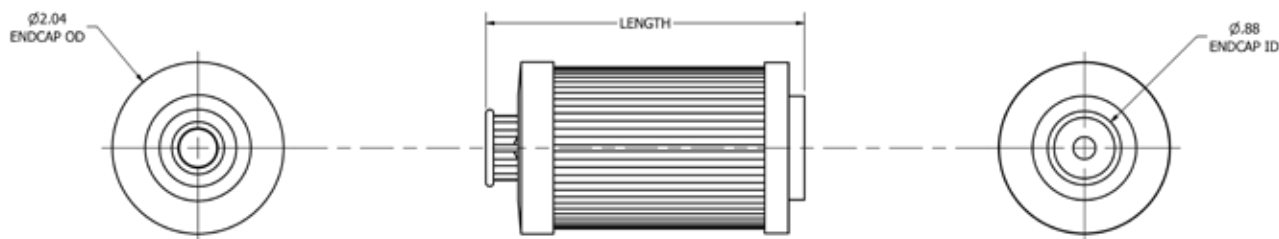
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 43.5 PSID integral bypass
- 43.5 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type	-	Bypass
TTSF06R		5 = 5.75		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna		(Omit) = 43 PSI Bypass* <small>*Standard option</small>
		8 = 8.00		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton		XBP = No Bypass
				6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>			
				10				
				25				

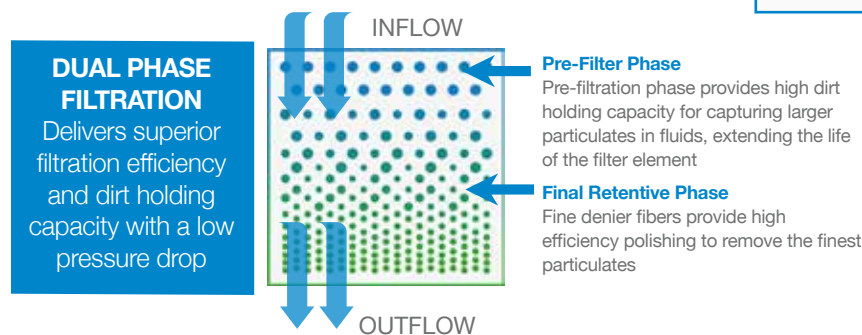
PART NUMBER EXAMPLE: TTSF06R-5-3V = TTSF06R (5 length, 3 micron SmartFlow media, viton, with 43 PSI bypass)



## TT-08 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

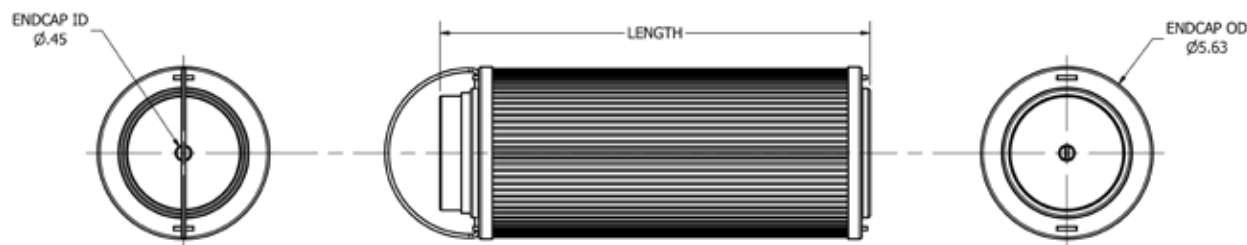
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Micron Rating	Media Type	Seal Type	-ND
TT-08		1 Absolute	(Omit) = Dual Phase Microglass* <i>*Standard option</i>	B = Buna	ND = Non Desiccant Breather
				V = Viton	

PART NUMBER EXAMPLE: TT-08-1V-ND = TT-08 (1 micron absolute, viton seal type, non desiccant breather)



## TTSF-08 Series

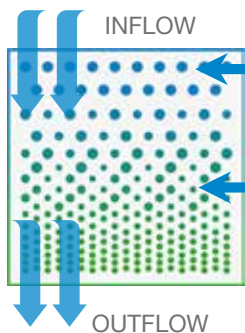
TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### DUAL PHASE FILTRATION

Delivers superior filtration efficiency and dirt holding capacity with a low pressure drop



#### Pre-Filter Phase

Pre-filtration phase provides high dirt holding capacity for capturing larger particulates in fluids, extending the life of the filter element

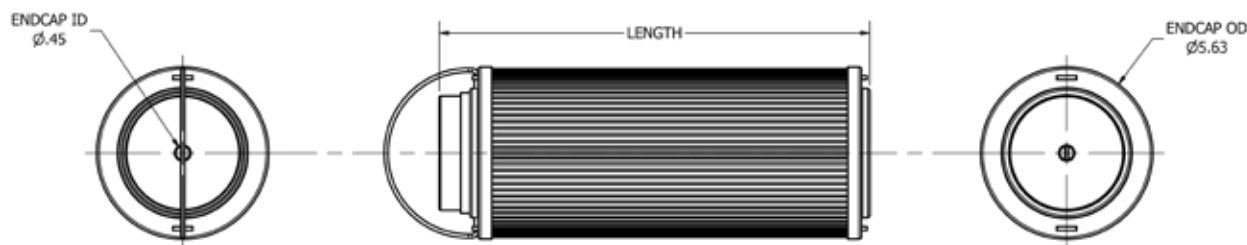
#### Final Retentive Phase

Fine denier fibers provide high efficiency polishing to remove the finest particulates

### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Micron Rating	Media Type	Seal Type	-ND
TTSF-08		1 Absolute	(Omit) = Dual Phase Microglass* *Standard option	B = Buna	ND = Non Desiccant Breather
				V = Viton	

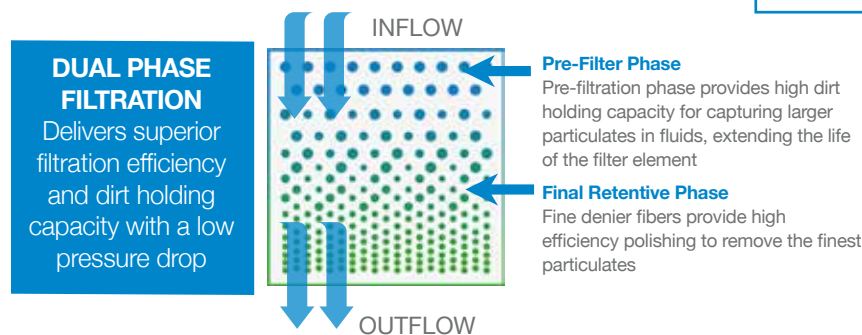
PART NUMBER EXAMPLE: TTSF-08-1V-ND = TTSF-08 (1 micron absolute SmartFlow media, viton seal type, non desiccant breather)



## TT16 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

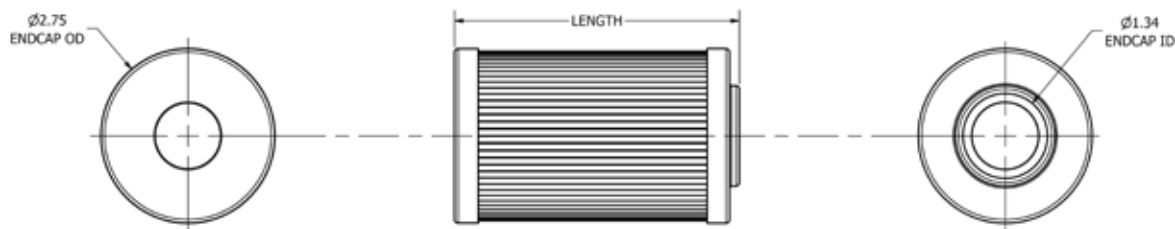
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 435 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT16		5 = 4.50		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		8 = 6.85		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		14 = 13.98		6		WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

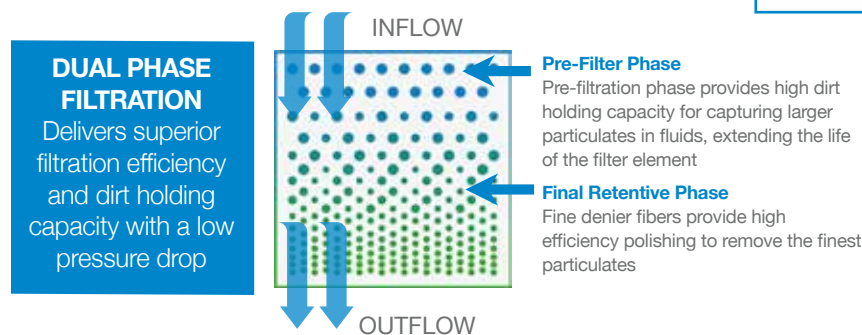
PART NUMBER EXAMPLE: TT16-5-3V = TT16 (5 length, 3 micron, viton seal type)



## TTSF16 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

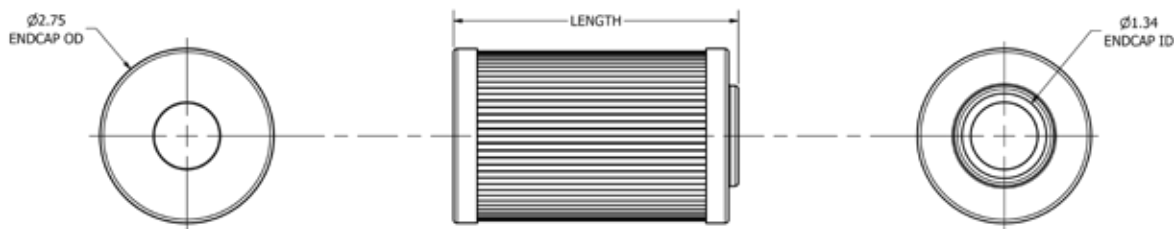
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 435 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF16		5 = 4.50		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		8 = 6.85		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		14 = 13.98		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		
				25		

PART NUMBER EXAMPLE: TTSF16-5-3V = TTSF16 (5 length, 3 micron SmartFlow media, viton seal type)

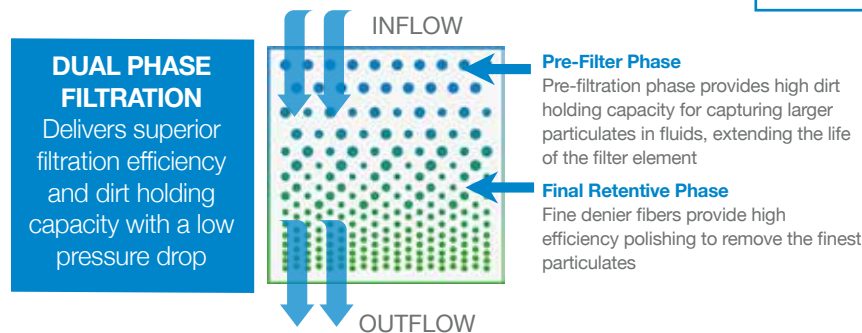




## TT16HC Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

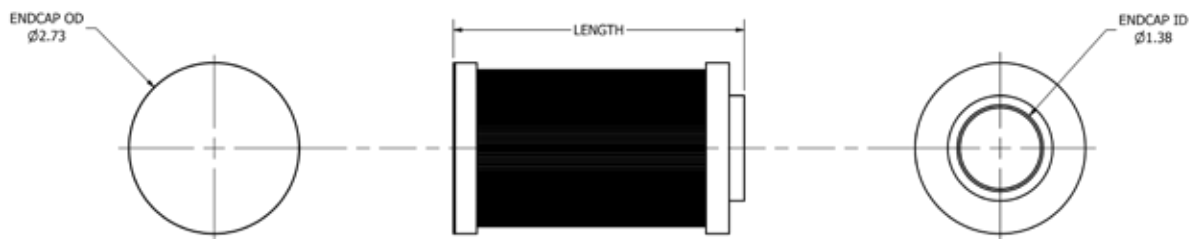
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT16HC		5 = 4.49		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		8 = 6.83		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		14 = 13.98		6		WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

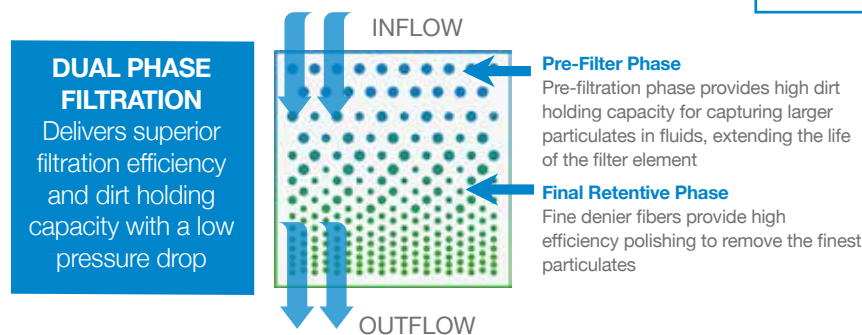
PART NUMBER EXAMPLE: TT16HC-5-3V = TT16HCv (5 length, 3 micron, viton seal type)



## TTSF16HC Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

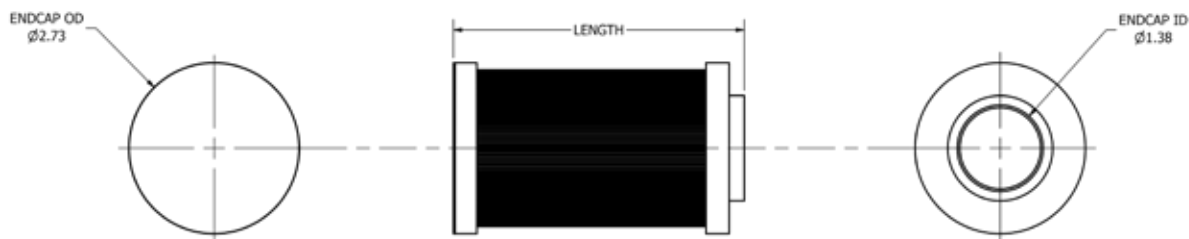
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF16HC		5 = 4.49		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		8 = 6.83		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		14 = 13.98		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		
				25		

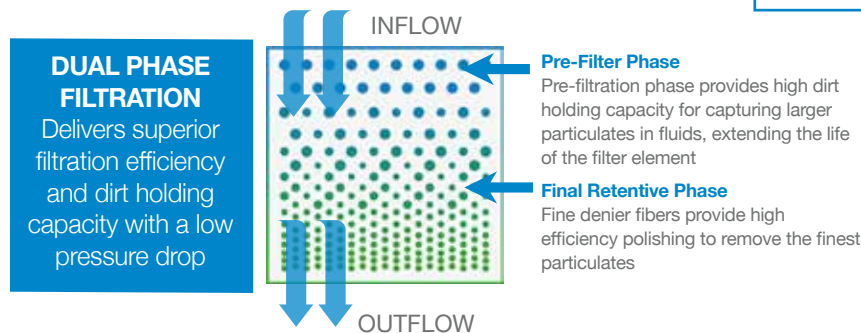
PART NUMBER EXAMPLE: TTSF16HC-5-3V = TTSF16HC (5 length, 3 micron SmartFlow media, viton seal type)



## TT16R Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

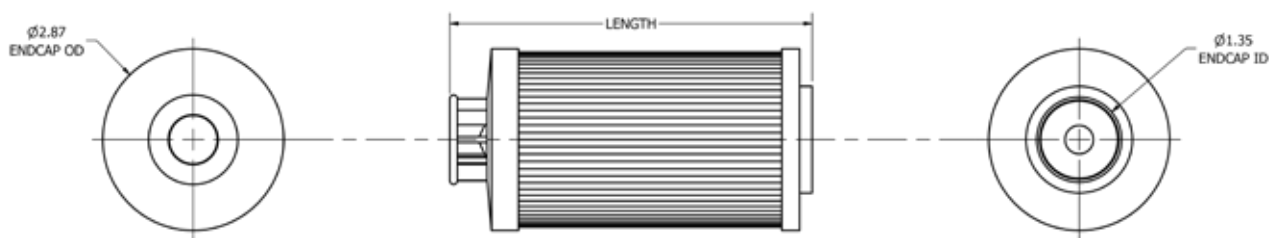
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 43.5 PSID integral Bypass
- 43.5 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type	-	Bypass
TT16R		5 = 5.75		1	74*	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna	(Omit) = 43 PSI Bypass* <i>*Standard option</i>
		8 = 8.00		3	149*	WA = Water Absorptive <i>Available in 3, 6, 10, 25µm</i>	V = Viton	XBP = No Bypass
		14 = 15.12		6		SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>		
				10		*W = Stainless Steel Wire Mesh <i>Only available in nominally rated 25, 74, 149µm</i>		
				25				

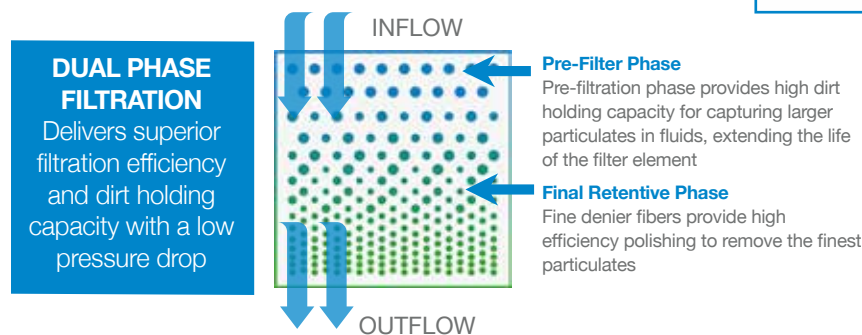
PART NUMBER EXAMPLE: TT16R-5-3V = TT16R (5 length, 3 micron, viton, with 43 PSI bypass)



## TTSF16R Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

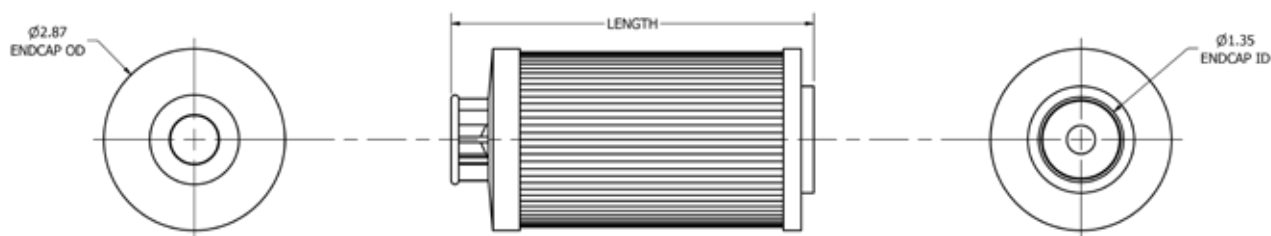
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 43.5 PSID integral Bypass
- 43.5 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type	-	Bypass
TTSF16R		5 = 5.75		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna		(Omit) = 43 PSI Bypass* <small>*Standard option</small>
		8 = 8.00		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton		XBP = No Bypass
		14 = 15.12		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>			
				10				
				25				

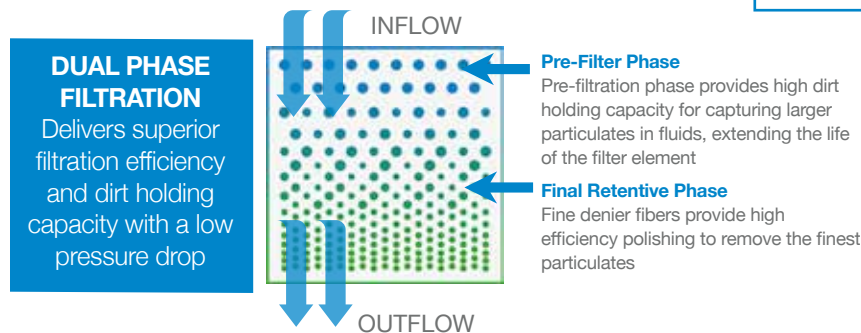
PART NUMBER EXAMPLE: TTSF16R-5-3V = TTSF16R (5 length, 3 micron SmartFlow media, viton, with 43 PSI bypass)



## TT32 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

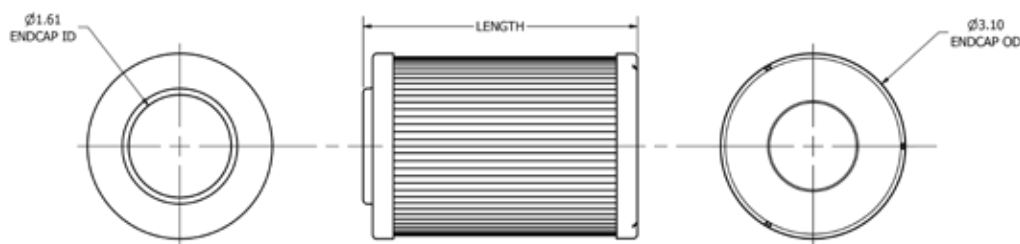
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)		-	Micron Rating (µm)		Media Type	Seal Type
TT32		4 = 4.51	12 = 13.11		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		6 = 6.18	15 = 14.87		3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		7 = 6.68	16 = 15.61		6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		9 = 9.18	17 = 15.75		10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
		10 = 9.72	20 = 20.18		25			

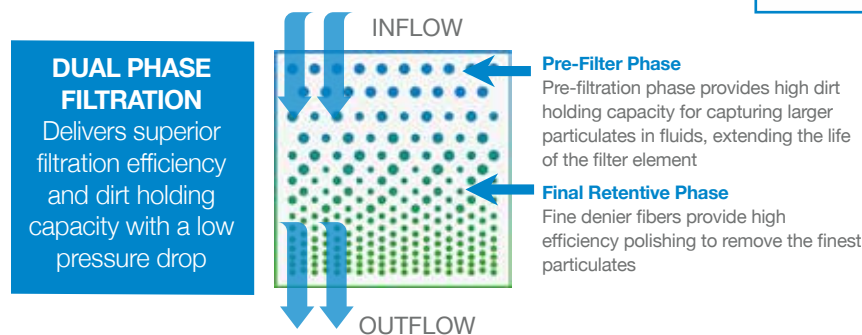
PART NUMBER EXAMPLE: TT32-7-3V = TT32 (7 length, 3 micron, viton seal type)



## TTSF32 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

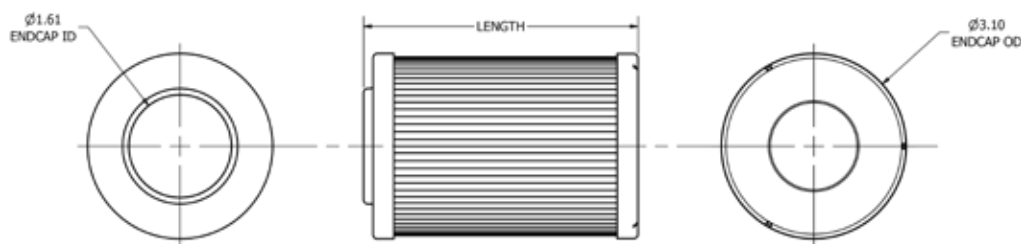
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)		-	Micron Rating (µm)	Media Type	Seal Type
TTSF32		4 = 4.51	12 = 13.11		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		6 = 6.18	15 = 14.87		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		7 = 6.68	16 = 15.61		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		9 = 9.18	17 = 15.75		10		
		10 = 9.72	20 = 20.18		25		

PART NUMBER EXAMPLE: TTSF32-7-3V = TTSF32 (7 length, 3 micron SmartFlow media, viton seal type)

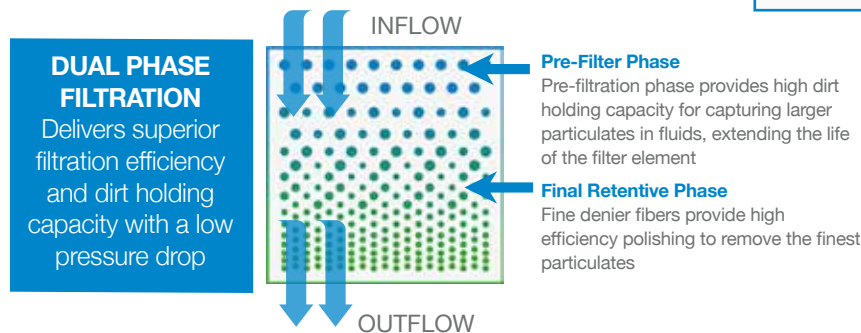




## TT33 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

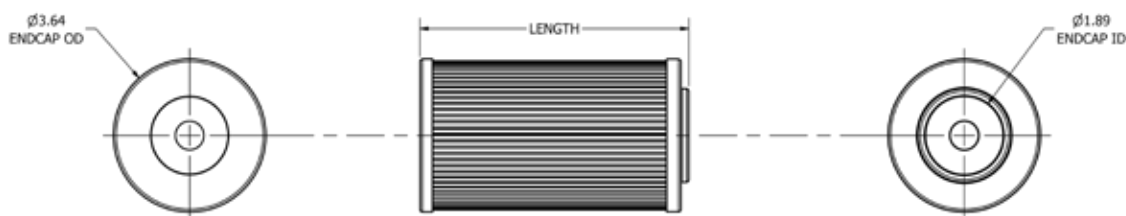
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 435 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT33		7 = 6.43		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		10 = 10.02		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		14 = 12.93		6		WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	
		26 = 25.63		10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

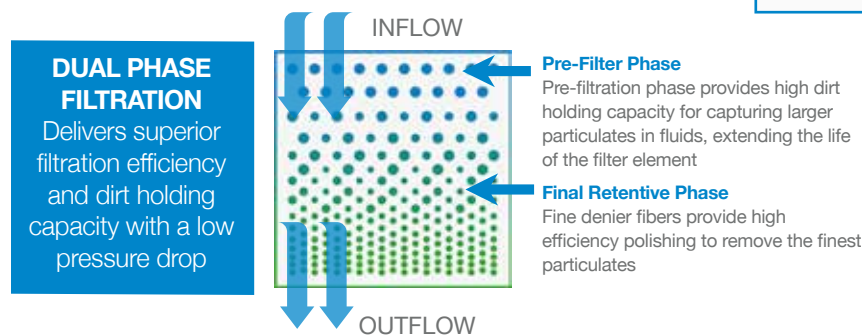
PART NUMBER EXAMPLE: TT33-7-3V = TT33 (7 length, 3 micron, viton seal type)



## TTSF33 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

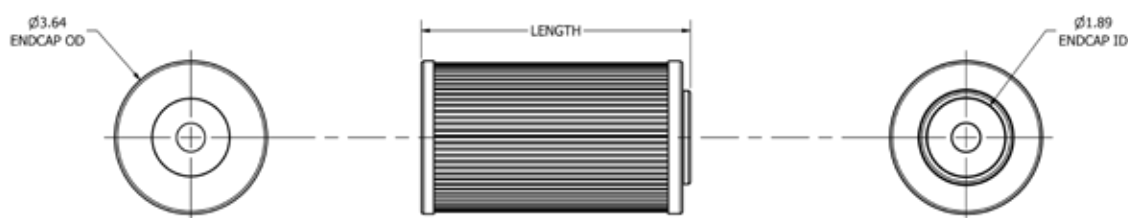
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 435 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF33		7 = 6.43		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		10 = 10.02		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		14 = 12.93		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		26 = 25.63		10		
				25		

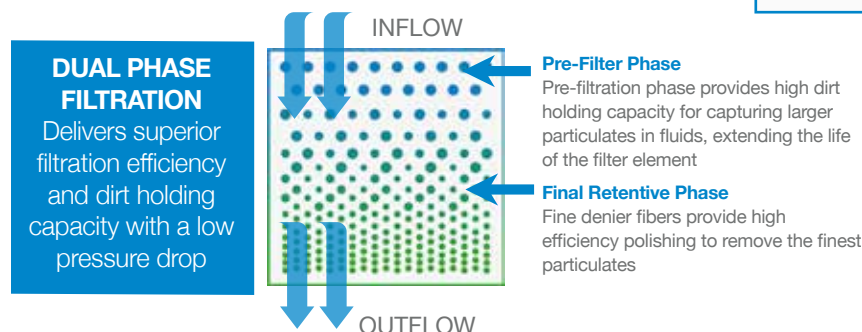
PART NUMBER EXAMPLE: TTSF33-7-3V = TTSF33 (7 length, 3 micron SmartFlow media, viton seal type)



## TT33HC Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

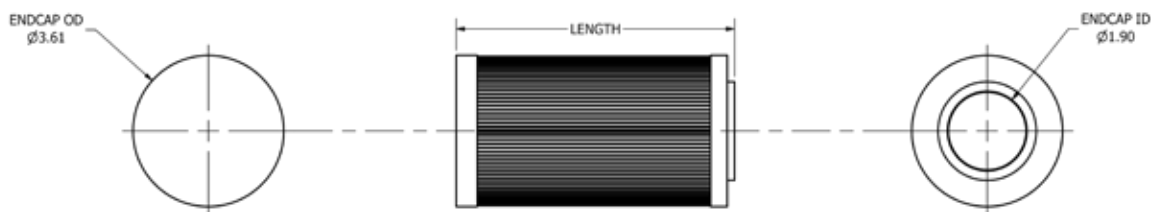
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT33HC		7 = 6.43		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		10 = 10.00		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		14 = 12.93		6		WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	
		26 = 25.63		10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

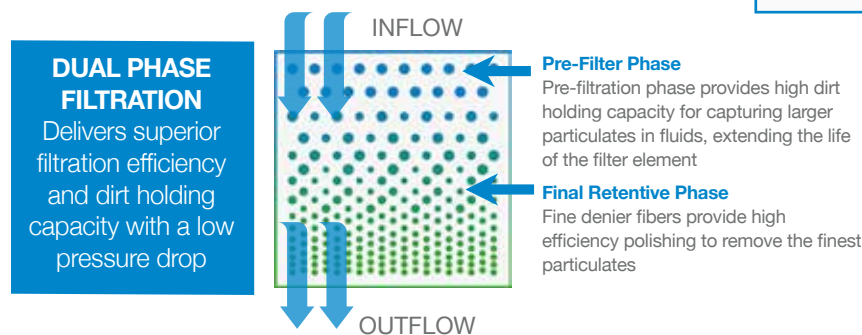
PART NUMBER EXAMPLE: TT33HC-7-3V = TT33HC (7 length, 3 micron, viton seal type)



## TTSF33HC Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF33HC		7 = 6.43		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		10 = 10.00		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		14 = 12.93		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		26 = 25.63		10		
				25		

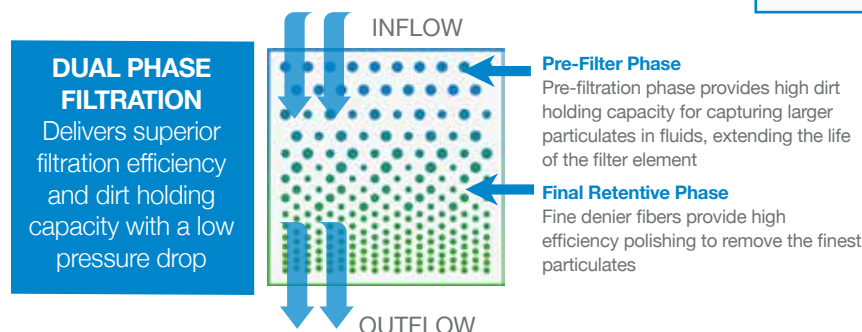
PART NUMBER EXAMPLE: TTSF33HC-7-3V = TTSF33HC (7 length, 3 micron SmartFlow media, viton seal type)



## TT33R Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 43.5 PSID integral bypass
- 43.5 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type	-	Bypass
TT33R		8 = 7.70		1 74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna		(Omit) = 43 PSI Bypass* <small>*Standard option</small>
		10 = 10.80		3 149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton		XBP = No Bypass
				6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>			
				10	*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>			
				25				

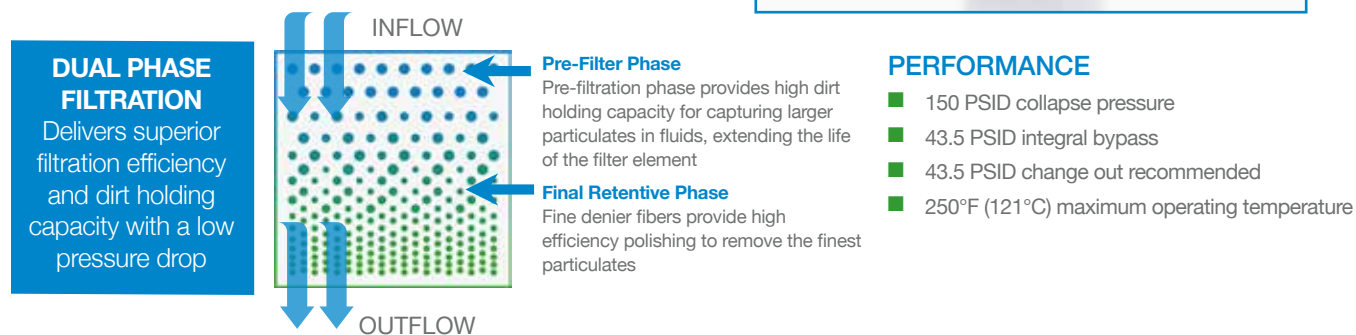
PART NUMBER EXAMPLE: TT33R-8-3V = TT33R (8 length, 3 micron, viton, with 43 PSI bypass)



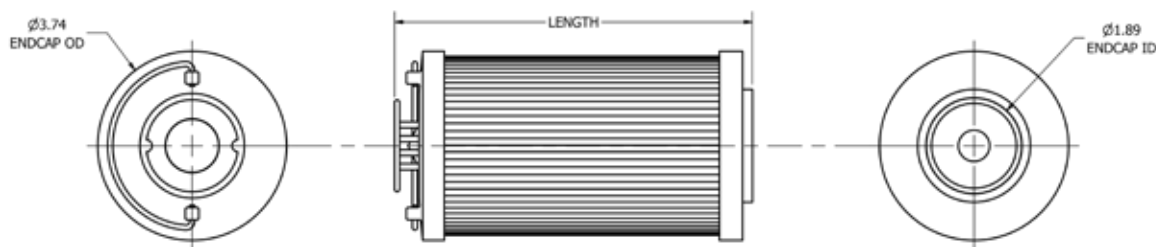
## TTSF33R Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type	-	Bypass
TTSF33R		8 = 7.70		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna		(Omit) = 43 PSI Bypass* <small>*Standard option</small>
		10 = 10.80		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton		XBP = No Bypass
				6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>			
				10				
				25				

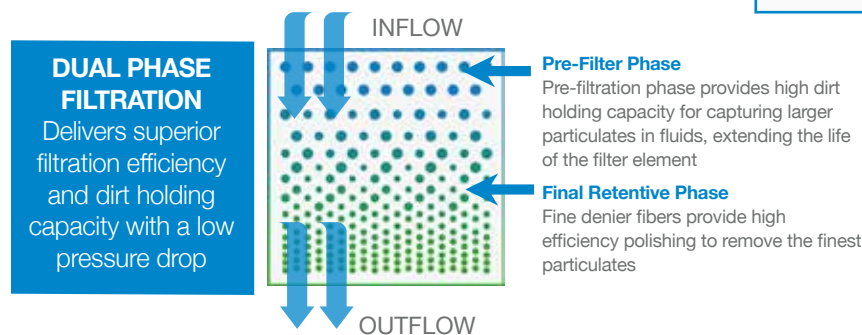
PART NUMBER EXAMPLE: TTSF33R-8-3V = TTSF33R (8 length, 3 micron SmartFlow media, viton, with 43 PSI bypass)



## TT52 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

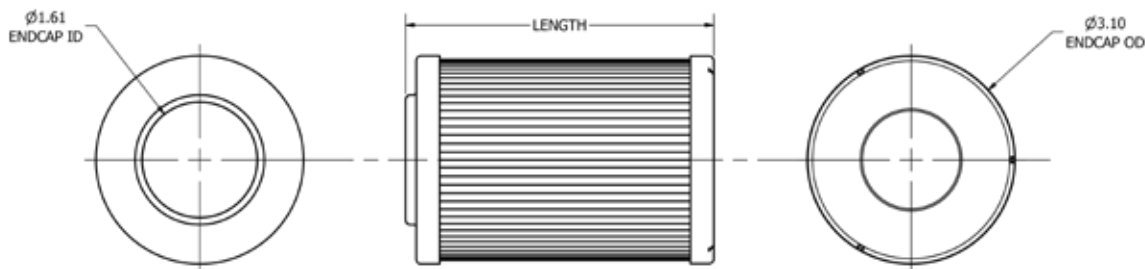
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT52		6 = 6.30		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		10 = 9.84		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		16 = 15.74		6		WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

PART NUMBER EXAMPLE: TT52-6-3V = TT52 (6 length, 3 micron, viton seal type)

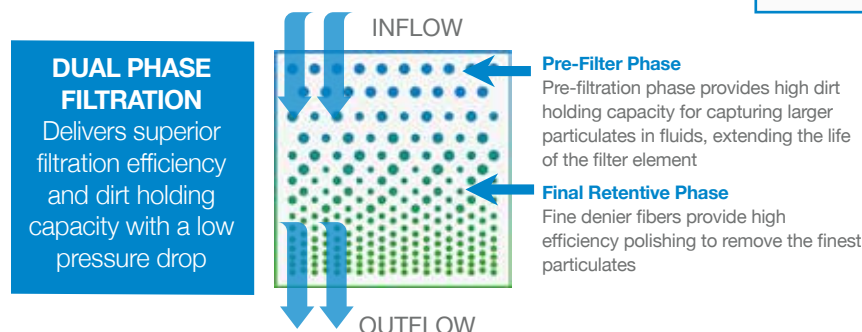




## TTSF52 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

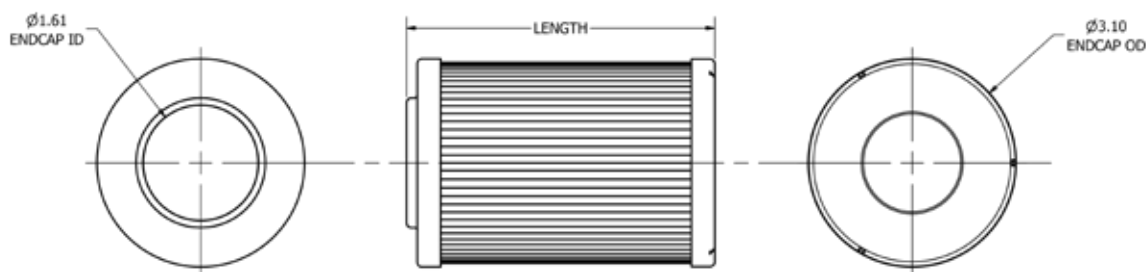
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF52		6 = 6.30		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		10 = 9.84		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		16 = 15.74		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		
				25		

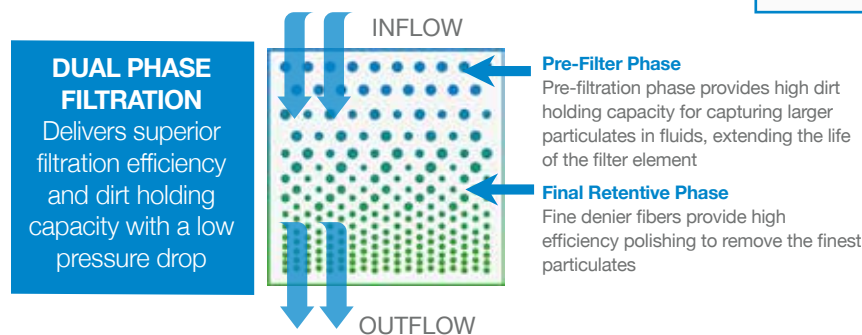
PART NUMBER EXAMPLE: TTSF52-6-3V = TTSF52 (6 length, 3 micron SmartFlow media, viton seal type)



## TT66R Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

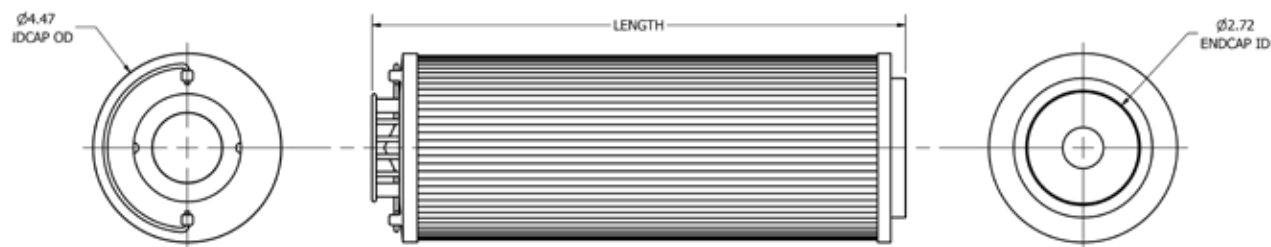
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 43.5 PSID integral bypass
- 43.5 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type	-	Bypass
TT66R		14 = 13.09		1 74*	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna		(Omit) = 43 PSI Bypass* <i>*Standard option</i>
		18 = 16.26		3 149*	WA = Water Absorptive <i>Available in 3, 6, 10, 25µm</i>	V = Viton		XBP = No Bypass
		25 = 24.74		6	SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>			
		31 = 31.25		10	*W = Stainless Steel Wire Mesh <i>Only available in nominally rated 25, 74, 149µm</i>			
				25				

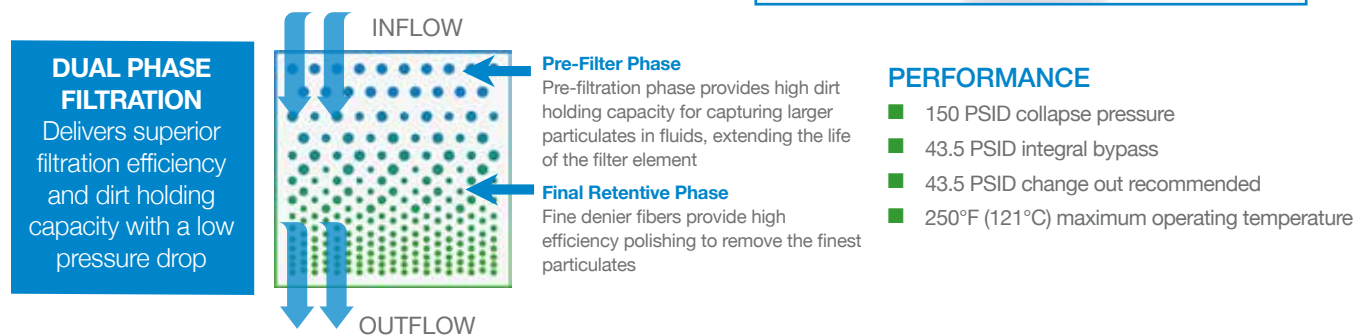
PART NUMBER EXAMPLE: TT66R-14-3V = TT66R (14 length, 3 micron, viton, with 43 PSI bypass)



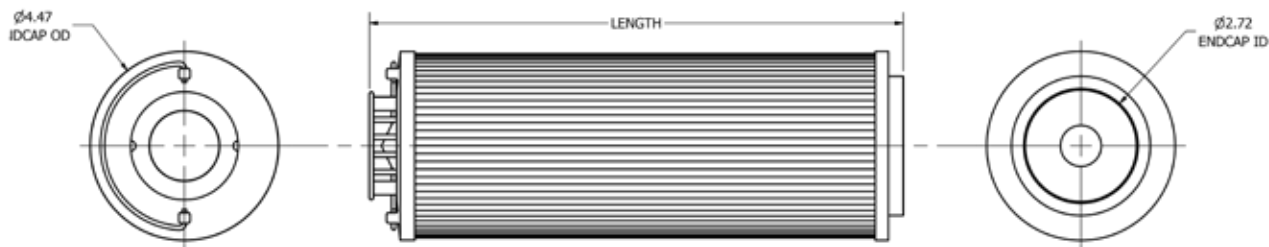
## TTSF66R Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type	-	Bypass
TTSF66R		14 = 13.09		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna		(Omit) = 43 PSI Bypass* <small>*Standard option</small>
		18 = 16.26		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton		XBP = No Bypass
		25 = 24.74		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>			
		31 = 31.25		10				
				25				

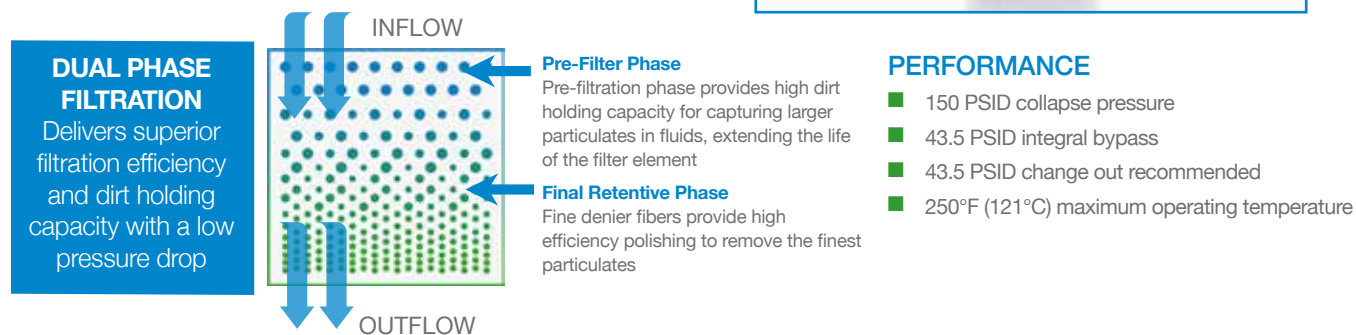
PART NUMBER EXAMPLE: TTSF66R-14-3V = TTSF66R (14 length, 3 micron SmartFlow media, viton, with 43 PSI bypass)



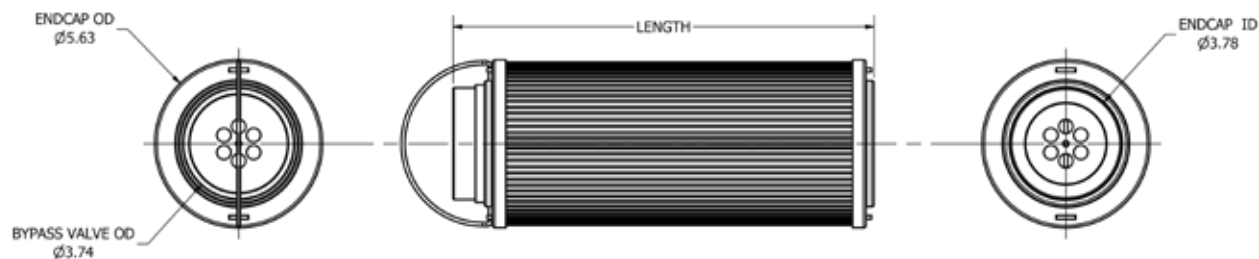
## TT95R Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



## Dimensions



## Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type	-	Bypass
TT95R		14 = 14.13		1 74*	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna		(Omit) = 43 PSI Bypass* <i>*Standard option</i>
		18 = 18.99		3 149*	WA = Water Absorptive <i>Available in 3, 6, 10, 25µm</i>	V = Viton		XBP = No Bypass
		36 = 36.23		6	SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>			
				10	*W = Stainless Steel Wire Mesh <i>Only available in nominally rated 25, 74, 149µm</i>			
				25				

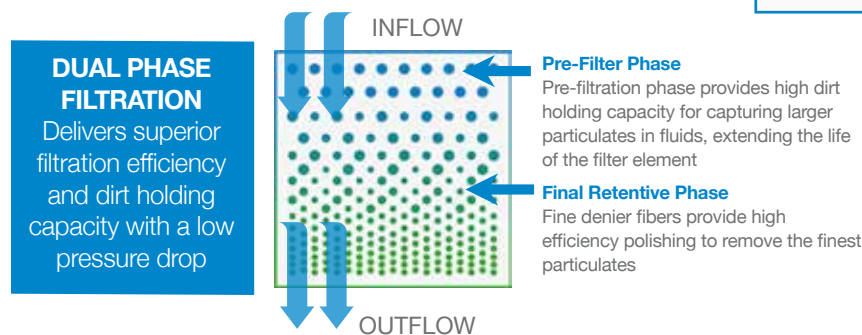
PART NUMBER EXAMPLE: TT95R-14-3V = TT95R (14 length, 3 micron, viton seal type, with 43 PSI bypass)



## TTSF95R Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

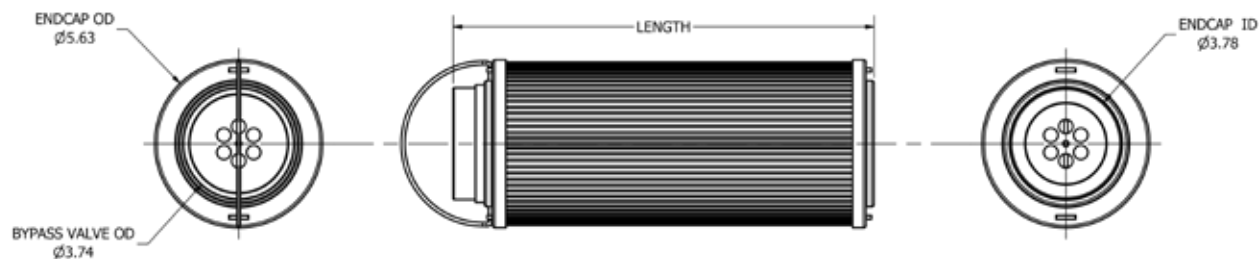
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 43.5 PSID integral bypass
- 43.5 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type	-	Bypass
TTSF95R		14 = 14.13		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna		(Omit) = 43 PSI Bypass* <small>*Standard option</small>
		18 = 18.99		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton		XBP = No Bypass
		36 = 36.23		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>			
				10				
				25				

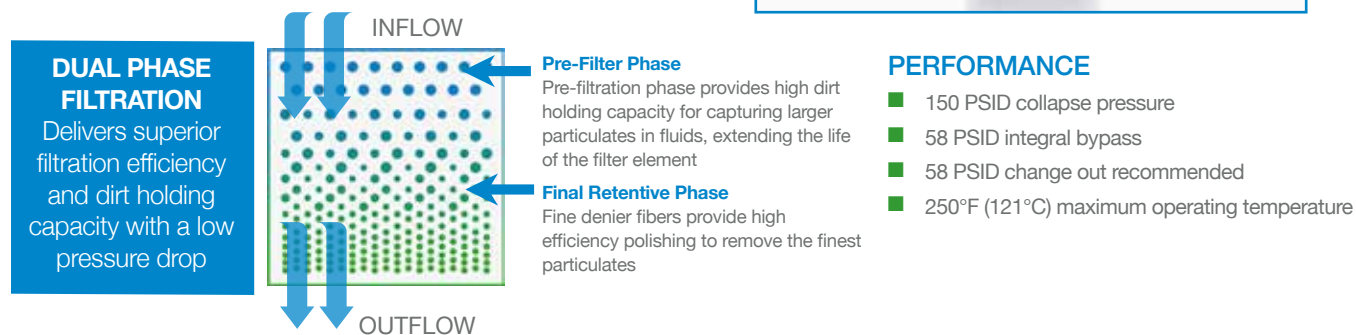
PART NUMBER EXAMPLE: TTSF95R-14-3V = TTSF95R (14 length, 3 micron SmartFlow media, viton seal type, with 43 PSI bypass)



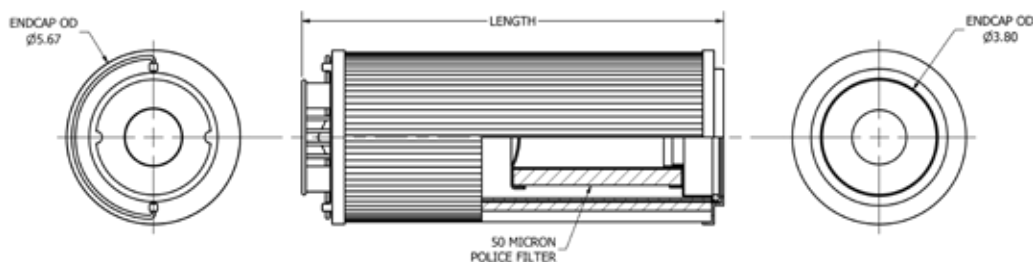
## TT95R-WP Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



## Dimensions



## Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type	-	WP
TT95R		18 = 18.99		1 25*	High Dirt Holding Capacity Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna		WP50
		30 = 30.79		3 74*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton		
		36 = 36.23		5 149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>			
				10	*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>			
				20				

PART NUMBER EXAMPLE: TT95R-18-3V-WP50 = TT95R (18 length, 3 micron, viton seal type, with integrated 50 micron wire mesh police filter element)

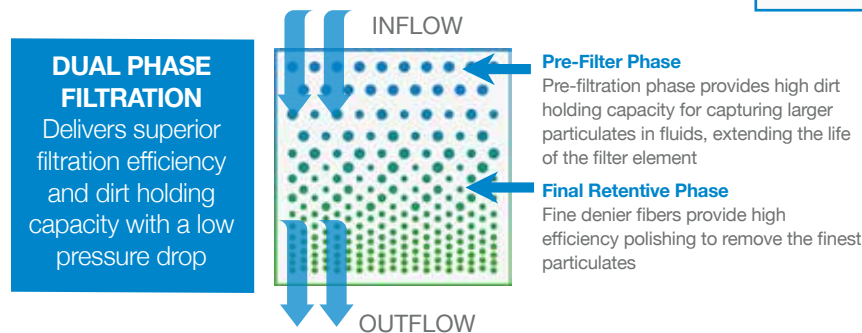




## TTSF95R-WP Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

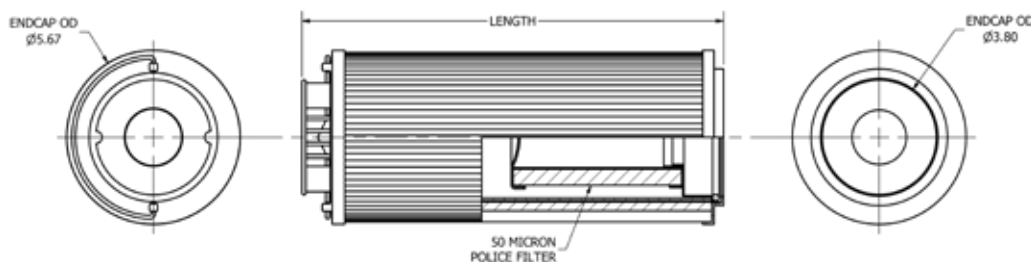
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 58 PSID integral bypass
- 58 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type	-	WP
TTSF95R		18 = 18.99		1	High Dirt Holding Capacity Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna		WP50
		30 = 30.79		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton		
		36 = 36.23		5	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>			
				10				
				20				

PART NUMBER EXAMPLE: TTSF95R-18-3V-WP50 = TTSF95R (18 length, 3 micron SmartFlow media, viton seal type, with integrated 50 micron wire mesh police filter element)

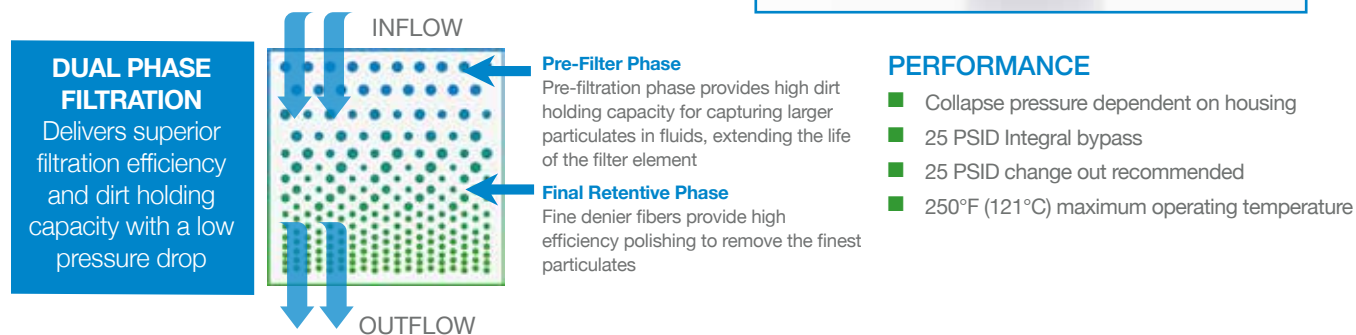




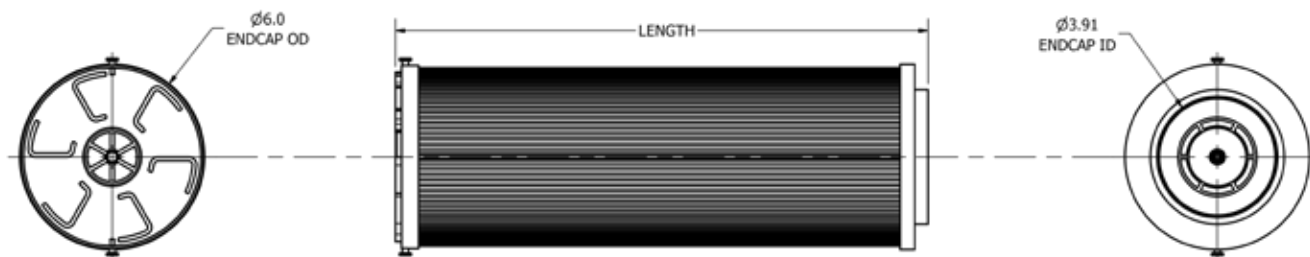
## TT106 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



## Dimensions



## Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT106		10 = 10.07		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		16 = 14.64		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		18 = 17.30		6		WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	
		36 = 35.60		10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

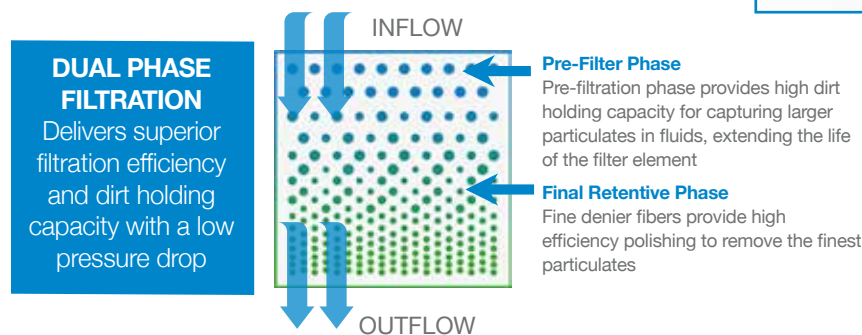
PART NUMBER EXAMPLE: TT106-36-3V = TT106 (36 length, 3 micron, viton seal type)



## TTSF106 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- Collapse pressure dependent on housing
- 25 PSID Integral bypass
- 25 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF106		10 = 10.07		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		16 = 14.64		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		18 = 17.30		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		36 = 35.60		10		
				25		

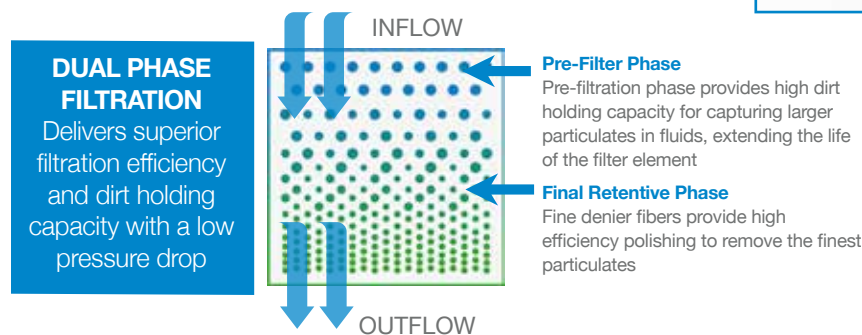
PART NUMBER EXAMPLE: TSFT106-36-3V = TTSF106 (36 length, 3 micron SmartFlow media, viton seal type)



## TT107 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- Collapse pressure dependent on housing
- 50 PSID integral bypass
- 50 PSID recommended change out
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT107		10 = 10.07		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		16 = 14.64		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		18 = 17.30		6		WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	
		36 = 35.60		10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

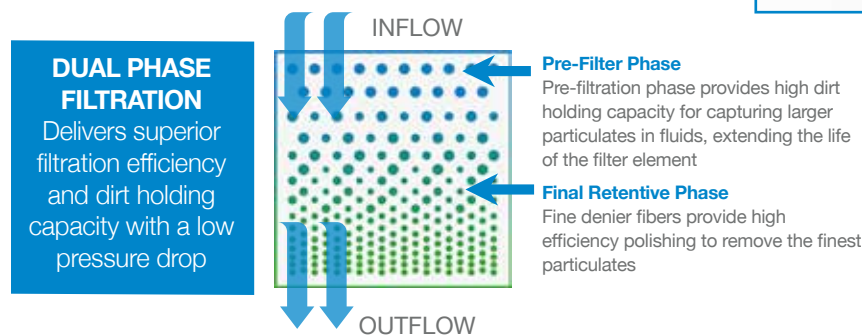
PART NUMBER EXAMPLE: TT107-36-3V = TT107 (36 length, 3 micron, viton seal type)



## TTSF107 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

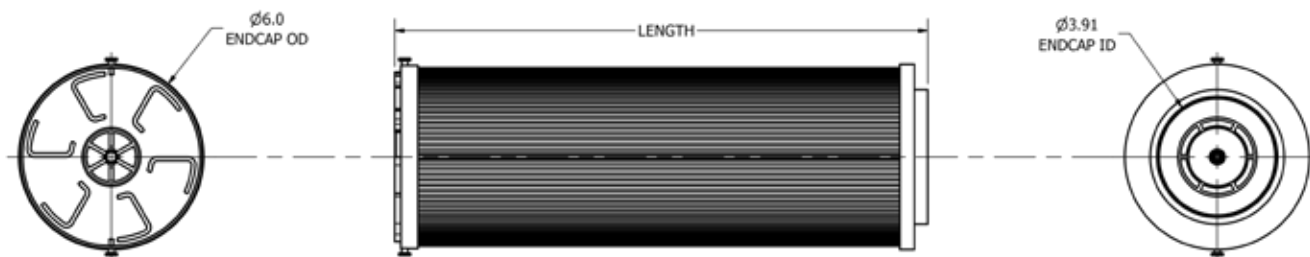
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- Collapse pressure dependent on housing
- 50 PSID integral bypass
- 50 PSID recommended change out
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF107		10 = 10.07		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		16 = 14.64		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		18 = 17.30		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		36 = 35.60		10		
				25		

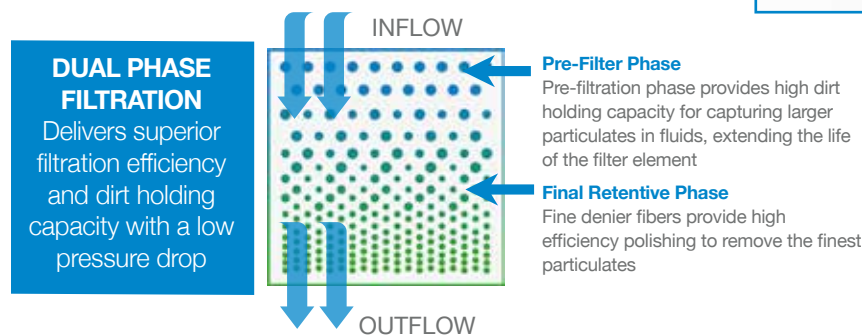
PART NUMBER EXAMPLE: TTSF107-36-3V = TTSF107 (36 length, 3 micron SmartFlow media, viton seal type)



## TT108 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- Collapse pressure dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT108		10 = 10.07		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		16 = 14.64		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		18 = 17.30		6		WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	
		36 = 35.60		10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

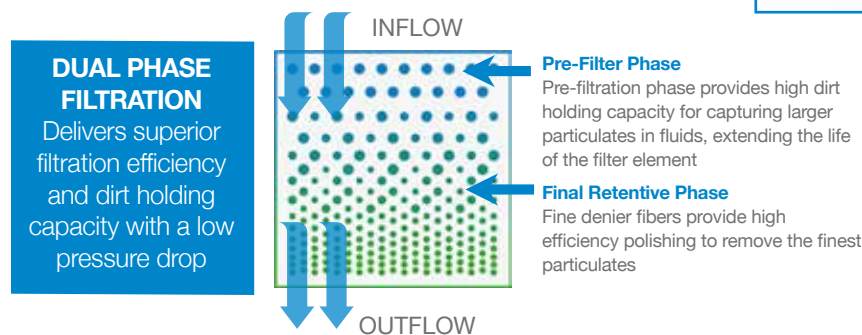
PART NUMBER EXAMPLE: TT108-36-3V = TT108 (36 length, 3 micron, viton seal type)



## TTSF108 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- Collapse pressure dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF108		10 = 10.07		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		16 = 14.64		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		18 = 17.30		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		36 = 35.60		10		
				25		

PART NUMBER EXAMPLE: TTSF108-36-3V = TTSF108 (36 length, 3 micron SmartFlow media, viton seal type)

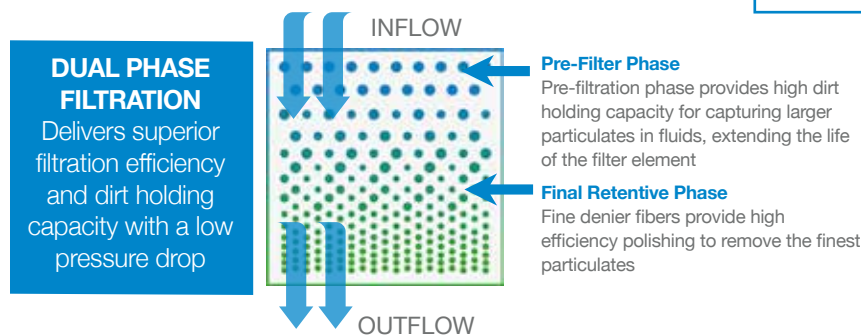
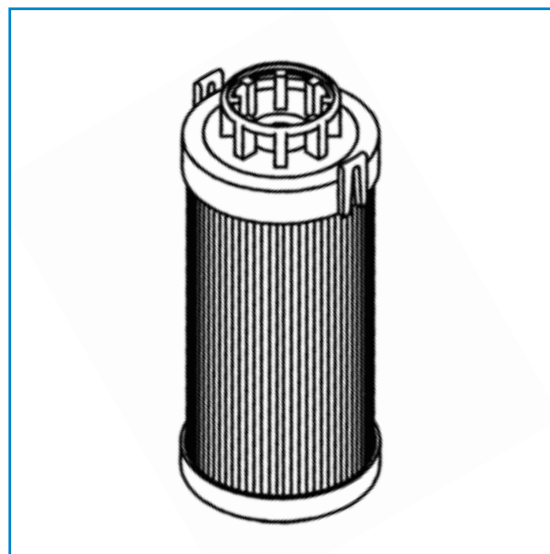




## TT165R Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

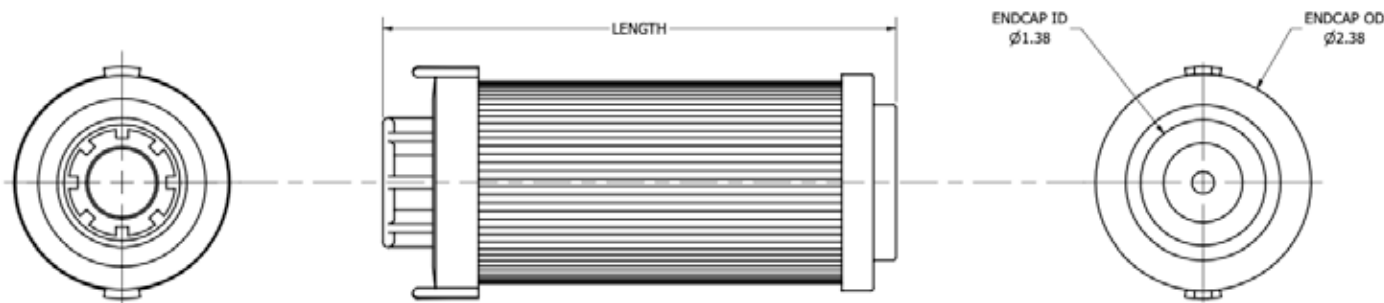
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 290 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating ( $\mu\text{m}$ )	Media Type	Seal Type
TT165R		5 = 5.66"		1	(Omit) = Dual Phase Microglass <small>Standard option <math>\beta 1000</math>, available in 1, 3, 6, 10, 25<math>\mu\text{m}</math></small>	B = Buna
		9 = 8.57"		3		V = Viton
		11 = 11.59"		6		
				10		
				25		

PART NUMBER EXAMPLE: TT165R-9-3V = TT165R (9 length, 3 micron, viton seal type)

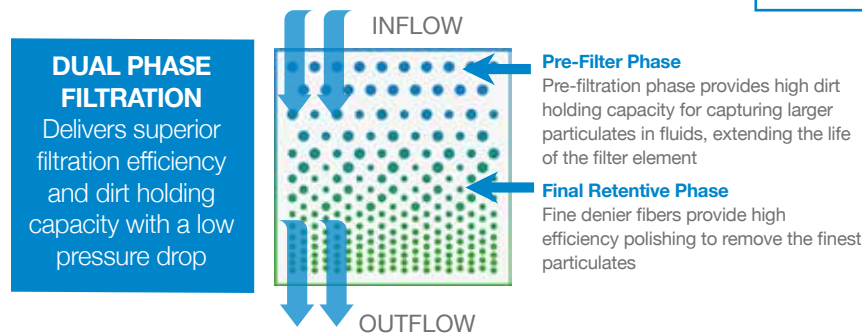
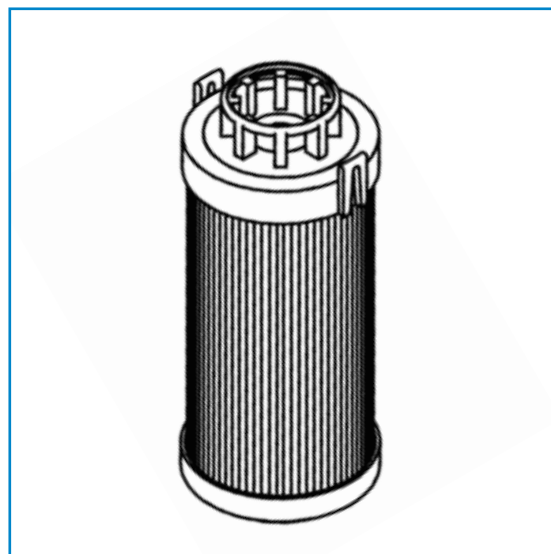




## TTSF165R Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

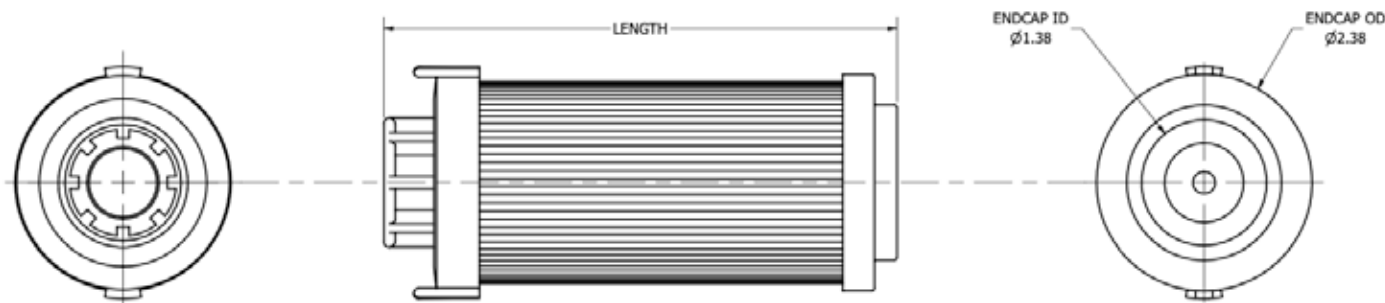
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 290 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF165R		5 = 5.66"		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		9 = 8.57"		3		V = Viton
		11 = 11.59"		6		
				10		
				25		

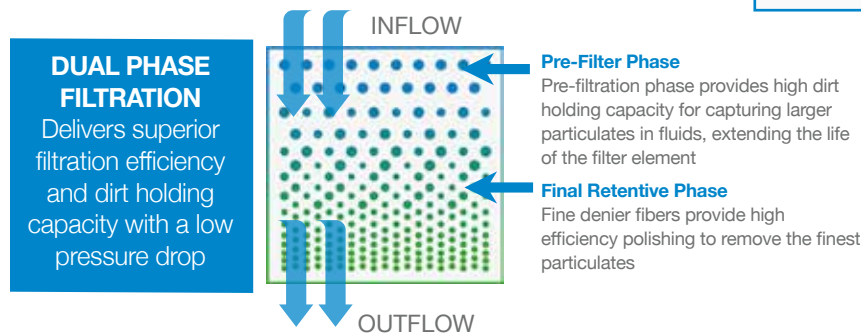
PART NUMBER EXAMPLE: TTSF165R-9-3V = TTSF165R (9 length, 3 micron, viton seal type)



## TT170 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 290 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT170		5 = 5.35		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		10 = 9.62		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

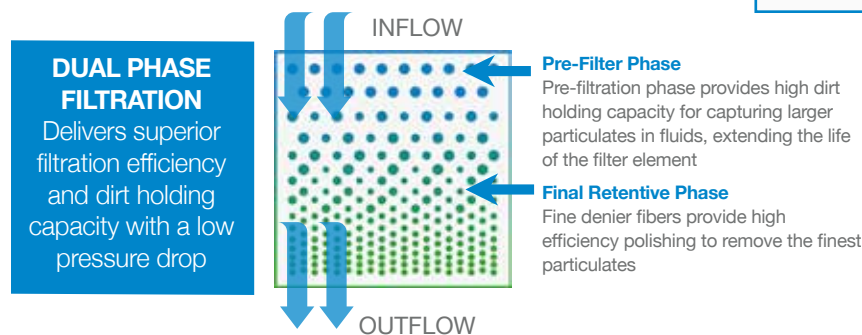
PART NUMBER EXAMPLE: TT170-5-3V = TT170 (5 length, 3 micron, viton seal type)



## TTSF170 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 290 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF170		5 = 5.35		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		10 = 9.62		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
				6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		
				25		

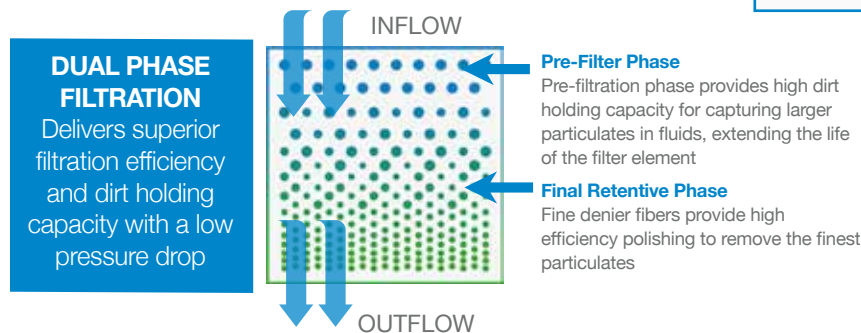
PART NUMBER EXAMPLE: TTSF170-5-3V = TTSF170 (5 length, 3 micron SmartFlow media, viton seal type)



## TT171 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

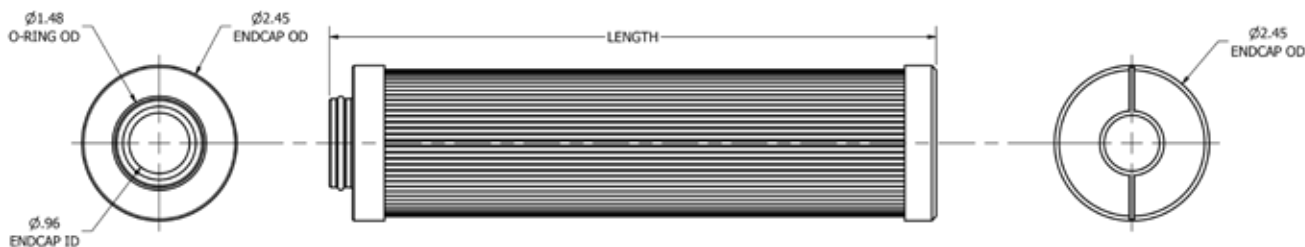
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 290 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT171		5 = 5.35		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		10 = 9.62		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

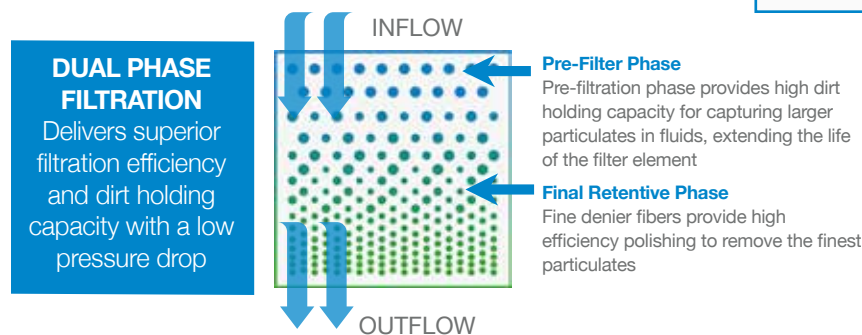
PART NUMBER EXAMPLE: TT171-5-3V = TT171 (5 length, 3 micron, viton seal type)



## TTSF171 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

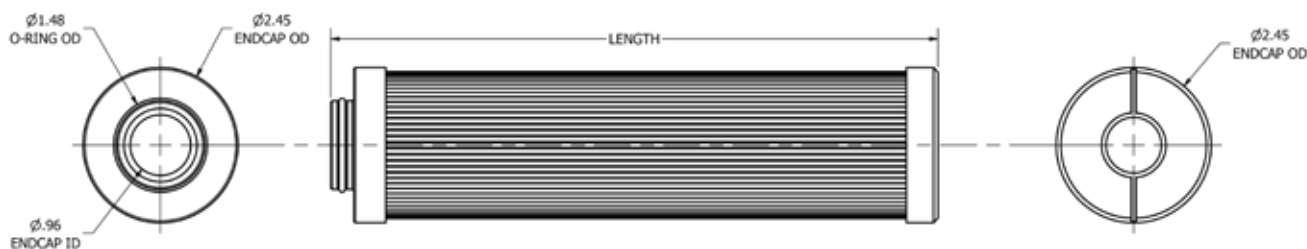
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 290 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF171		5 = 5.35		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		10 = 9.62		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
				6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		
				25		

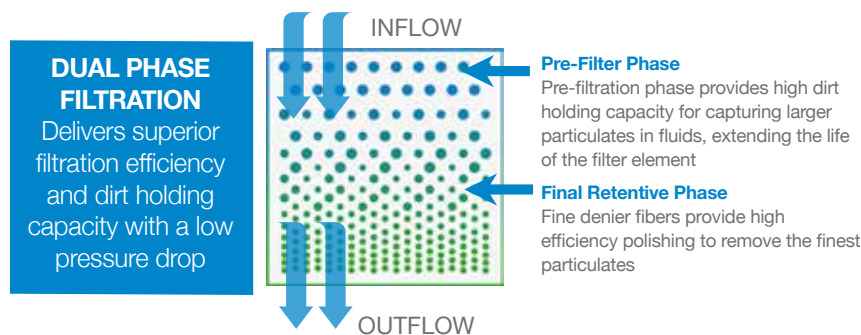
PART NUMBER EXAMPLE: TTSF171-5-3V = TTSF171 (5 length, 3 micron SmartFlow media, viton seal type)



## TT207 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

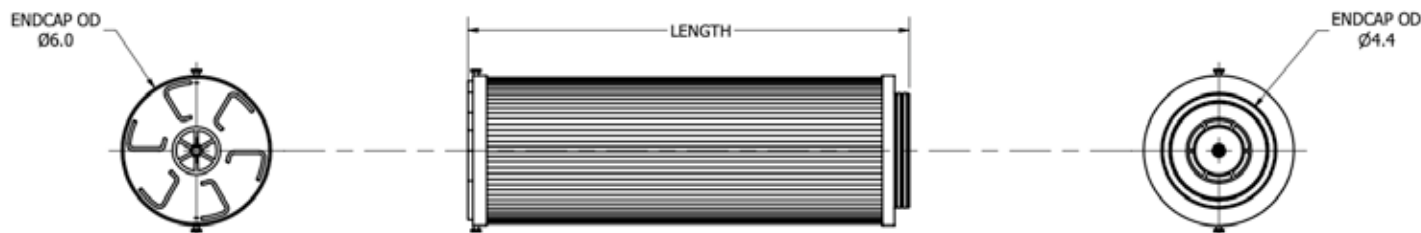
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature
- Collapse Pressure Dependent on Housing

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT207		18 = 17.30		1	74*	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna
		36 = 35.60		3	149*	SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>	V = Viton
				6		WA = Water Absorptive <i>Available in 3, 6, 10, 25µm</i>	
				10		*W = Stainless Steel Wire Mesh <i>Only available in nominally rated 25, 74, 149µm</i>	
				25			

PART NUMBER EXAMPLE: TT207-36-3V = TT207 (36 length, 3 micron, viton seal type)

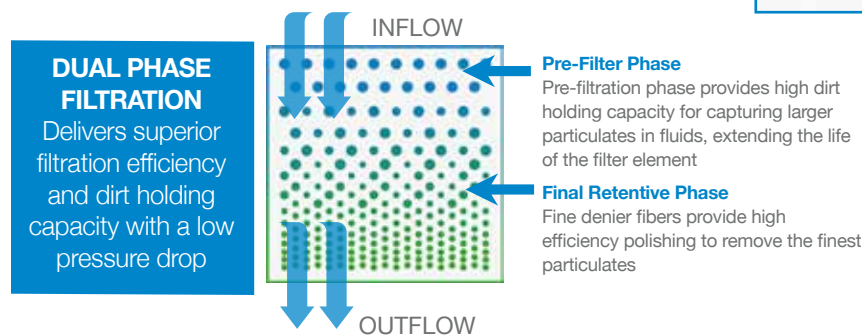




## TT210 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

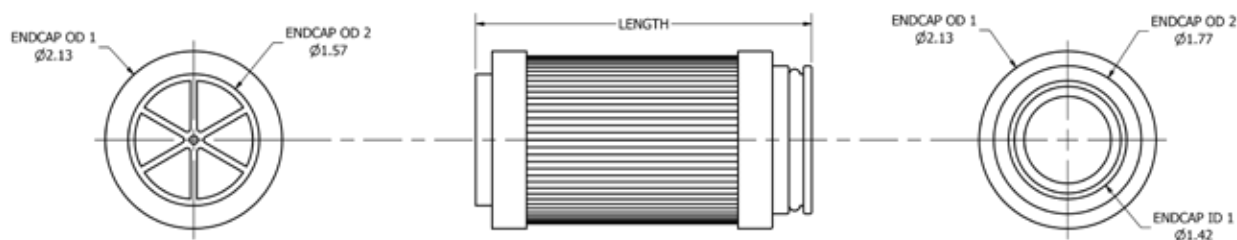
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- Collapse rating dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT210		04 = 4.76		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		08 = 8.78		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		13 = 14.06		6		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
		20 = 20.75		10			
				25			

PART NUMBER EXAMPLE: TT210-04-3V = TT210 (04 length, 3 micron, viton seal type)

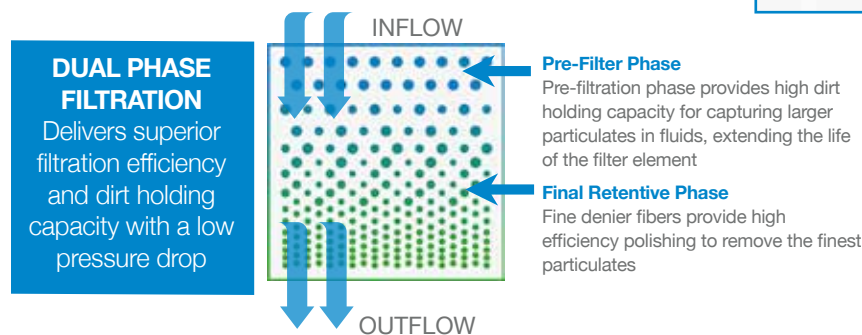




## TTSF210 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

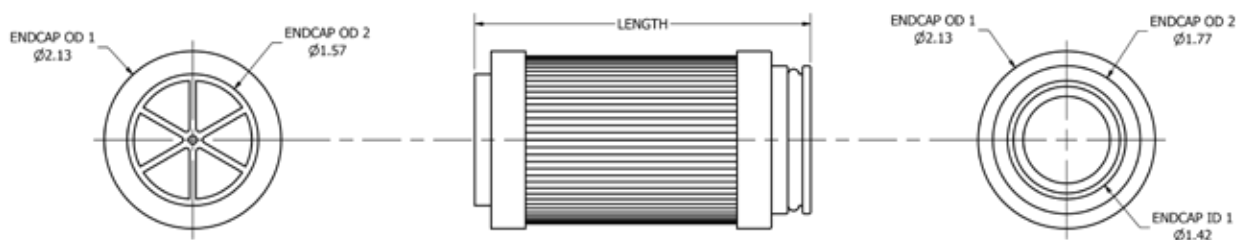
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- Collapse rating dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF210		04 = 4.76		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		08 = 8.78		3	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		13 = 14.06		6		
		20 = 20.75		10		
				25		

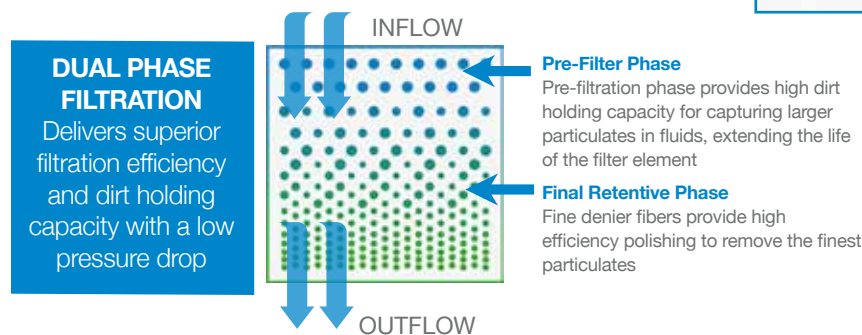
PART NUMBER EXAMPLE: TTSF210-04-3SDV = TTSF210 (04 length, 3 micron SmartFlow media, Static Dissipative media, viton seal type)



## TT219 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

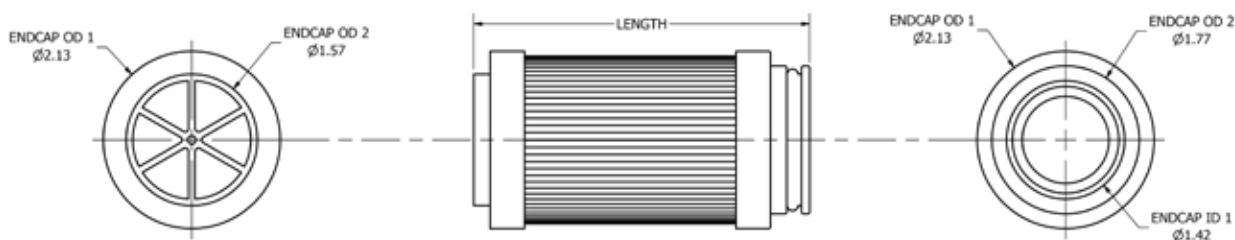
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- Collapse rating dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT219		04 = 4.76		1	74*	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna
		08 = 8.78		3	149*	SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>	V = Viton
		13 = 14.06		6		*W = Stainless Steel Wire Mesh <i>Only available in nominally rated 25, 74, 149µm</i>	
		20 = 20.75		10			
				25			

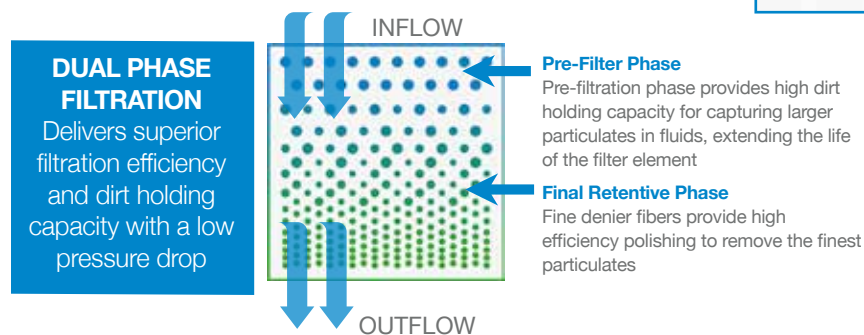
PART NUMBER EXAMPLE: TT219-04-3V = TT219 (04 length, 3 micron, viton seal type)



## TTSF219 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

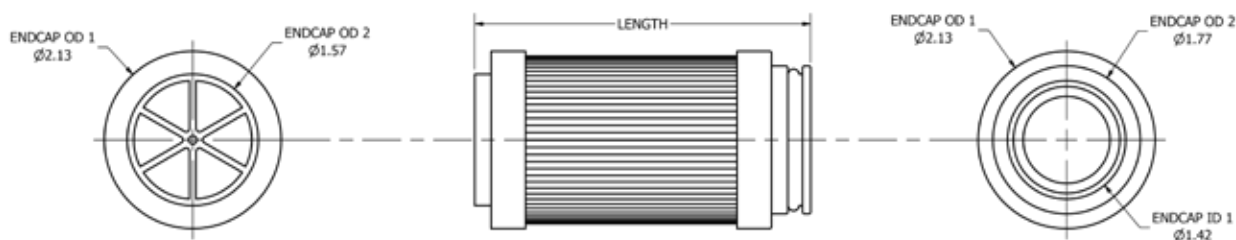
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- Collapse rating dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF219		04 = 4.76		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		08 = 8.78		3	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		13 = 14.06		6		
		20 = 20.75		10		
				25		

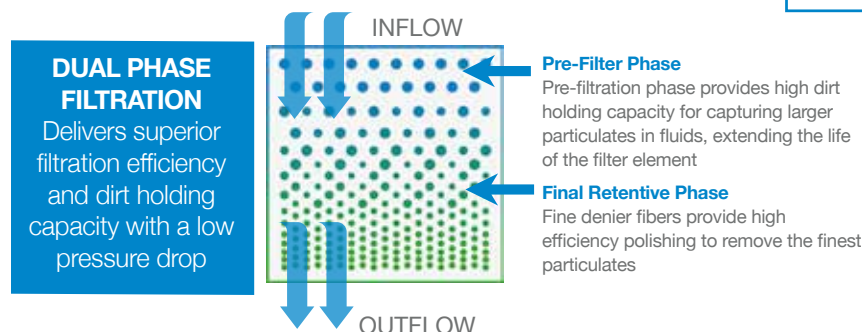
PART NUMBER EXAMPLE: TTSF219-04-3SDV = TTSF219 (04 length, 3 micron SmartFlow media, Static Dissipative media, viton seal type)



## TT300P Series

Proper filtration is crucial to removing the contaminants that reduce the life and functionality of your oils, such as the ISO grade 150 transmission oil in rock crushing systems.

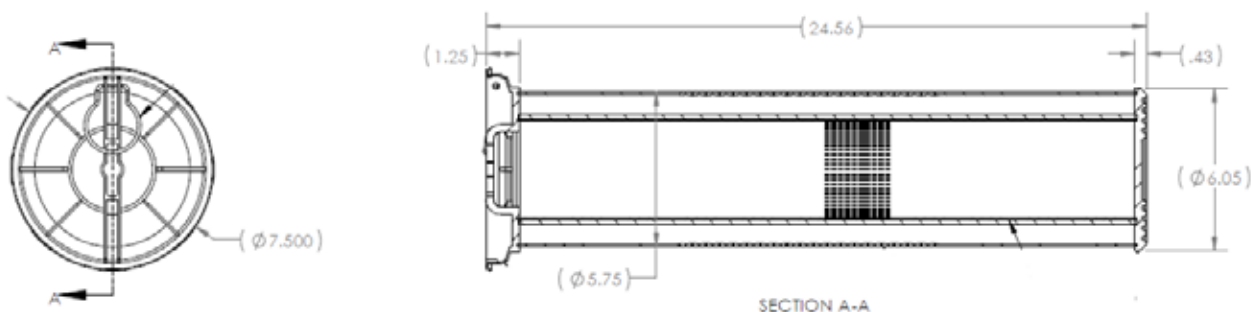
Clean transmission oil is crucial for lubricating bushings and cooling the entire system. Transmission oil operating temperature must be maintained between 100°F - 130°F.



### KEY PERFORMANCE FEATURES

- High Efficiency Retention of Particulate
- Inside to Outside Flow Path for Full Capture of Contaminant
- Special Top to Provide Intact Seal in Existing Vessels with No Bypass
- Pull Ring for Easier Removal from Vessel
- 160°F (71°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TT300P		25 = 24.56"		10	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	
				25		

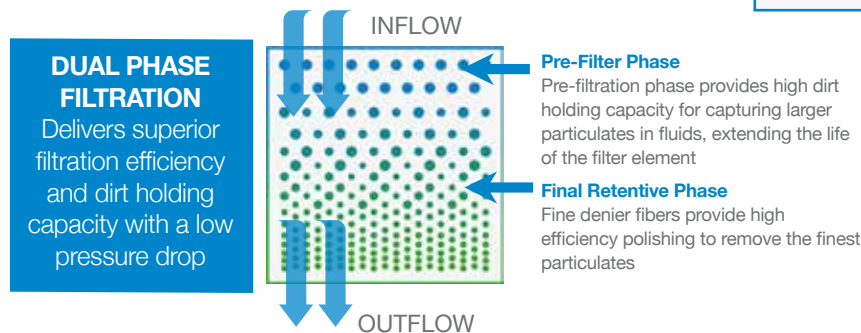
PART NUMBER EXAMPLE: TT300P-25-10V = TT300P (25 length, 10 micron, viton seal type)



## TT310 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

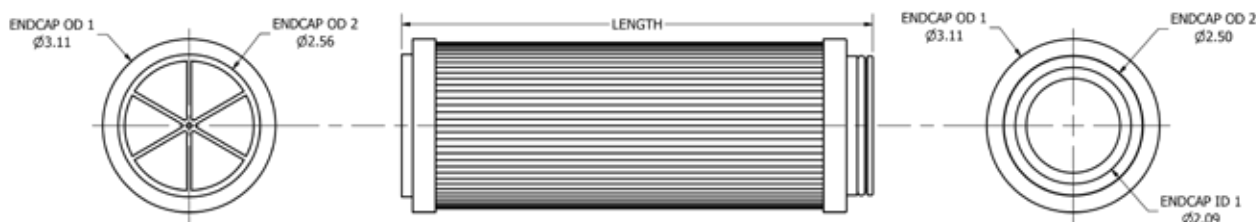
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- Collapse rating dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT310		08 = 8.74		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		13 = 14.05		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		20 = 20.75		6		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
		40 = 40.79		10			
				25			

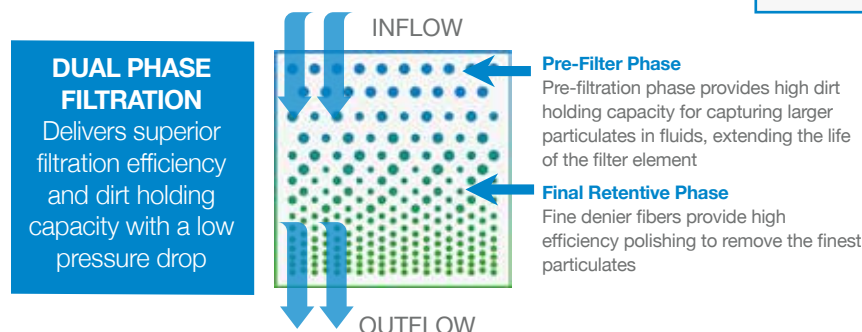
PART NUMBER EXAMPLE: TT310-04-3V = TT310 (04 length, 3 micron, viton seal type)



## TTSF310 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

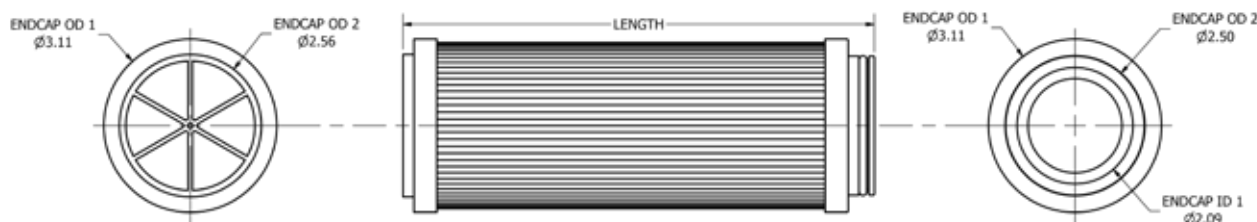
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- Collapse rating dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF310		08 = 8.74		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		13 = 14.05		3	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		20 = 20.75		6		
		40 = 40.79		10		
				25		

PART NUMBER EXAMPLE: TTSF310-04-3SDV = TTSF310 (04 length, 3 micron SmartFlow media, Static Dissipative media, viton seal type)

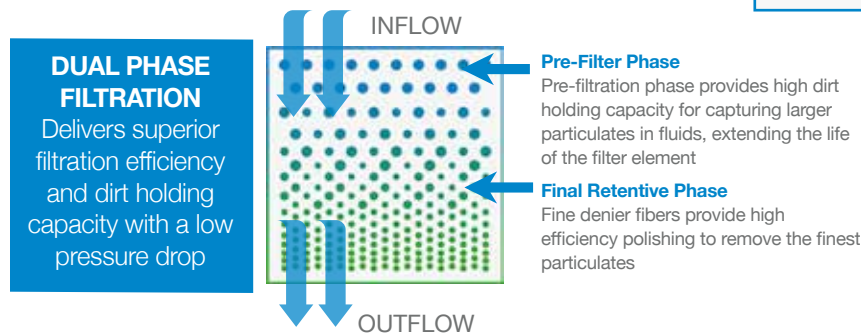




## TT319 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

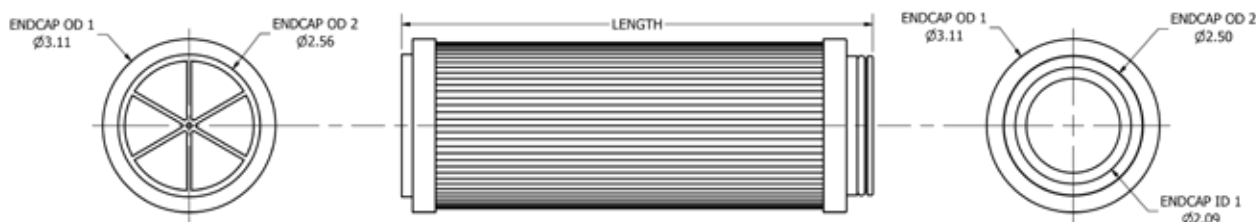
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- Collapse rating dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT319		08 = 8.74		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		13 = 14.05		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		20 = 20.75		6		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
		40 = 40.79		10			
				25			

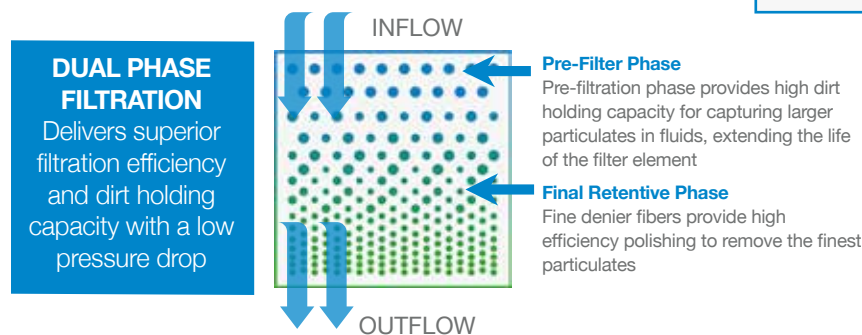
PART NUMBER EXAMPLE: TT319-04-3V = TT319 (04 length, 3 micron, viton seal type)



## TTSF319 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

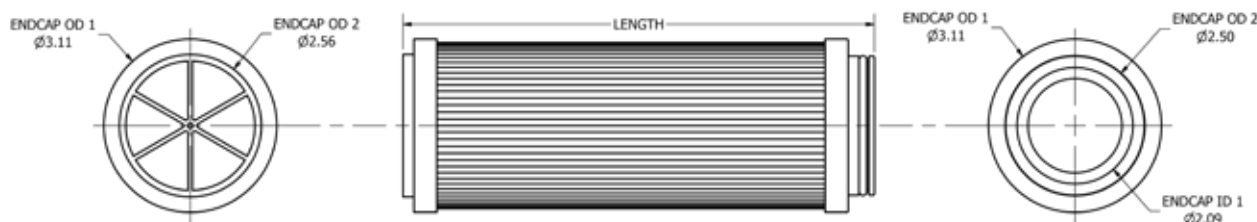
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- Collapse rating dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF319		08 = 8.74		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		13 = 14.05		3	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		20 = 20.75		6		
		40 = 40.79		10		
				25		

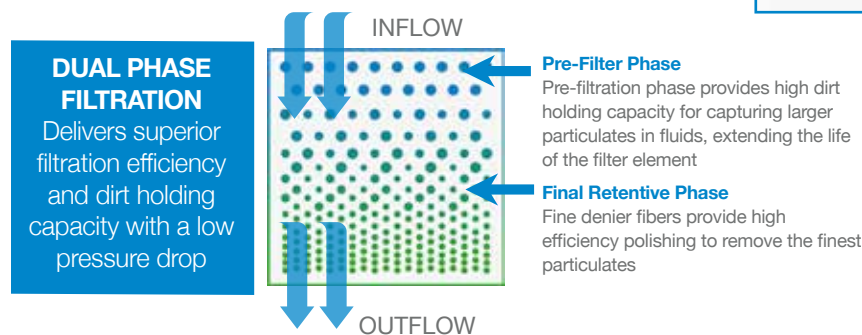
PART NUMBER EXAMPLE: TTSF319-04-3SDV = TTSF319 (04 length, 3 micron SmartFlow media, Static Dissipative media, viton seal type)



## TT610 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

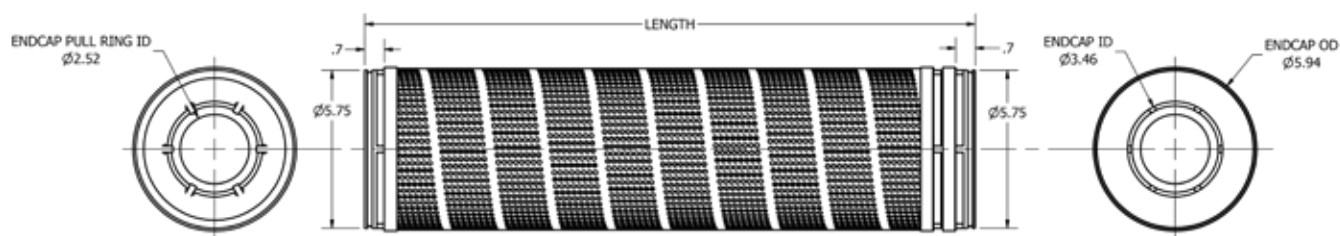
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- Collapse rating dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT610		20 = 21.50		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		40 = 41.53		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				10			
				25			

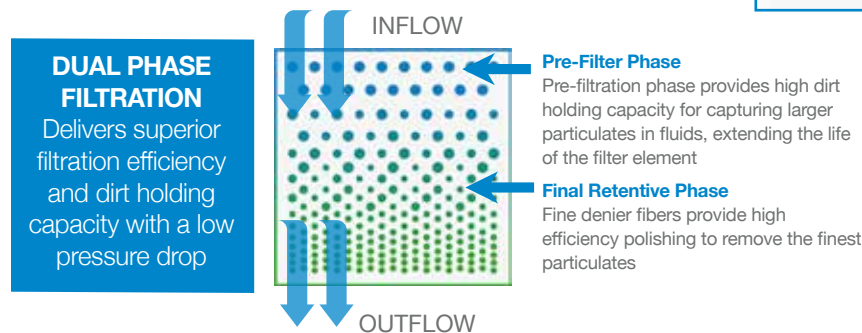
PART NUMBER EXAMPLE: TT610-20-3V = TT610 (20 length, 3 micron, viton seal type)



## TTSF610 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

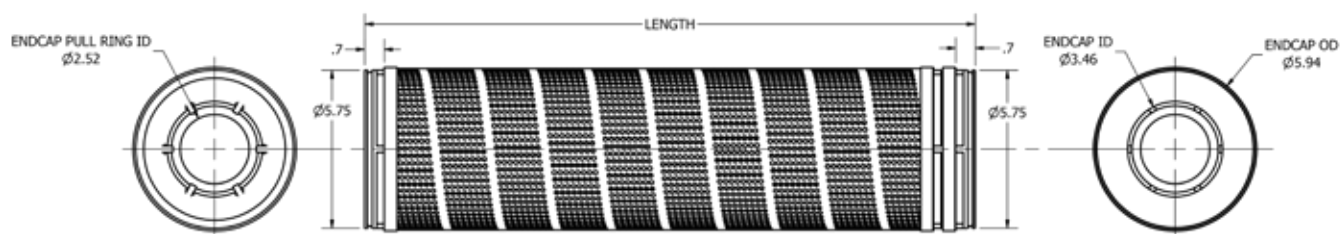
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- Collapse rating dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF610		20 = 21.50		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		40 = 41.53		3	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				6		
				10		
				25		

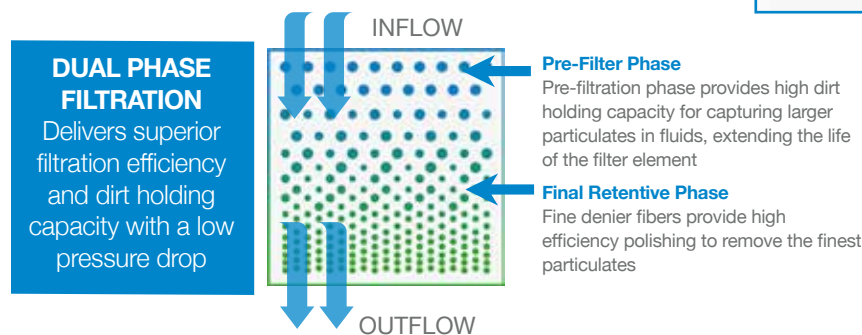
PART NUMBER EXAMPLE: TTSF610-20-3SDV = TTSF610 (20 length, 3 micron SmartFlow media, Static Dissipative media, viton seal type)



## TT619 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

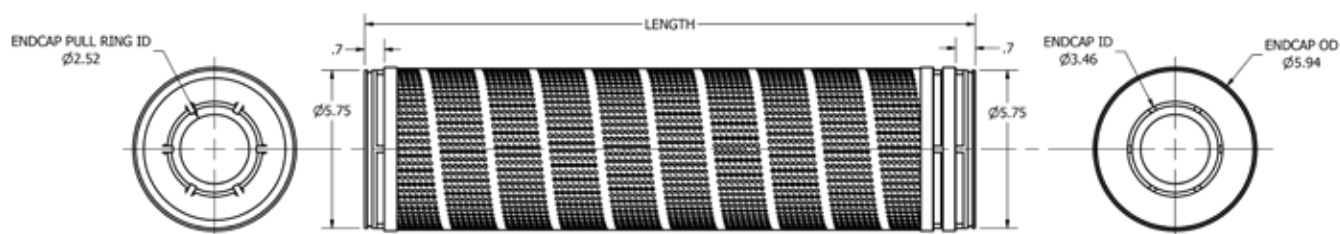
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- Collapse rating dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT619		20 = 21.50		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		40 = 41.53		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				6		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				10			
				25			

PART NUMBER EXAMPLE: TT619-20-3V = TT619 (20 length, 3 micron, viton seal type)

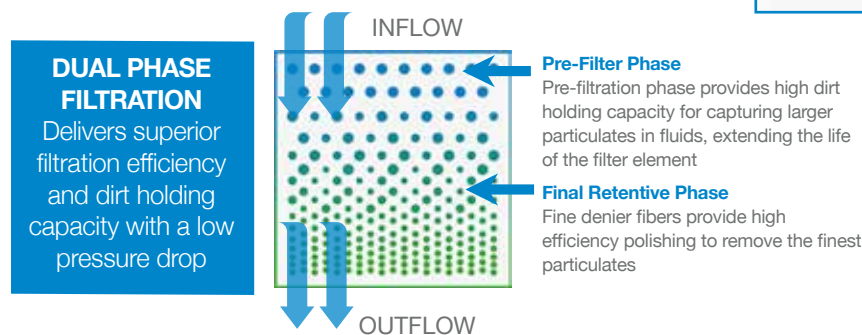




## TTSF619 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

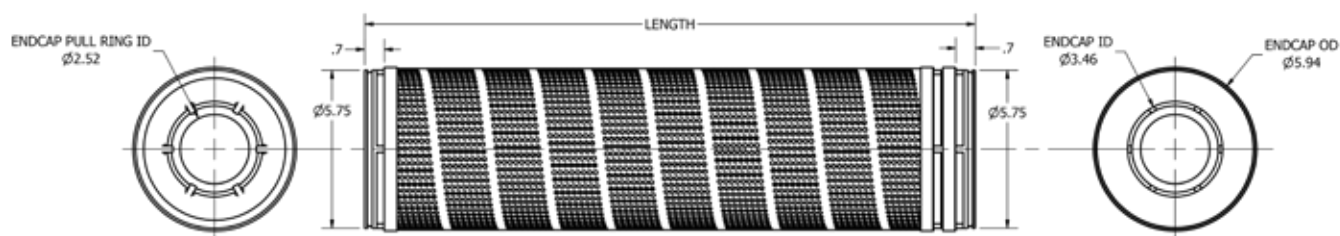
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- Collapse rating dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF619		20 = 21.50		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		40 = 41.53		3	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				6		
				10		
				25		

PART NUMBER EXAMPLE: TTSF619-20-3SDV = TTSF619 (20 length, 3 micron SmartFlow media, Static Dissipative media, viton seal type)

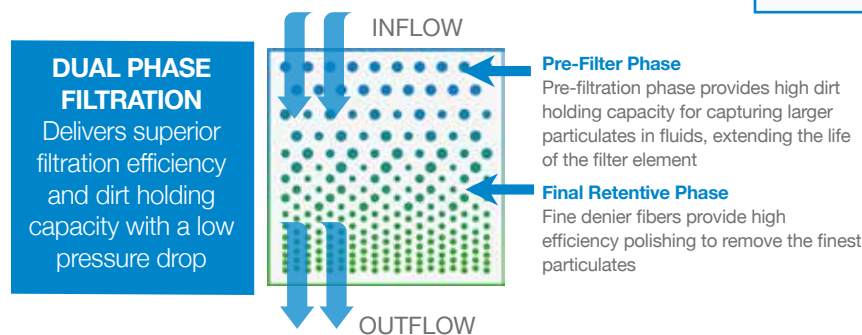




## TT626 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

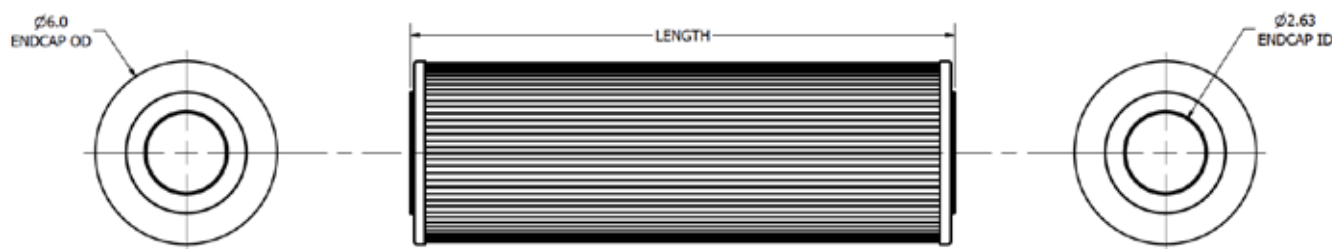
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT626		16 = 16.0		1	40	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		18 = 18.0		3	74*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		34 = 34.0		6	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		36 = 36.0		10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

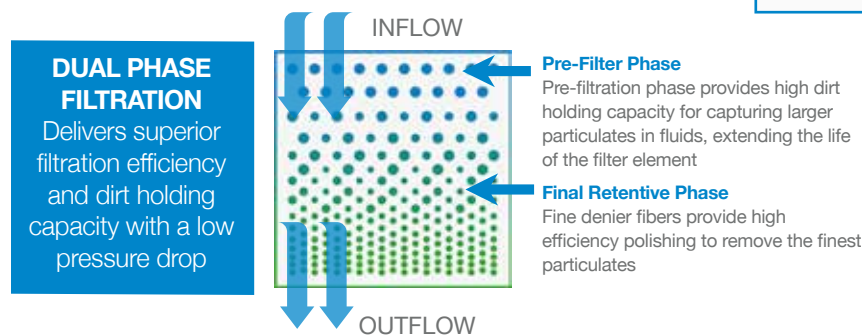
PART NUMBER EXAMPLE: TT626-18-3V = TT626 (18 length, 3 micron, viton seal type)



## TTSF626 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

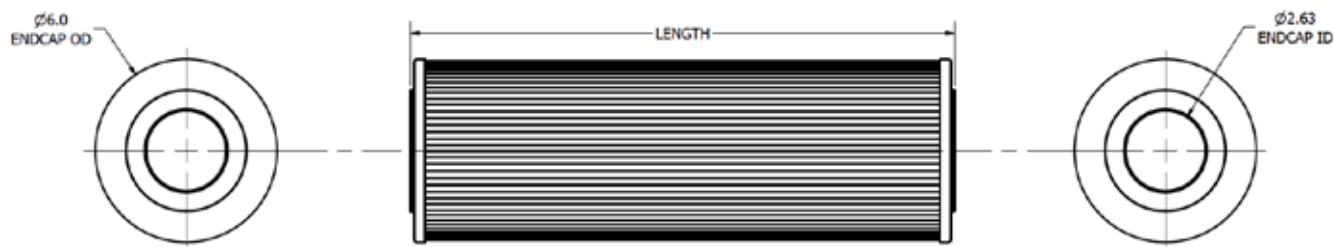
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF626		16 = 16.0		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		18 = 18.0		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		34 = 34.0		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		36 = 36.0		10		
				25		

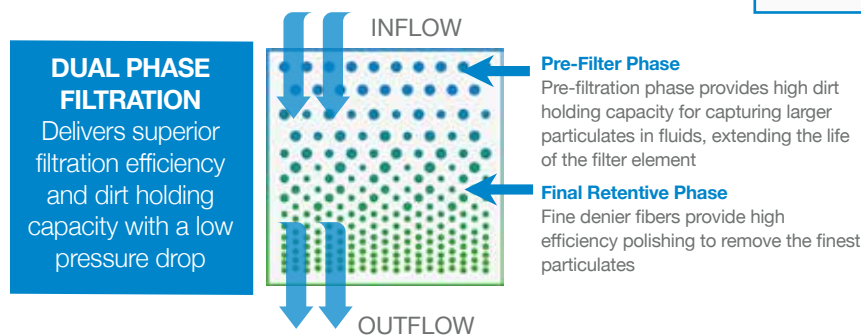
PART NUMBER EXAMPLE: TTSF626-18-3V = TTSF626 (18 length, 3 micron SmartFlow media, viton seal type)



## TT626XL Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

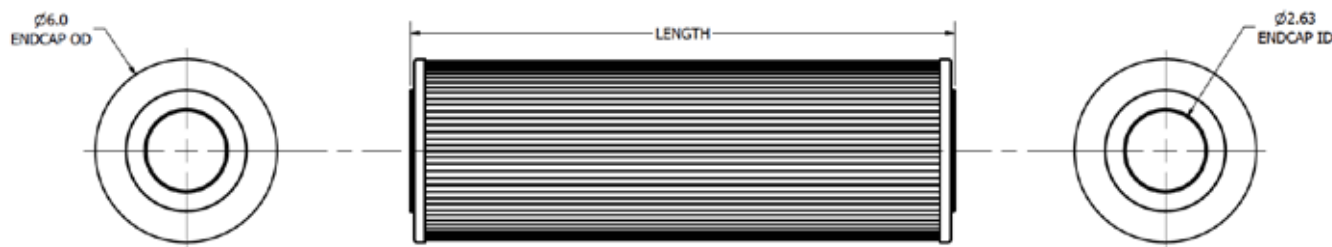
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT626XL		16 = 16.0		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		18 = 18.0		3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		34 = 34.0		6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		36 = 36.0		10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

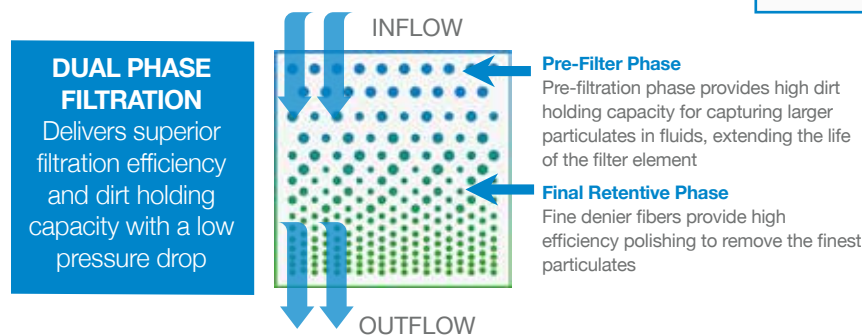
PART NUMBER EXAMPLE: TT626XL-16-3V = TT626XL (16 length, 3 micron, viton seal type)



## TTSF626XL Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

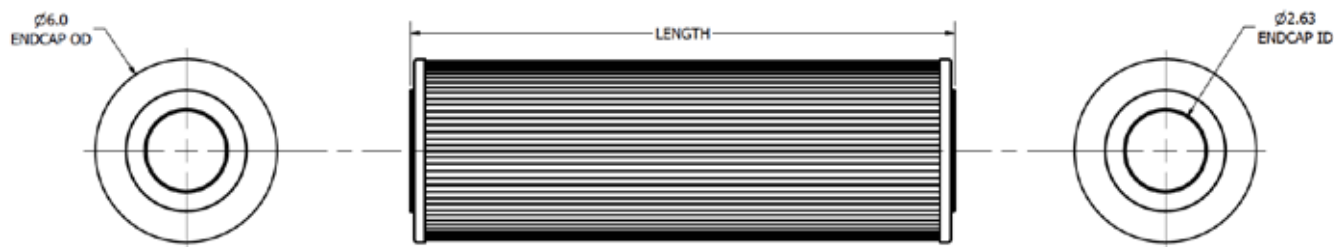
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF626XL		16 = 16.0		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		18 = 18.0		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		34 = 34.0		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		36 = 36.0		10		
				25		

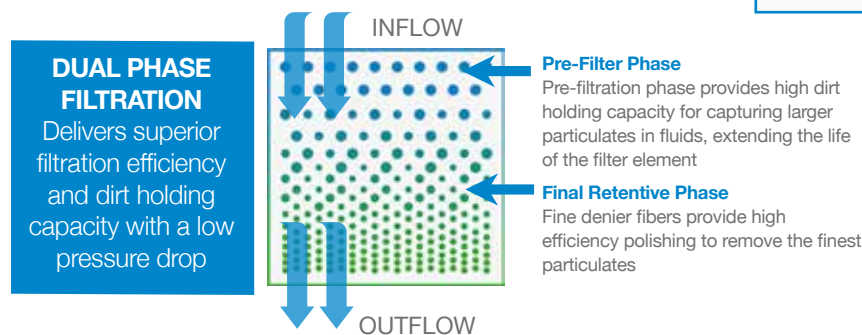
PART NUMBER EXAMPLE: TTSF626XL-16-3V = TTSF626XL (16 length, 3 micron SmartFlow media, viton seal type)



## TT632 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

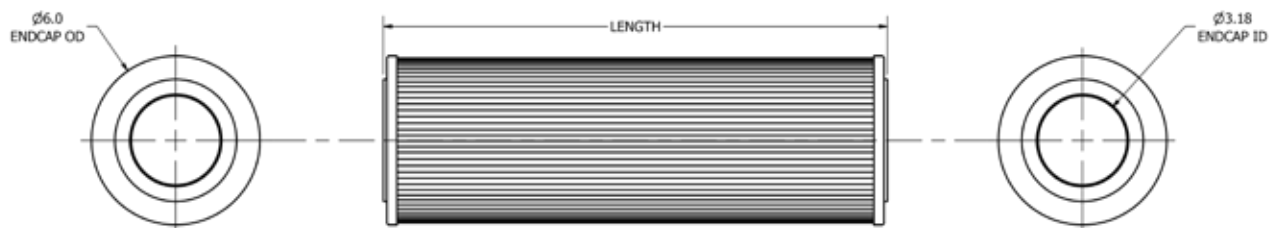
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT632		16 = 16.0		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		18 = 18.0		3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		34 = 34.0		6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		36 = 36.0		10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

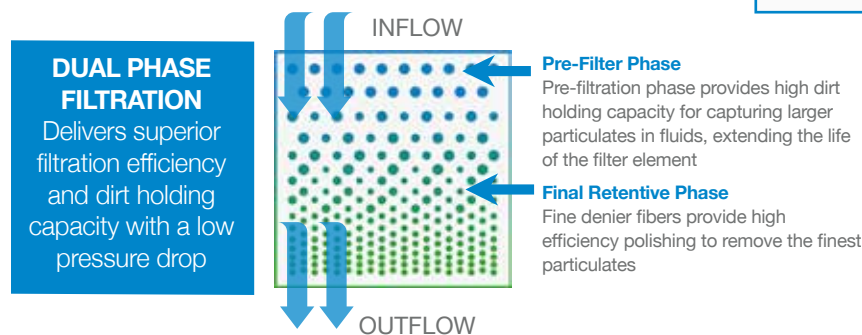
PART NUMBER EXAMPLE: TT632-16-3V = TT632 (16 length, 3 micron, viton seal type)



## TTSF632 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF632		16 = 16.0		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		18 = 18.0		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		34 = 34.0		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		36 = 36.0		10		
				25		

PART NUMBER EXAMPLE: TTSF632-16-3V = TTSF632 (16 length, 3 micron SmartFlow media, viton seal type)

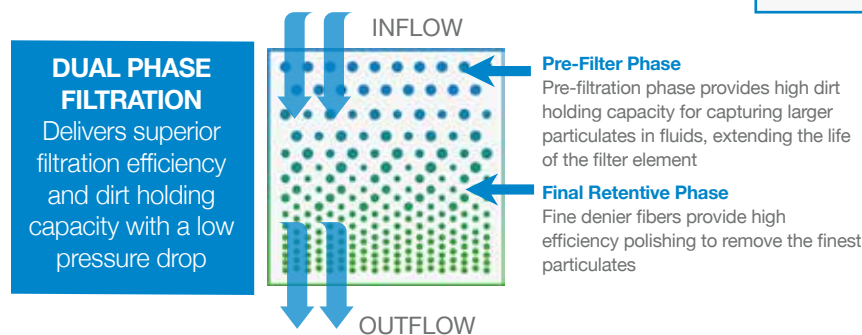




## TT831P Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

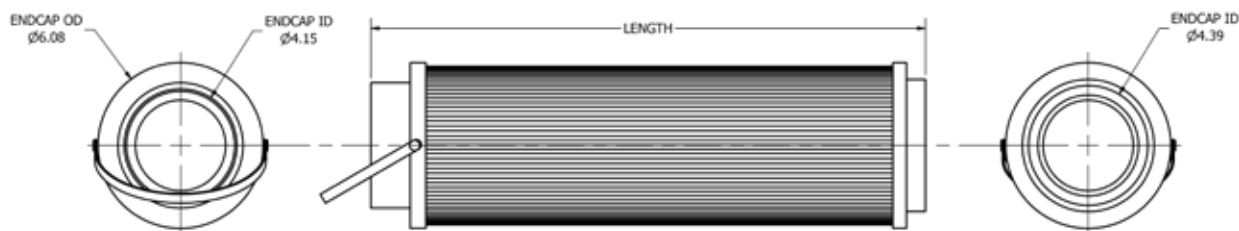
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- Collapse rating dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT831P		39 = 37.03		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
				3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
				6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

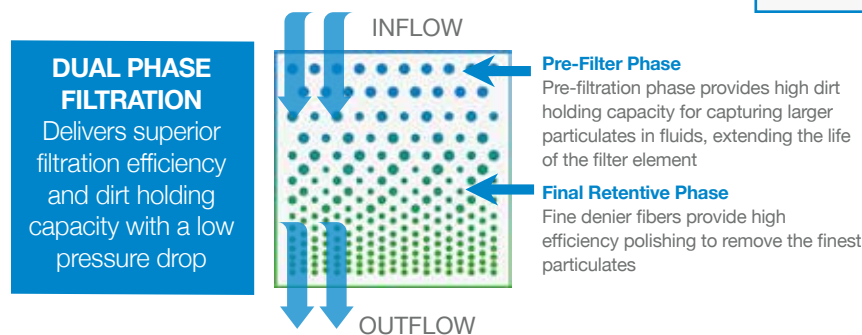
PART NUMBER EXAMPLE: TT831P-39-3V = TT831P (39 length, 3 micron, viton seal type)



## TTSF831P Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- Collapse rating dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF831P		39 = 37.03		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
				3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
				6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		
				25		

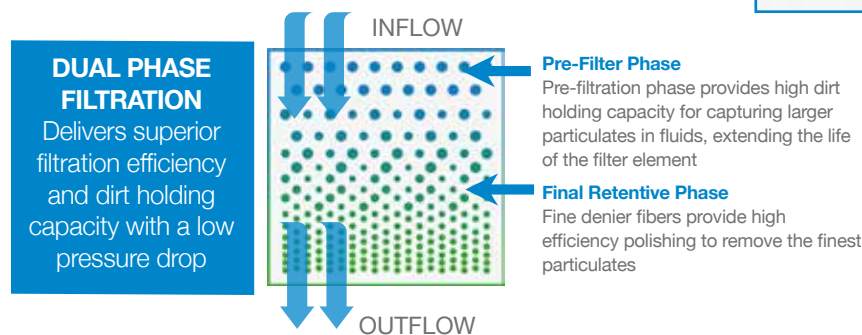
PART NUMBER EXAMPLE: TTSF831P-39-3V = TTSF831P (39 length, 3 micron SmartFlow media, viton seal type)



## TT1018 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

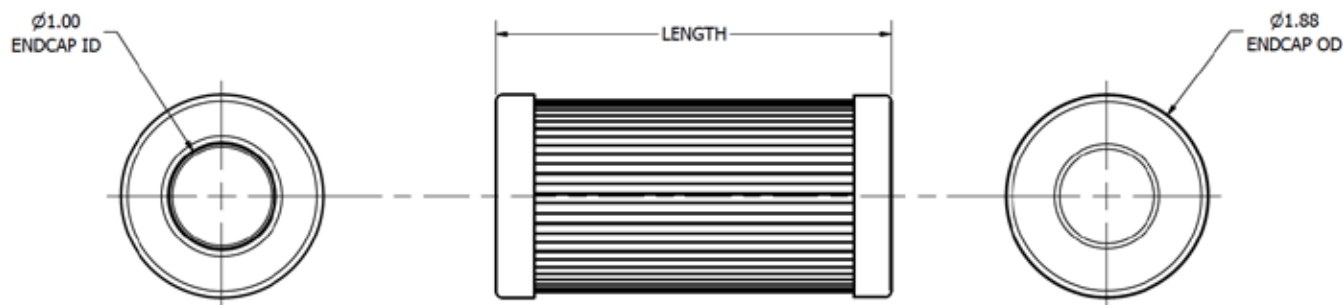
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 290 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type
TT1018		15 = 3.68		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>
		20 = 6.73		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>
		30 = 9.73		6		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>
				10		
				25		

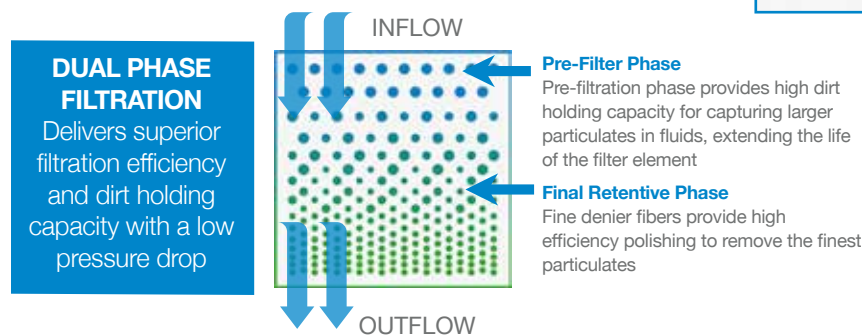
PART NUMBER EXAMPLE: TT1018-3-3 = TT1018 (3.68 length, 3 micron)



## TTSF1018 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

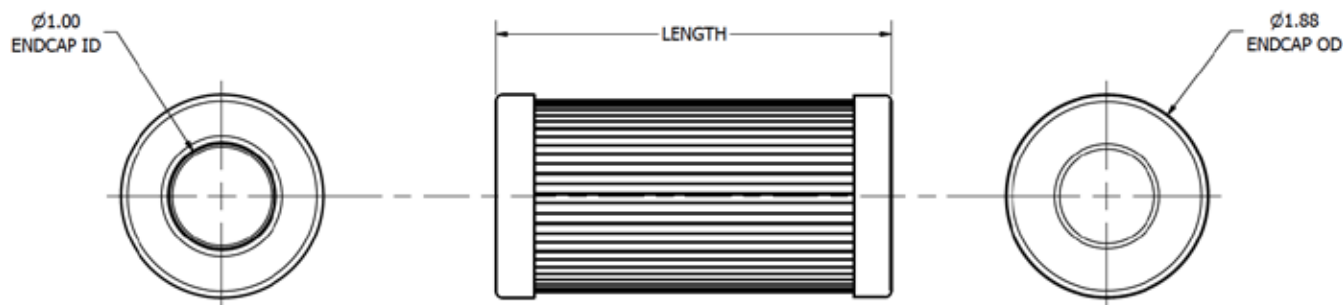
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### PERFORMANCE

- 290 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type
TTSF1018		15 = 3.68		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>
		20 = 6.73		3	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>
		30 = 9.73		6	
				10	
				25	

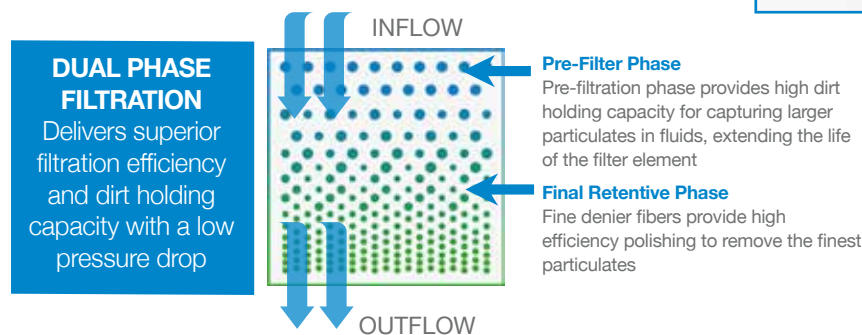
PART NUMBER EXAMPLE: TTSF1018-3-3 = TTSF1018 (3.68 length, 3 micron SmartFlow media)



## TT1833 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

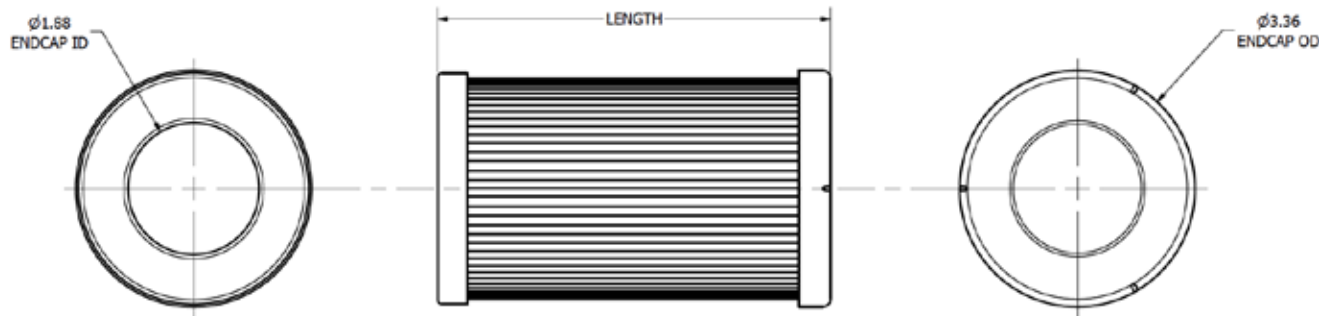
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 290 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type
TT1833		40 = 5.60		1	40*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>
		80 = 10.10		3	74*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>
		120 = 14.68		6	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>
		160 = 20.10		10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 40, 74, 149µm 40µm available in - 80 length only</small>
				25		

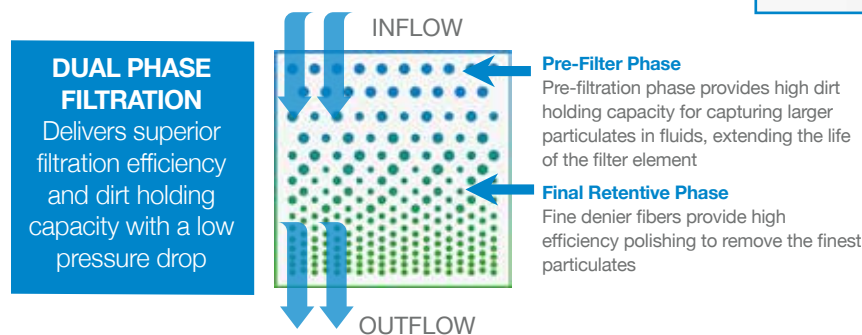
PART NUMBER EXAMPLE: TT1833-40-3 = TT1833 (5.60 length, 3 micron)



## TTSF1833 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

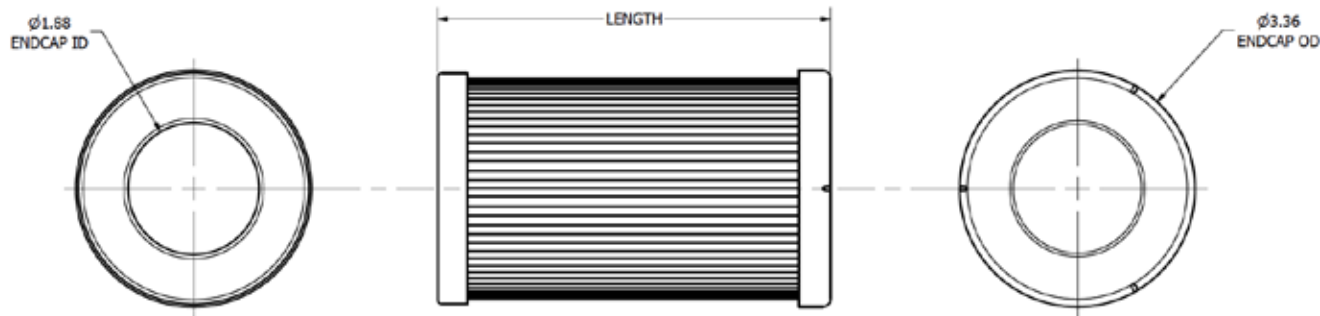
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 290 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type
TTSF1833		40 = 5.60		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>
		80 = 10.10		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>
		120 = 14.68		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>
		160 = 20.10		10	
				25	

PART NUMBER EXAMPLE: TTSF1833-40-3 = TTSF1833 (5.60 length, 3 micron SmartFlow media)

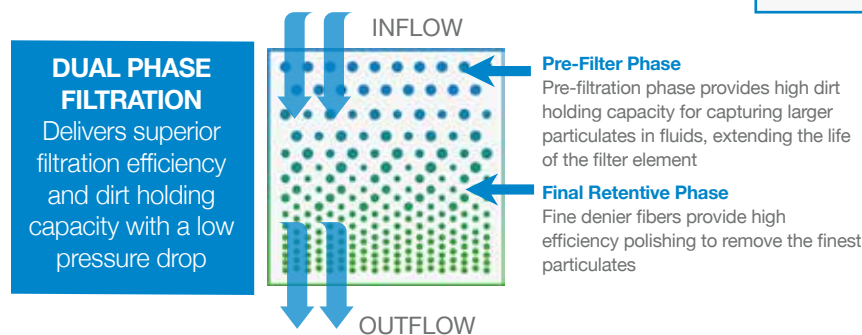




## TT1833HC Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

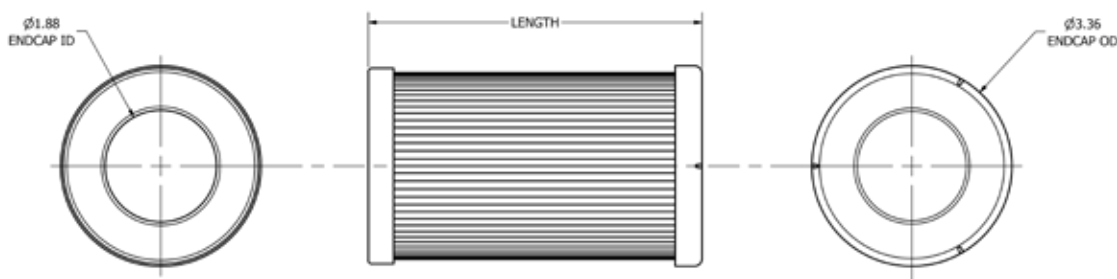
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type
TT1833HC		40 = 5.60		1	40*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>
		80 = 10.10		3	74*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>
		120 = 14.68		6	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>
		160 = 20.10		10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 40, 74, 149µm 40µm available in - 80 length only</small>
				25		

PART NUMBER EXAMPLE: TT1833HC-40-3 = TT1833HC (5.60 length, 3 micron)



## TTSF1833HC Series

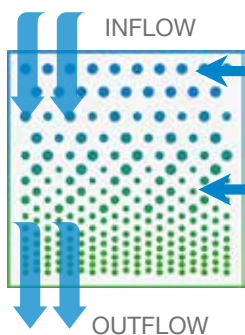
TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### DUAL PHASE FILTRATION

Delivers superior filtration efficiency and dirt holding capacity with a low pressure drop



#### Pre-Filter Phase

Pre-filtration phase provides high dirt holding capacity for capturing larger particulates in fluids, extending the life of the filter element

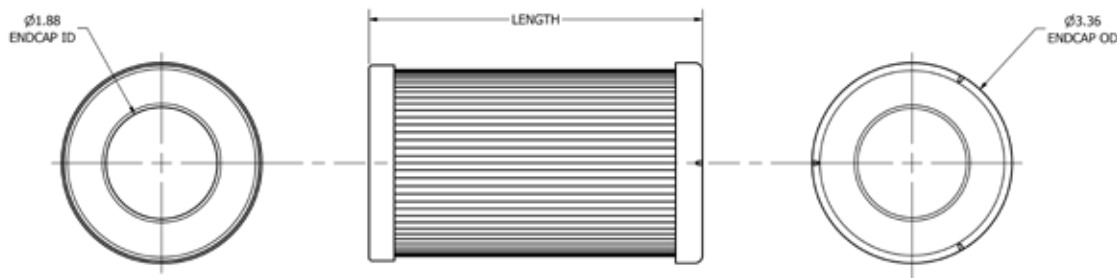
#### Final Retentive Phase

Fine denier fibers provide high efficiency polishing to remove the finest particulates

### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type
TTSF1833HC		40 = 5.60		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>
		80 = 10.10		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>
		120 = 14.68		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>
		160 = 20.10		10	
				25	

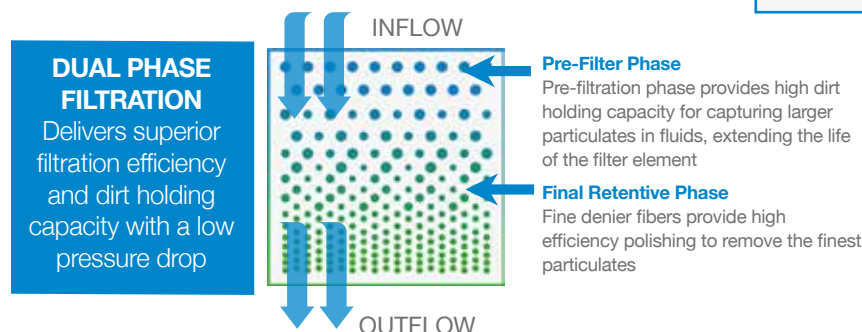
PART NUMBER EXAMPLE: TTSF1833HC-40-3V = TTSF1833HC (5.60 length, 3 micron SmartFlow media, viton seal type)



## TT1833D Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

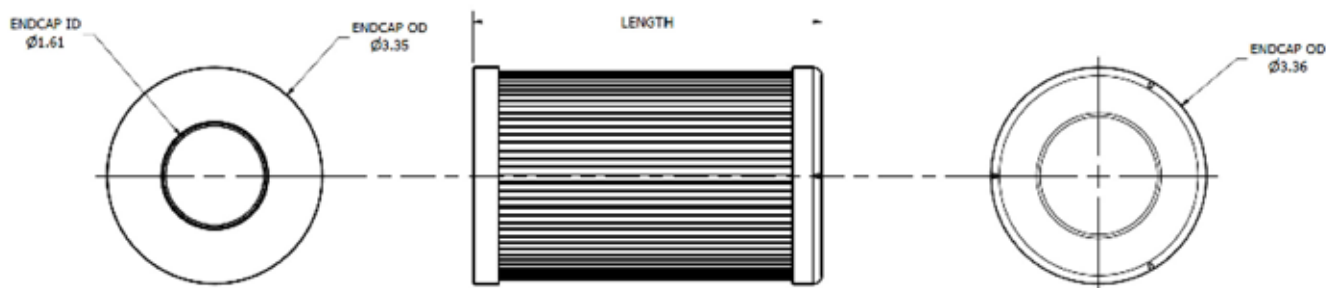
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 450 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT1833D		40 = 5.42		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		70 = 9.96		3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		100 = 15.75		6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

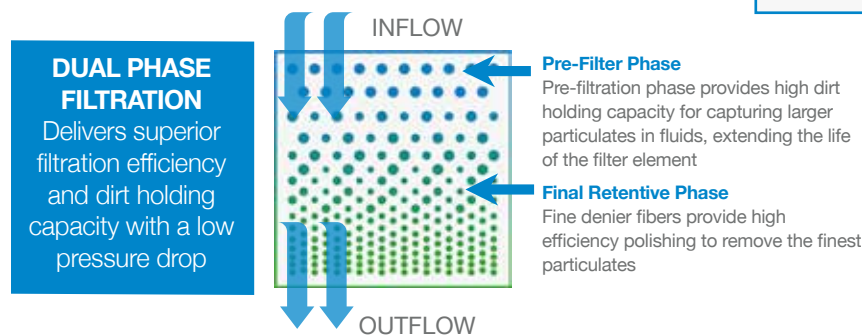
PART NUMBER EXAMPLE: TT1833D-40-3V = TT1833D (5.42 length, 3 micron, viton seal type)



## TTSF1833D Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

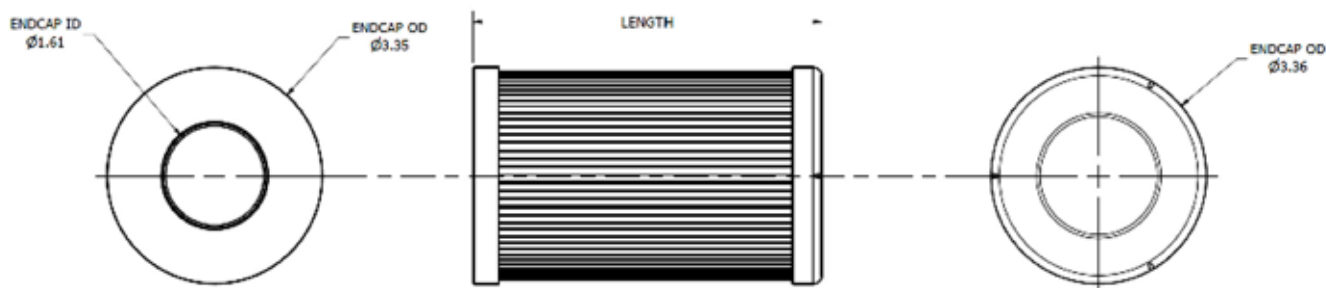
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 450 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF1833D		40 = 5.42		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		70 = 9.96		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		100 = 15.75		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		
				25		

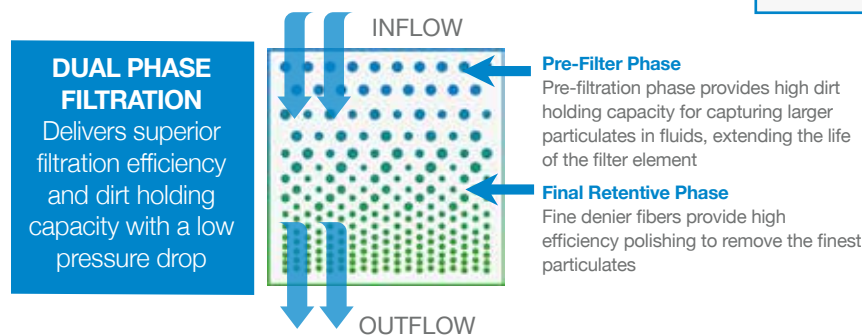
PART NUMBER EXAMPLE: TTSF1833D-40-3V = TTSF1833D (5.42 length, 3 micron SmartFlow media, viton seal type)



## TT1833DHC Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 450 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT1833DHC		50 = 5.42		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		70 = 9.96		3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		100 = 15.75		6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

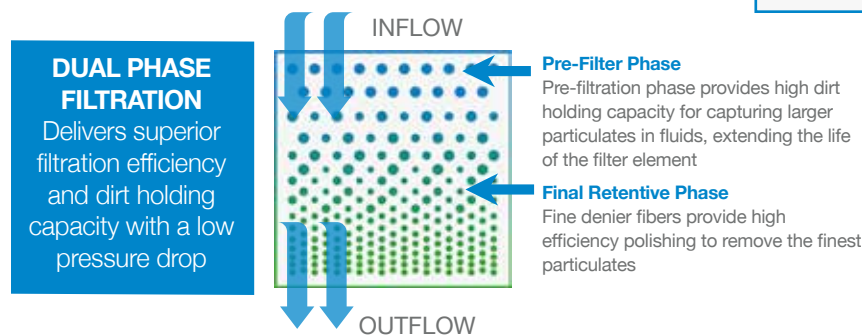
PART NUMBER EXAMPLE: TT1833DHC-50-3V = TT1833DHC (5.42 length, 3 micron, viton seal type)



## TTSF1833DHC Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 450 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF1833DHC		50 = 5.42		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		70 = 9.96		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		100 = 15.75		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		
				25		

PART NUMBER EXAMPLE: TTSF1833DHC-50-3V = TTSF1833DHC (5.42 length, 3 micron SmartFlow media, viton seal type)





## TT2727 Series

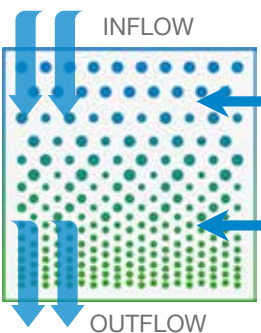
TTI's PowerGuard™ filter line is produced in the USA and leverages our proprietary DuoGlass Dual Phase Microglass media to provide world-class filtration performance.

DuoGlass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to extend your filter life and reduce initial pressure drops.



### DUAL PHASE FILTRATION

Delivers superior filtration efficiency and dirt holding capacity with a low pressure drop



#### Pre-Filter Phase

Pre-filtration phase provides high dirt holding capacity for capturing larger particulates in fluids, extending the life of the filter element

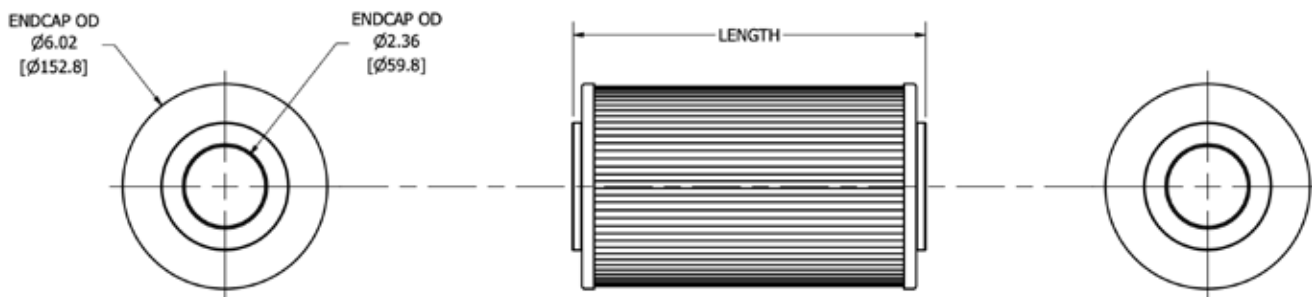
#### Final Retentive Phase

Fine denier fibers provide high efficiency polishing to remove the finest particulates

### PERFORMANCE

- Built with Proprietary DuoGlass Media
- Insoluble Removal <1µm β1000 Available
- 150 PSI Collapse Rating
- 250°F (121°C) Maximum Operating Temperature

### Dimensions



TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TT2727		11 = 10.38"		1	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	V = Viton
		21 = 20.64"		3	IR = Insoluble Removal <i>&lt;1µm β1000, omit micron rating</i>	
		32 = 31.14"		6		
		43 = 41.27"		10		
				25		

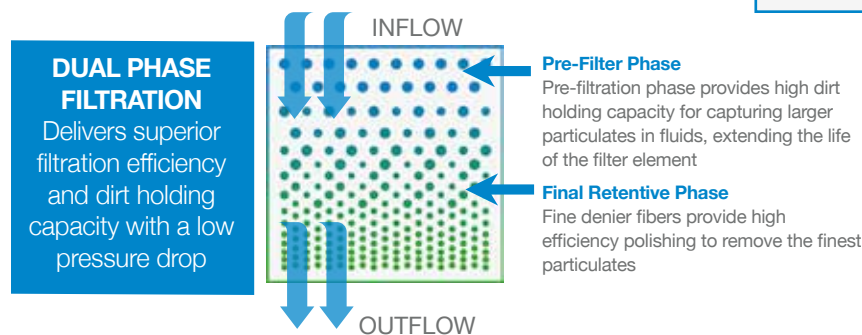
PART NUMBER EXAMPLE: TT2727-11-IRV = TT2727 (11 length, insoluble removal media, viton seal type)



## TT8300 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

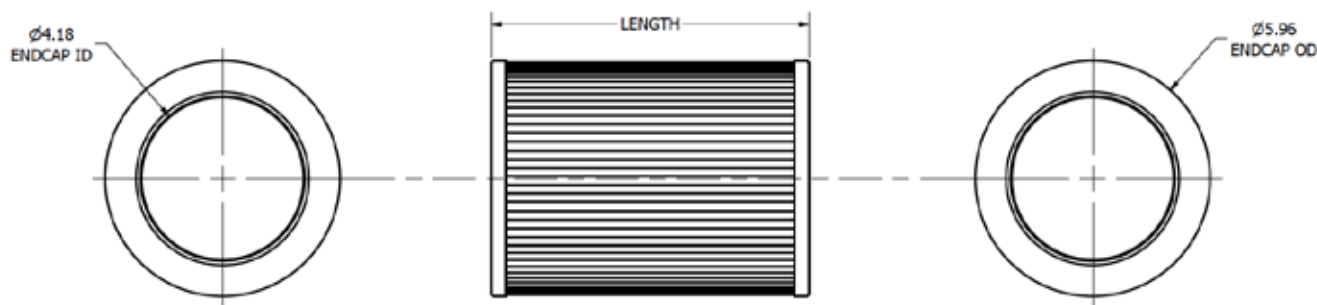
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT8300		8 = 8.07		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		16 = 16.79		3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		39 = 38.55		6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

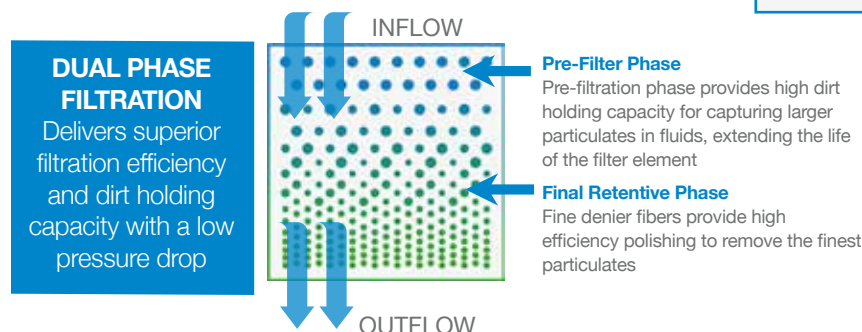
PART NUMBER EXAMPLE: TT8300-8-3V = TT8300 (8.07 length, 3 micron, viton seal type)



## TTSF8300 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

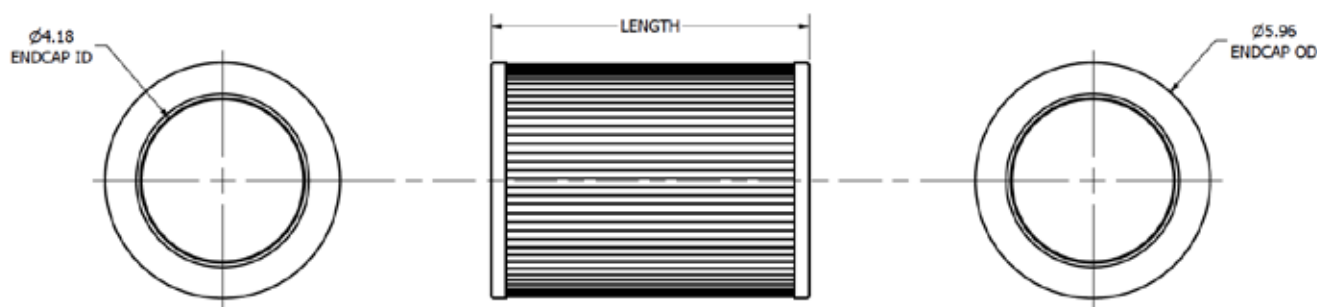
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF8300		8 = 8.07		1	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna
		16 = 16.79		3	WA = Water Absorptive <i>Available in 3, 6, 10, 25µm</i>	V = Viton
		39 = 38.55		6	SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>	
				10		
				25		

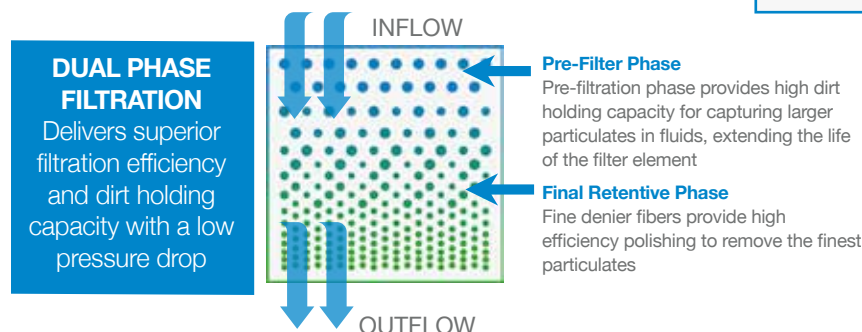
PART NUMBER EXAMPLE: TTSF8300-8-3V = TTSF8300 (8.07 length, 3 micron SmartFlow media, viton seal type)



## TT8310 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

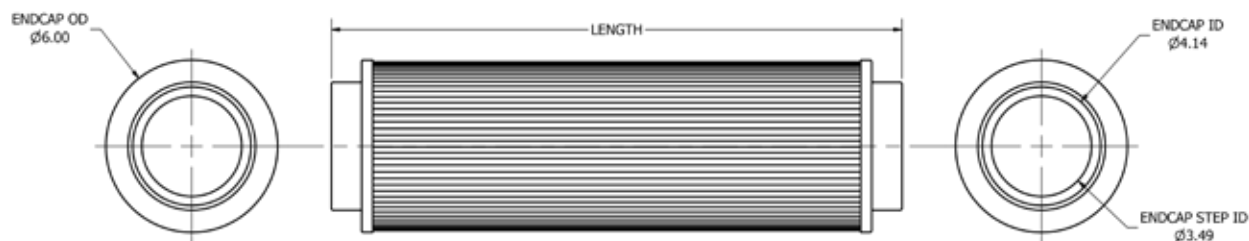
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT8310		16 = 16.05		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		39 = 37.92		3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
				6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

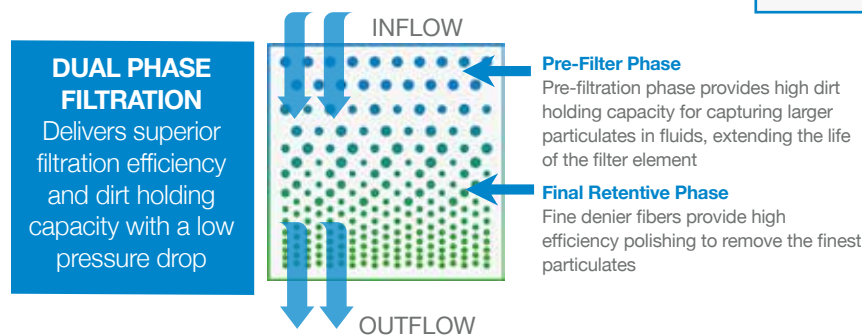
PART NUMBER EXAMPLE: TT8310-16-3V = TT8310 (16 length, 3 micron, viton seal type)



## TTSF8310 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

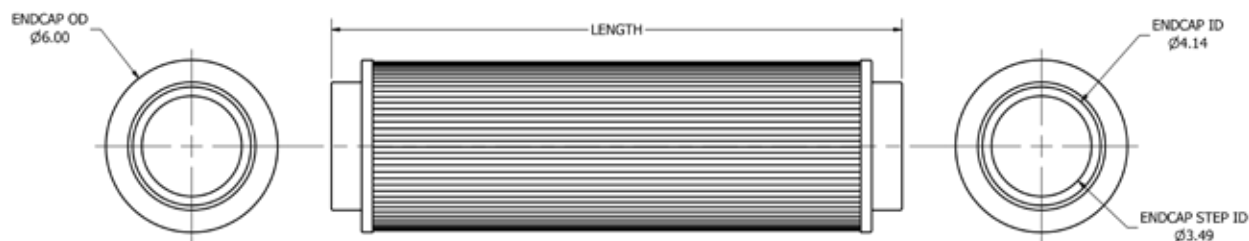
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating ( $\mu\text{m}$ )	Media Type	Seal Type
TTSF8310		16 = 16.05		1	(Omit) = Dual Phase Microglass <i>Standard option <math>\beta 1000</math>, available in 1, 3, 6, 10, 25<math>\mu\text{m}</math></i>	B = Buna
		39 = 37.92		3	WA = Water Absorptive <i>Available in 3, 6, 10, 25<math>\mu\text{m}</math></i>	V = Viton
				6	SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25<math>\mu\text{m}</math></i>	
				10		
				25		

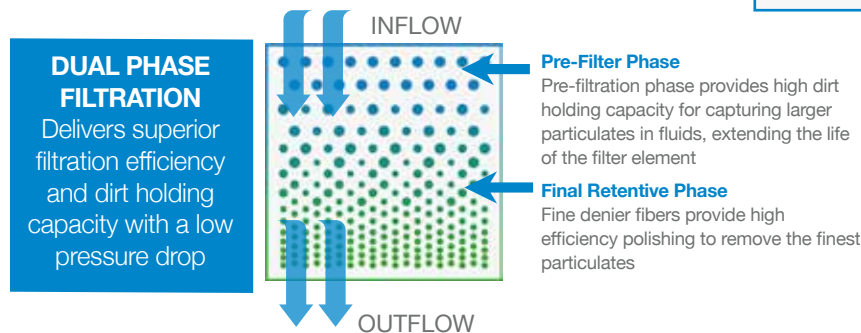
PART NUMBER EXAMPLE: TTSF8310-16-3V = TTSF8310 (16 length, 3 micron SmartFlow media, viton seal type)



## TT8314 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

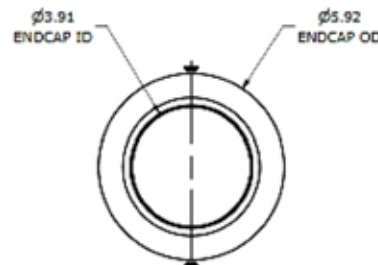
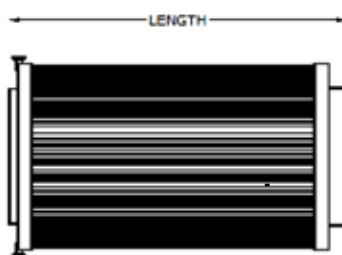
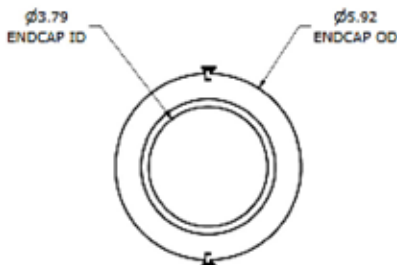
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- Dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)		-	Micron Rating (µm)		Media Type	Seal Type
TT8314		8 = 9.75	39 = 36.43		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		13 = 10.75			3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		16 = 14.63			6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		20 = 20.43			10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
		26 = 23.50			25			

PART NUMBER EXAMPLE: TT8314-8-3V = TT8314 (9.75 length, 3 micron, viton seal type)

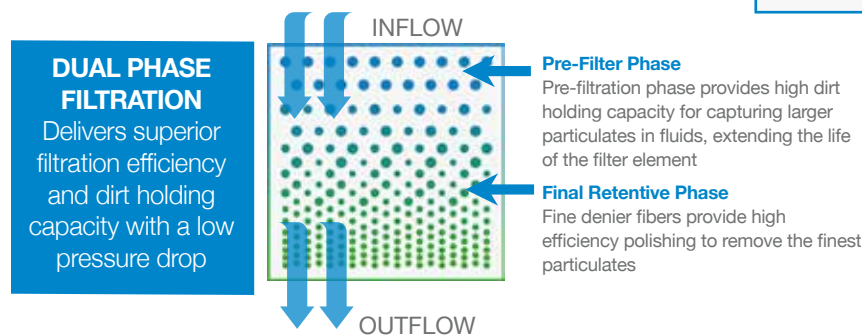




## TTSF8314 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

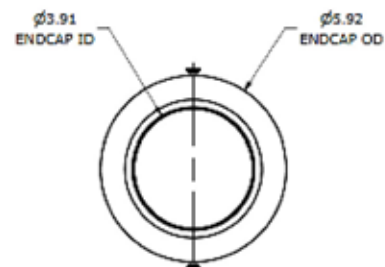
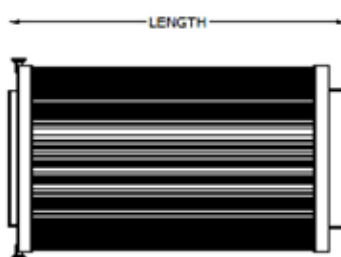
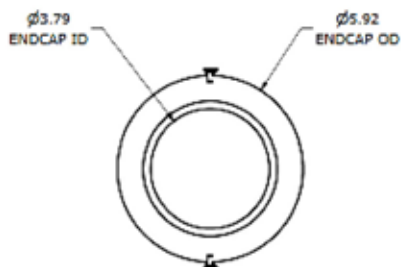
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- Dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)		-	Micron Rating (µm)	Media Type	Seal Type
TTSF8314		8 = 9.75	39 = 36.43		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		13 = 10.75			3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		16 = 14.63			6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		20 = 20.43			10		
		26 = 23.50			25		

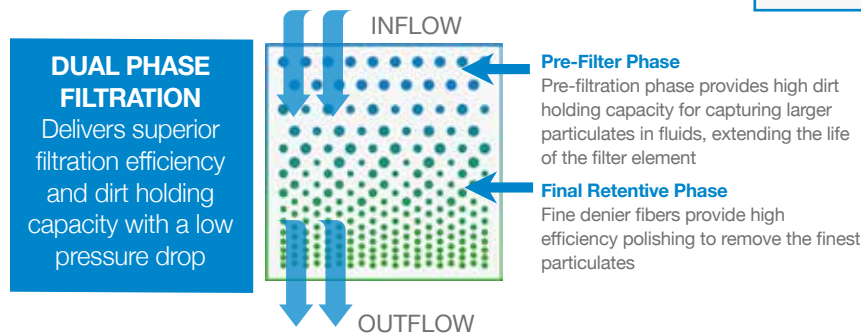
PART NUMBER EXAMPLE: TTSF8314-8-3V = TTSF8314 (9.75 length, 3 micron SmartFlow media, viton seal type)



## TT8900 Series

TTI's PowerGuard™ Microglass leverages our proprietary DuoGlass media and world-class production capabilities to provide superior filtration performance and longer service life than competing products.

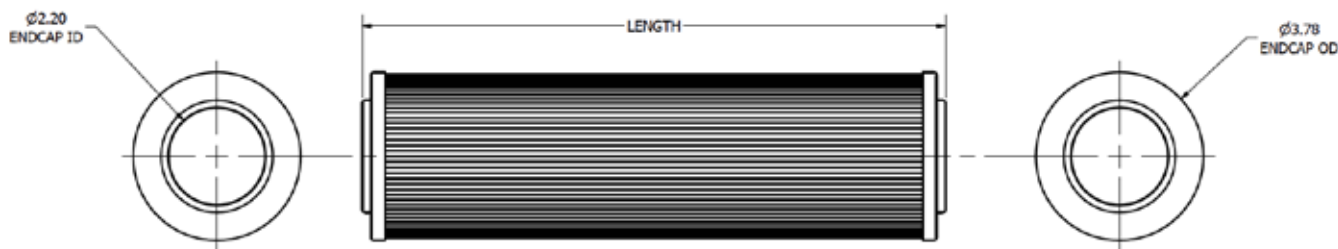
Manufactured in the USA and Germany, our Dual Phase Microglass provides Beta 1000s Beta 1000 efficiency with a built-in pre-filter layer to increase initial pressure capacity and extend the life pressure drops.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type	-	Spring
TT8900		8 = 8.22		1 40	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna		Omit <small>No Spring</small>
		13 = 12.90		3 74*	(Omit) = Single Phase Microglass <small>Standard option β1000, available in 40µm</small>	V = Viton		SP <small>With Spring</small>
		16 = 16.76		6 149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>			
		26 = 25.70		10	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>			
		39 = 38.70		25	*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>			

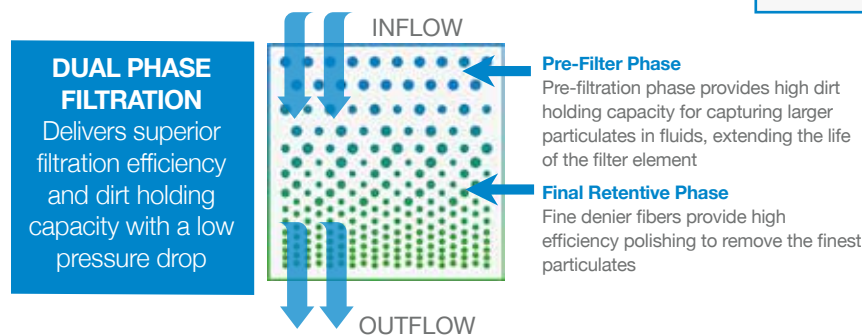
PART NUMBER EXAMPLE: TT8900-13-3V = TT8900 (12.90 length, 3 micron, viton seal type)



## TTSF8900 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

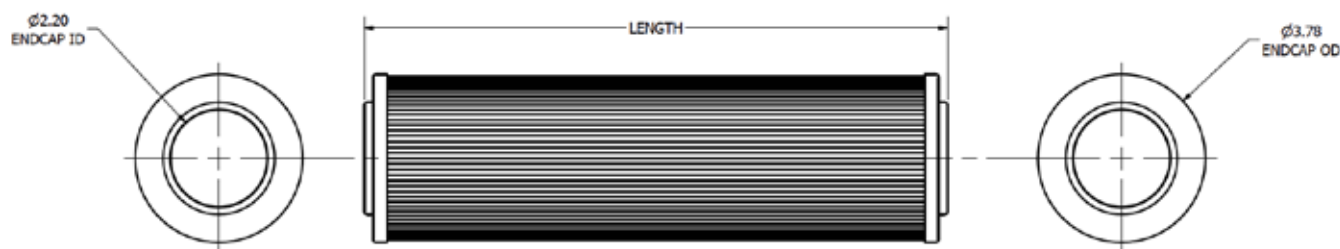
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type	-	Spring
TTSF8900		8 = 8.22		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna		Omit <small>No Spring</small>
		13 = 12.90		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton		SP <small>With Spring</small>
		16 = 16.76		5	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>			
		26 = 25.70		10				
		39 = 38.70		25				

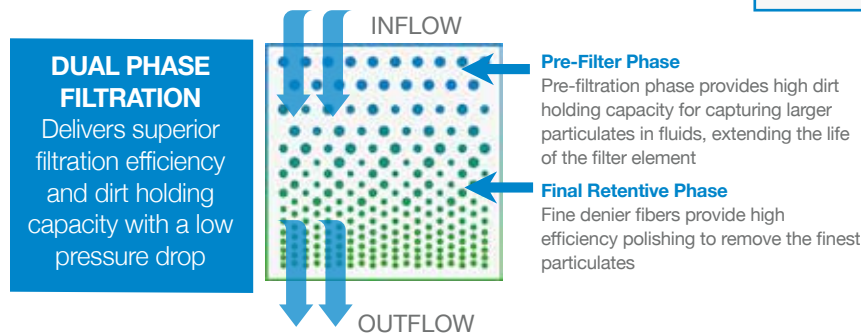
PART NUMBER EXAMPLE: TTSF8900-13-3V = TTSF8900 (12.90 length, 3 micron SmartFlow media, viton seal type)



## TT8914 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- Dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)		-	Micron Rating (µm)		Media Type	Seal Type
TT8914		8 = 7.62	39 = 38.13		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		13 = 12.42			3	149*	*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	V = Viton
		14 = 13.75			6			
		16 = 16.32			10			
		26 = 25			25			

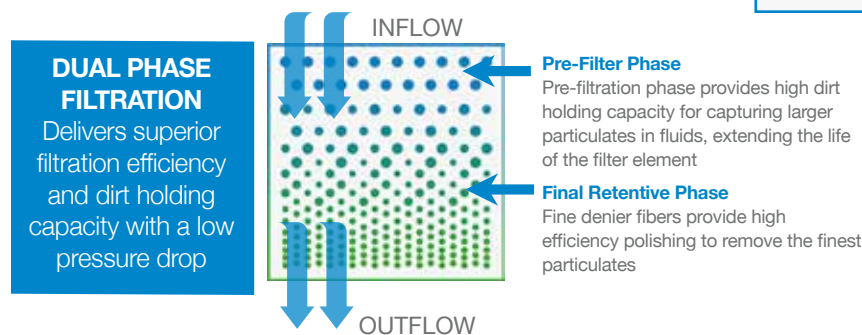
PART NUMBER EXAMPLE: TT8914-8-3V = TT8914 (8 inch length, 3 micron, Viton)



## TTSF8914 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

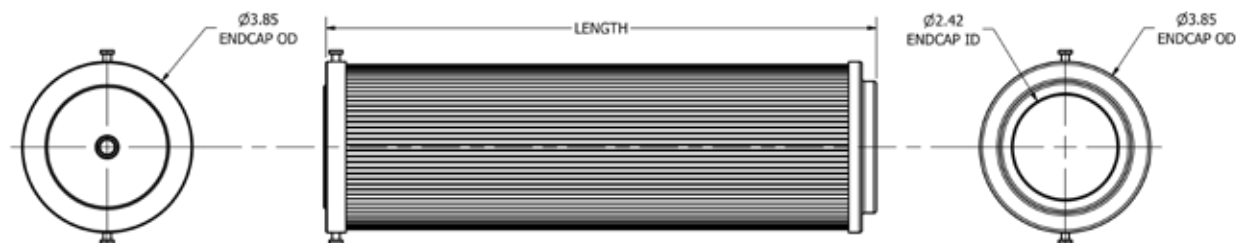
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- Dependent on housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)		-	Micron Rating (µm)	Media Type	Seal Type
TTSF8914		8 = 7.62	39 = 38.13		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		13 = 12.42			3		V = Viton
		14 = 13.75			6		
		16 = 16.32			10		
		26 = 25			25		

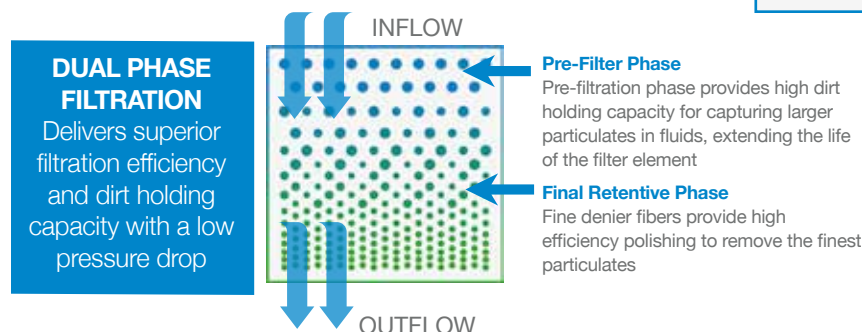
PART NUMBER EXAMPLE: TTSF8914-8-3V = TTSF8914 (8 inch length, 3 micron SmartFlow media, Viton)



## TT9020 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 290 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT9020		4 = 4.51		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		8 = 8.13		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				10			
				25			

PART NUMBER EXAMPLE: TT9020-4-3V = TT9020 (4.51 length, 3 micron, viton seal type)

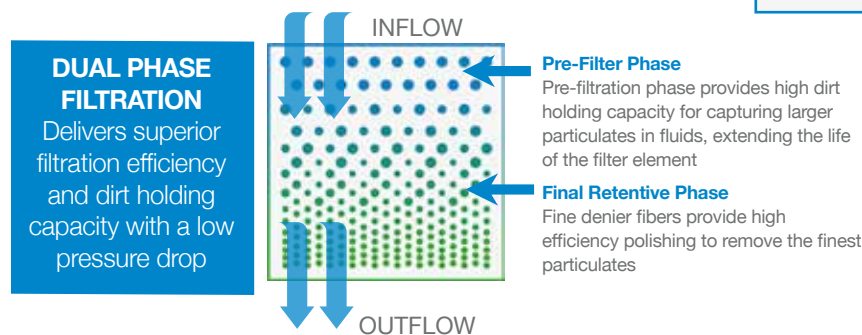




## TTSF9020 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 290 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF9020		4 = 4.51		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		8 = 8.13		3	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		
				10		
				25		

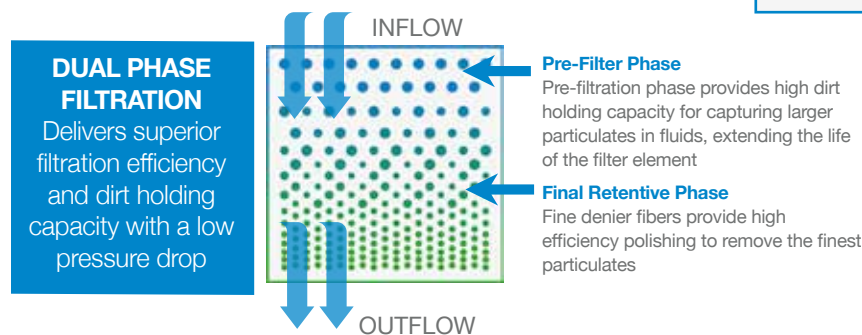
PART NUMBER EXAMPLE: TT9020-4-3SFV = TTSF9020 (4.51 length, 3 micron SmartFlow media, viton seal type)



## TT9020CD Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 290 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT9020CD		4 = 4.62		1	74*	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna
		8 = 8.27		3	149*	SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>	V = Viton
				6		*W = Stainless Steel Wire Mesh <i>Only available in nominally rated 25, 74, 149µm</i>	
				10			
				25			

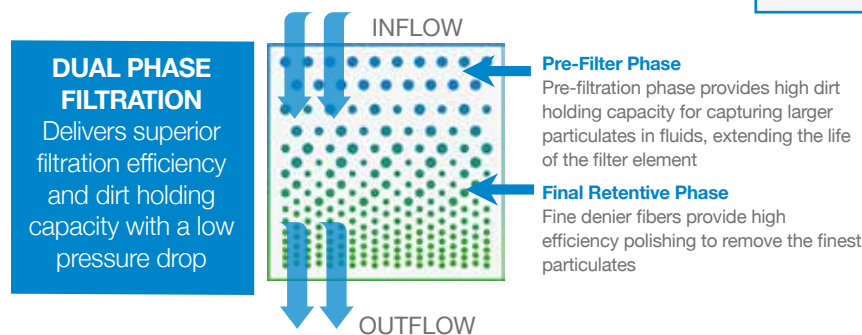
PART NUMBER EXAMPLE: TT9020CD-4-3V = TT9020CD (4 length, 3 micron, viton seal type)



## TTSF9020CD Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

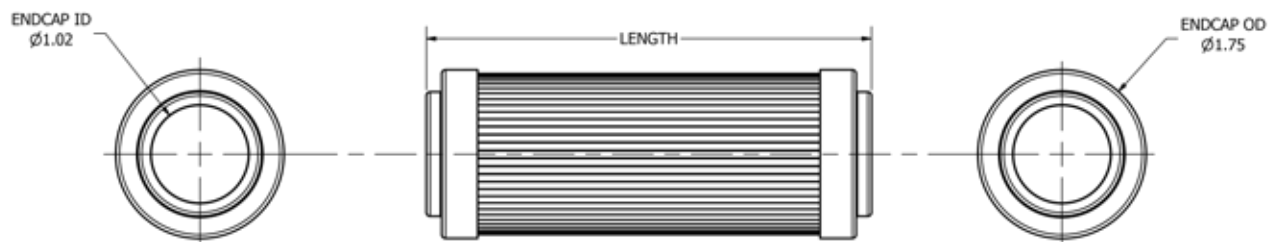
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 290 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF9020CD		4 = 4.62		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		8 = 8.27		3	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		
				10		
				25		

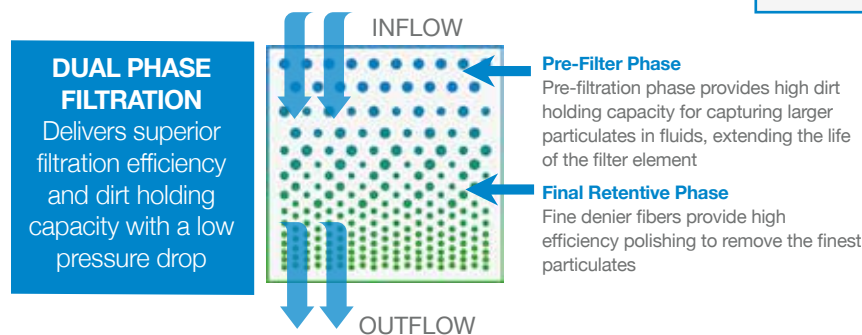
PART NUMBER EXAMPLE: TTSF9020CD-4-3V = TTSF9020CD (4 length, 3 micron SmartFlow media, viton seal type)



## TT9021 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

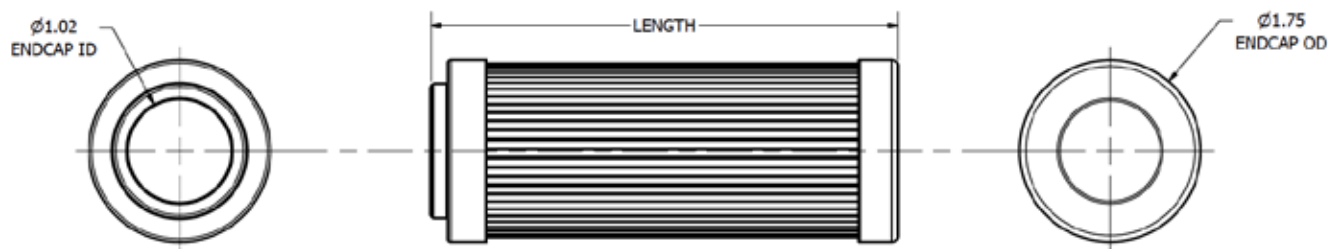
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT9021		4 = 4.51		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		8 = 8.13		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				10			
				25			

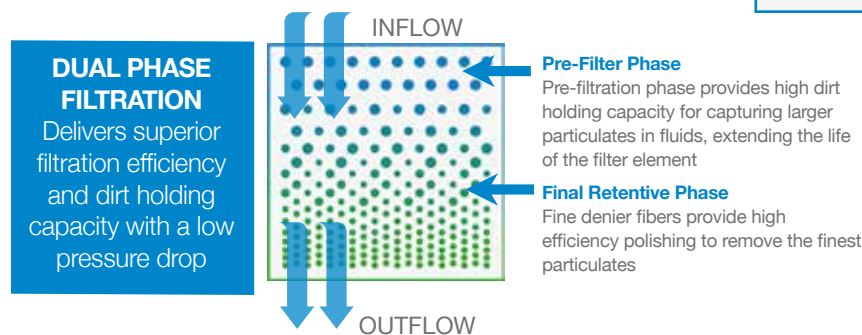
PART NUMBER EXAMPLE: TT9021-4-3V = TT9021 (4.51 length, 3 micron, viton seal type)



## TTSF9021 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

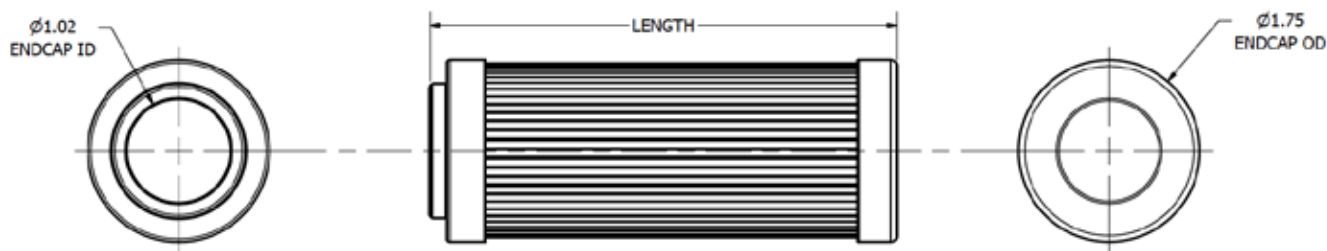
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF9021		4 = 4.51		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		8 = 8.13		3	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		
				10		
				25		

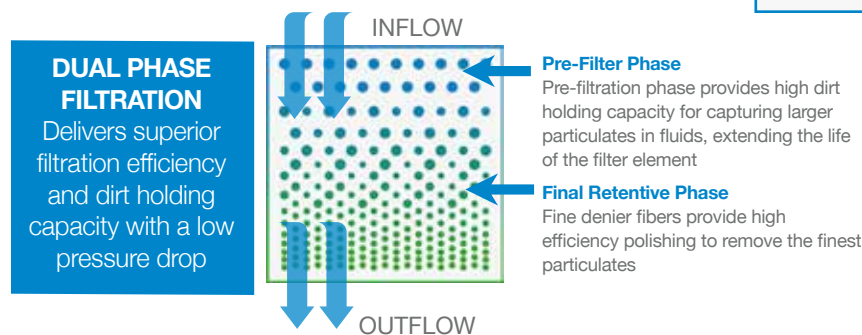
PART NUMBER EXAMPLE: TTSF9021-4-3V = TTSF9021 (4.51 length, 3 micron SmartFlow media, viton seal type)



## TT9400 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

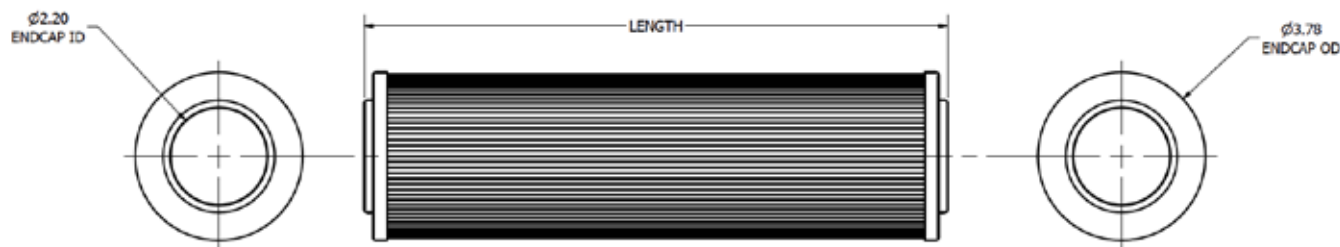
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT9400		13 = 13.15		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		26 = 25.91		3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		39 = 38.90		6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

PART NUMBER EXAMPLE: TT9400-13-3V = TT9400 (13.15 length, 3 micron, viton seal type)

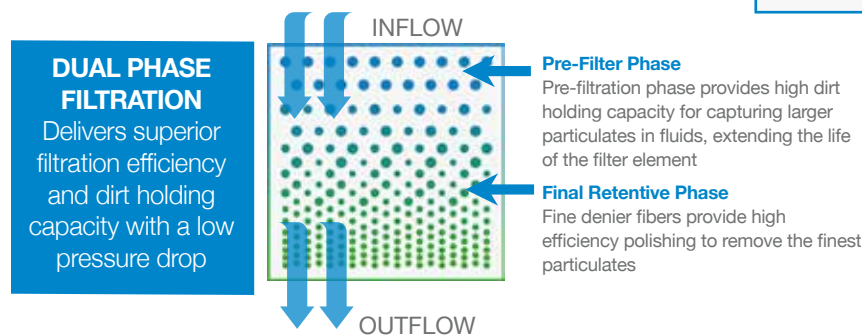




## TTSF9400 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

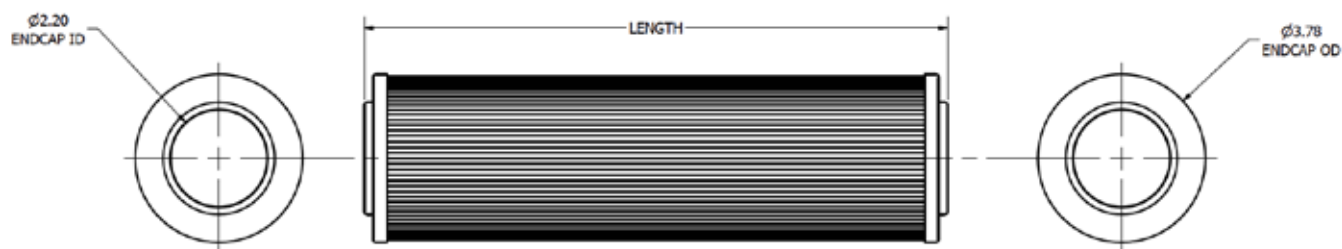
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF9400		13 = 13.15		1	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna
		26 = 25.91		3	WA = Water Absorptive <i>Available in 3, 6, 10, 25µm</i>	V = Viton
		39 = 38.90		6	SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>	
				10		
				25		

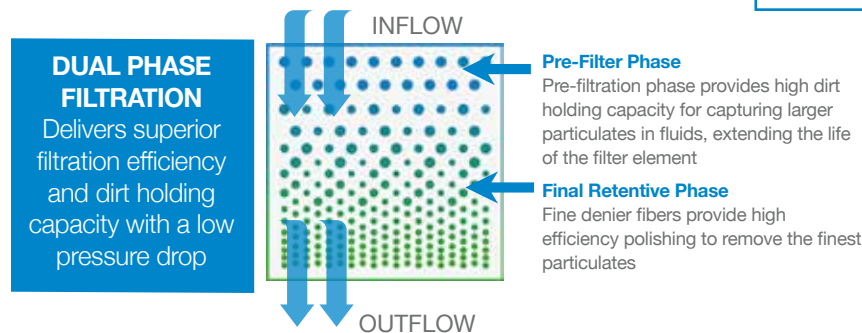
PART NUMBER EXAMPLE: TTSF9400-13-3V = TTSF9400 (13.15 length, 3 micron SmartFlow media, viton seal type)



## TT9401 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT9401		8 = 8.00		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		13 = 13.04		3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
				6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

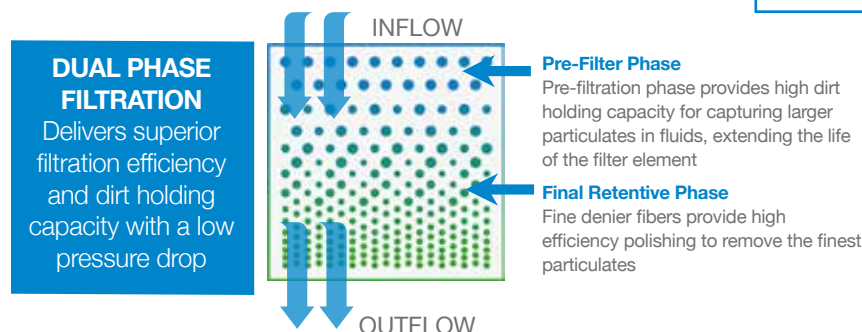
PART NUMBER EXAMPLE: TT9401-13-3V = TT9401 (13 length, 3 micron, viton seal type)



## TTSF9401 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

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### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF9401		8 = 8.00		1	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna
		13 = 13.04		3	WA = Water Absorptive <i>Available in 3, 6, 10, 25µm</i>	V = Viton
				6	SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>	
				10		
				25		

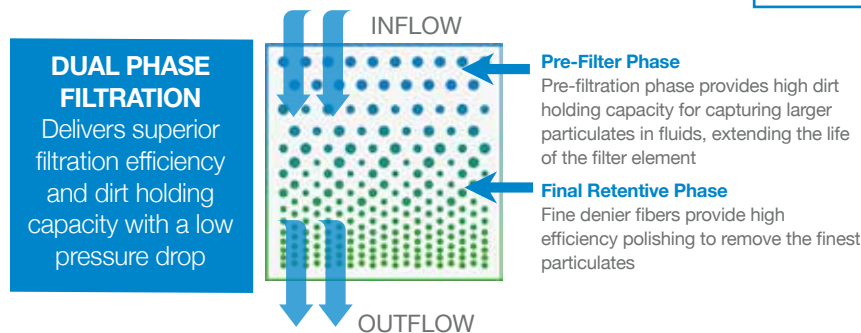
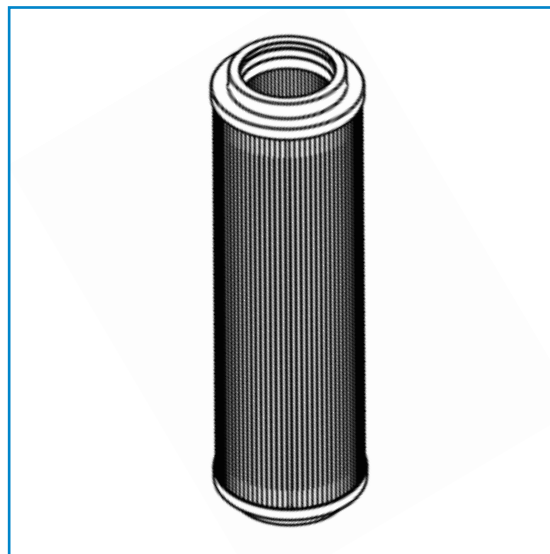
PART NUMBER EXAMPLE: TTSF9401-8-3V = TTSF9401 (8 length, 3 micron SmartFlow media, viton seal type)



## TT9414 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

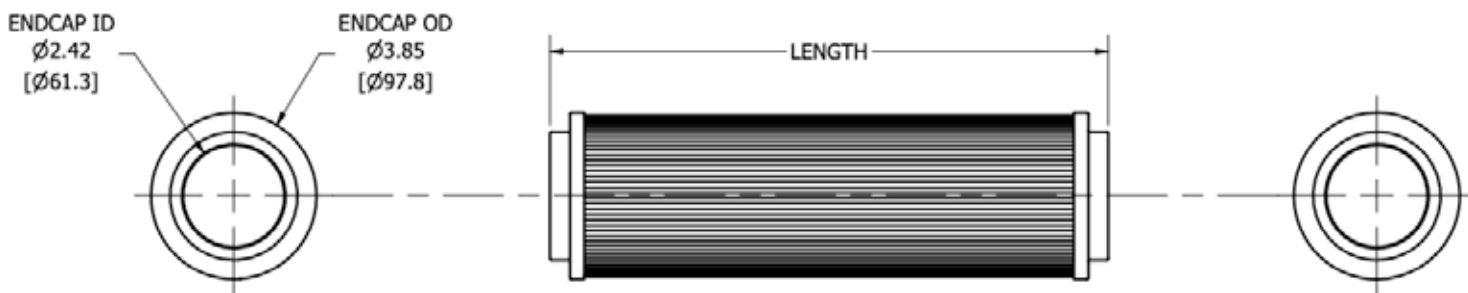
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- Collapse Rating Dependent on Housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TT9414		8 = 7.31"		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		13 = 12.35"		3		V = Viton
		16 = 15.31"		6		
		26 = 25.03"		10		
		39 = 38.11"		25		

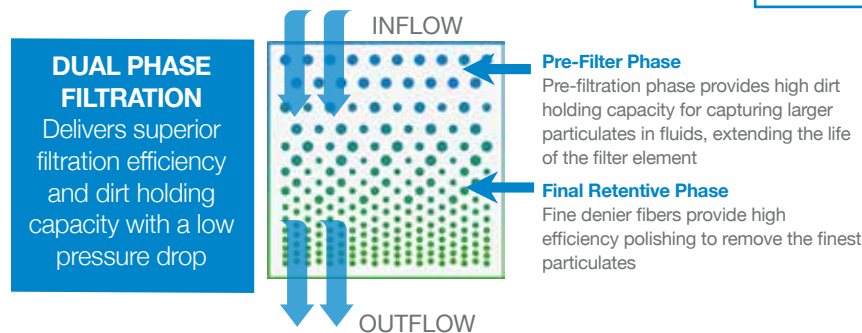
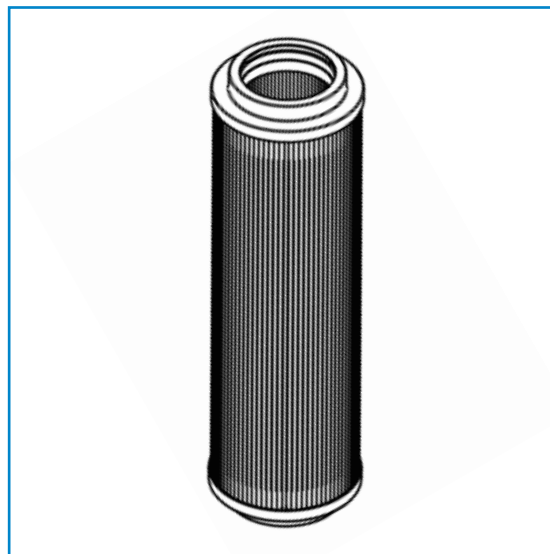
PART NUMBER EXAMPLE: TT9414-13-3V = TT9414 (13 length, 3 micron, viton seal type)



## TTSF9414 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

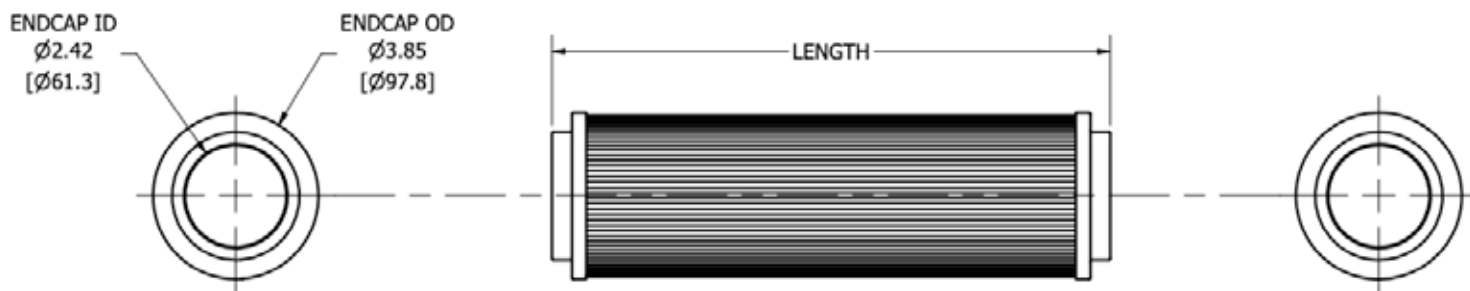
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- Collapse Rating Dependent on Housing
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TT9414		8 = 7.31"		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		13 = 12.35"		3		V = Viton
		16 = 15.31"		6		
		26 = 25.03"		10		
		39 = 38.11"		25		

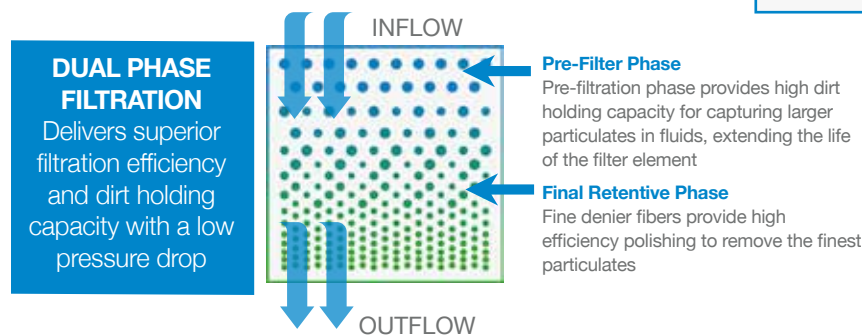
PART NUMBER EXAMPLE: TTSF9414-13-3V = TTSF9414 (13 length, 3 micron SmartFlow media, viton seal type)



## TT9600 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

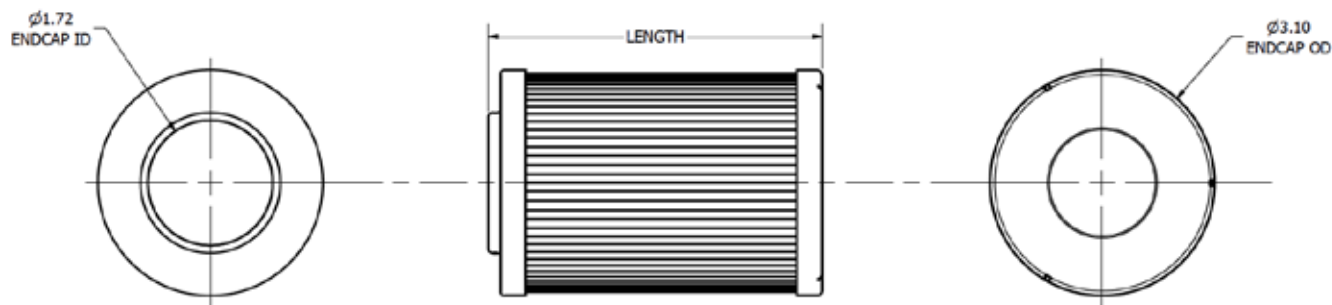
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT9600		4 = 4.61		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		8 = 8.15		3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		13 = 12.95		6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		16 = 16.80		10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

PART NUMBER EXAMPLE: TT9600-4-3V = TT9600 (4.61 length, 3 micron, viton seal type)

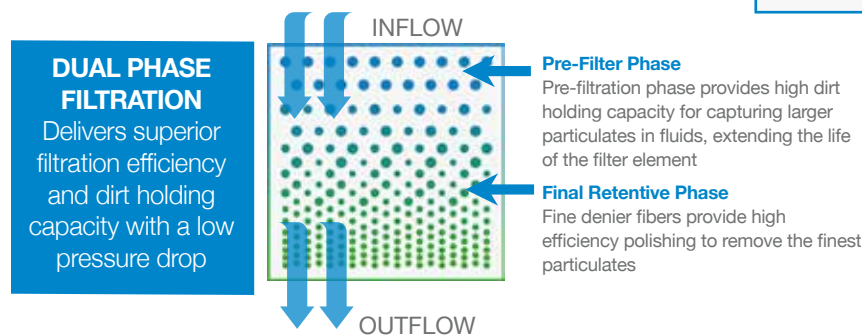




## TTSF9600 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

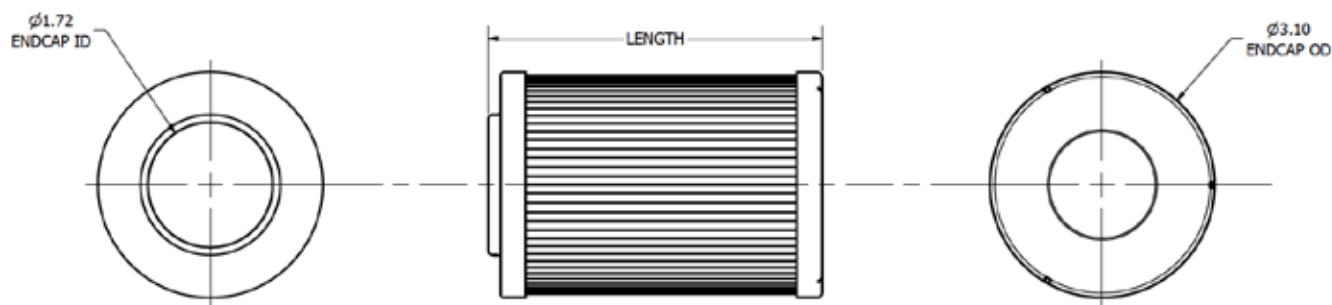
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF9600		4 = 4.61		1	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna
		8 = 8.15		3	WA = Water Absorptive <i>Available in 3, 6, 10, 25µm</i>	V = Viton
		13 = 12.95		6	SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>	
		16 = 16.80		10		
				25		

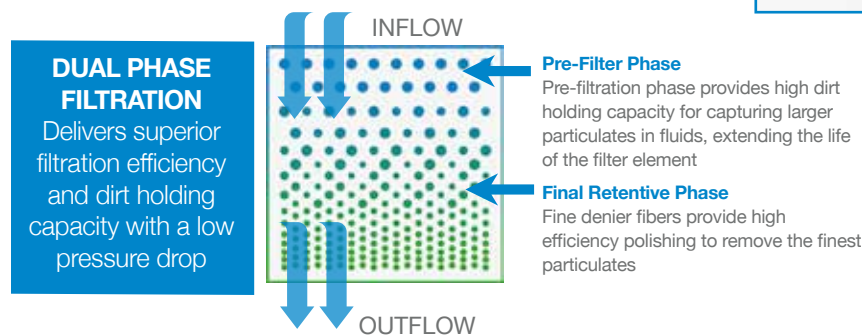
PART NUMBER EXAMPLE: TTSF9600-4-3V = TTSF9600 (4.61 length, 3 micron SmartFlow media, viton seal type)



## TT9601 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

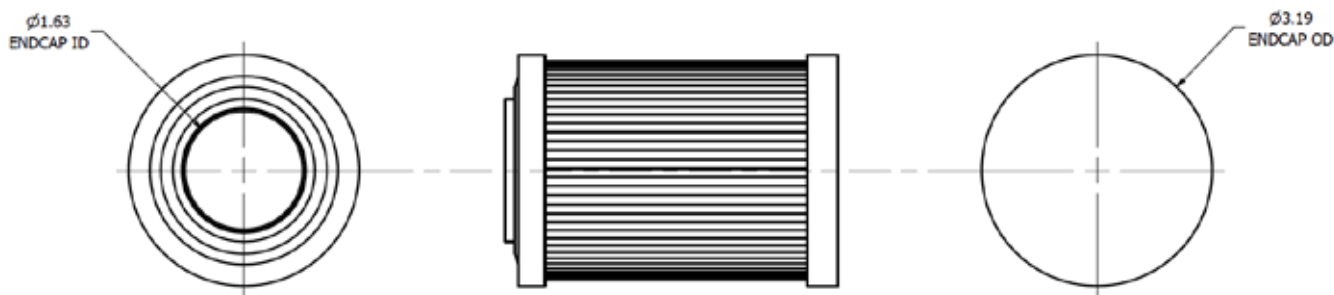
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT9601		4 = 4.59		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		8 = 8.13		3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		13 = 12.95		6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
		16 = 16.80		10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

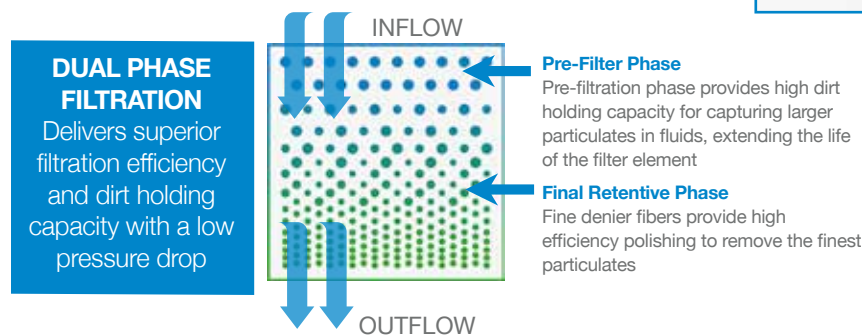
PART NUMBER EXAMPLE: TT9601-4-3V = TT9601 (4.59 length, 3 micron, viton seal type)



## TTSF9601 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

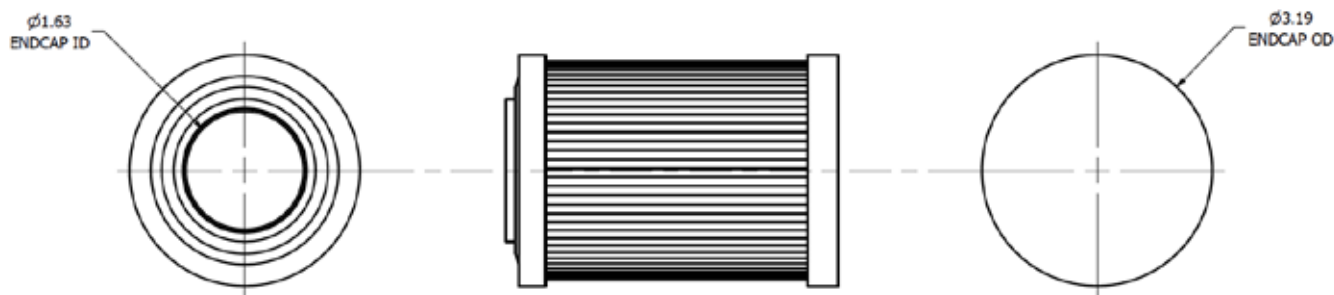
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF9601		4 = 4.59		1	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna
		8 = 8.13		3	WA = Water Absorptive <i>Available in 3, 6, 10, 25µm</i>	V = Viton
		13 = 12.95		6	SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>	
		16 = 16.80		10		
				25		

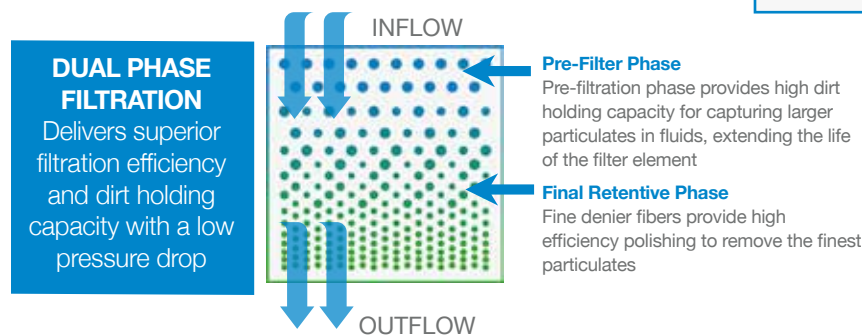
PART NUMBER EXAMPLE: TTSF9601-4-3V = TTSF9601 (4.59 length, 3 micron SmartFlow Media, viton seal type)



## TT9650 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

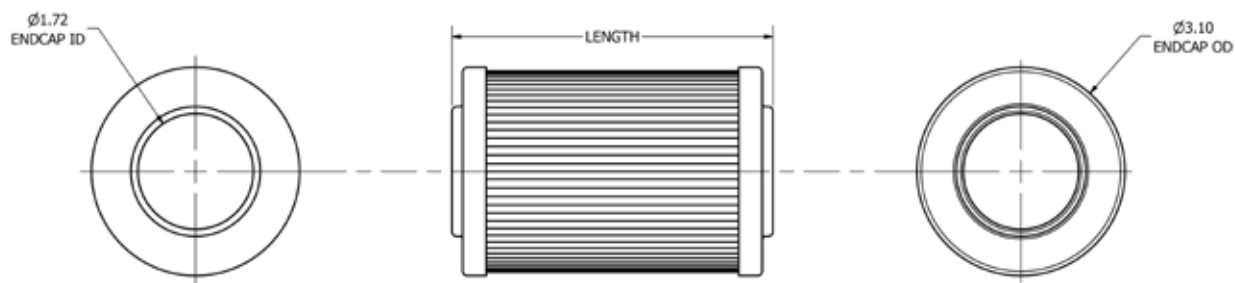
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT9650		8 = 8.42		1	74*	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna
		16 = 17.03		3	149*	WA = Water Absorptive <i>Available in 3, 6, 10, 25µm</i>	V = Viton
				6		SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>	
				10		*W = Stainless Steel Wire Mesh <i>Only available in nominally rated 25, 74, 149µm</i>	
				25			

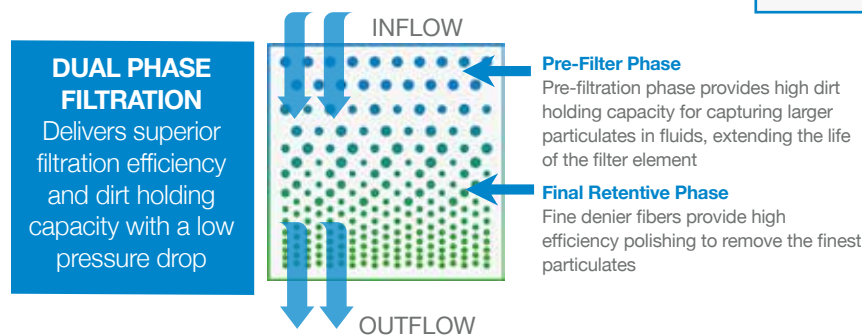
PART NUMBER EXAMPLE: TT9650-8-3V = TT9650 (8 length, 3 micron, viton seal type)



## TTSF9650 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

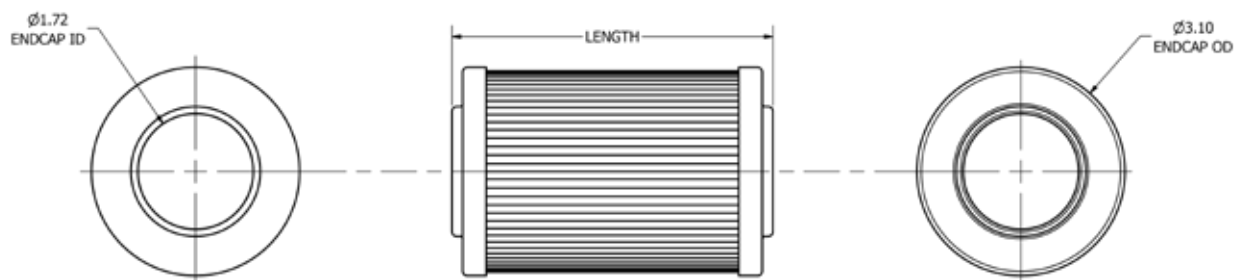
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF9650		8 = 8.42		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		16 = 17.03		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
				6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		
				25		

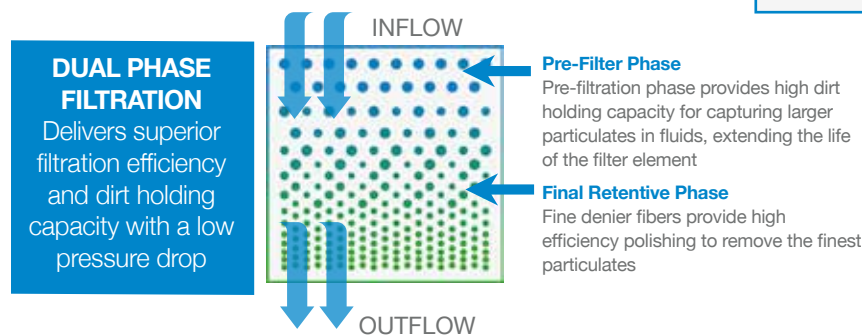
PART NUMBER EXAMPLE: TTSF9650-8-3V = TTSF9650 (8 length, 3 micron SmartFlow Media, viton seal type)



## TT9651 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

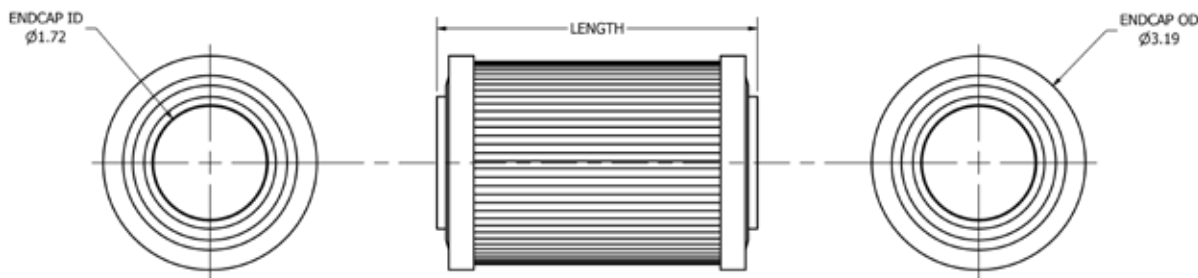
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT9651		8 = 8.42		1	74*	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna
		16 = 17.03		3	149*	WA = Water Absorptive <i>Available in 3, 6, 10, 25µm</i>	V = Viton
				6		SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>	
				10		*W = Stainless Steel Wire Mesh <i>Only available in nominally rated 25, 74, 149µm</i>	
				25			

PART NUMBER EXAMPLE: TT9651-8-3V = TT9651 (8 length, 3 micron, viton seal type)

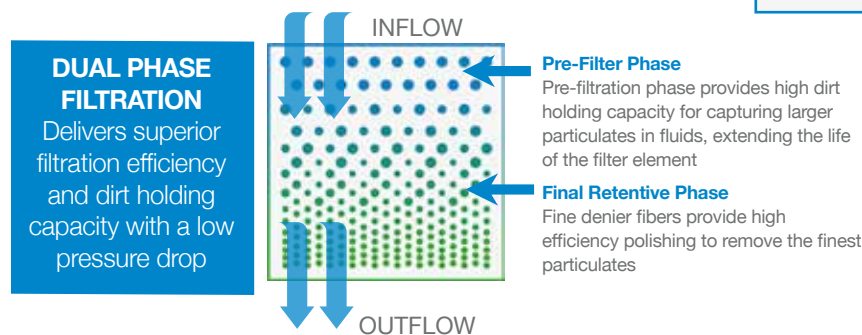




## TTSF9651 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

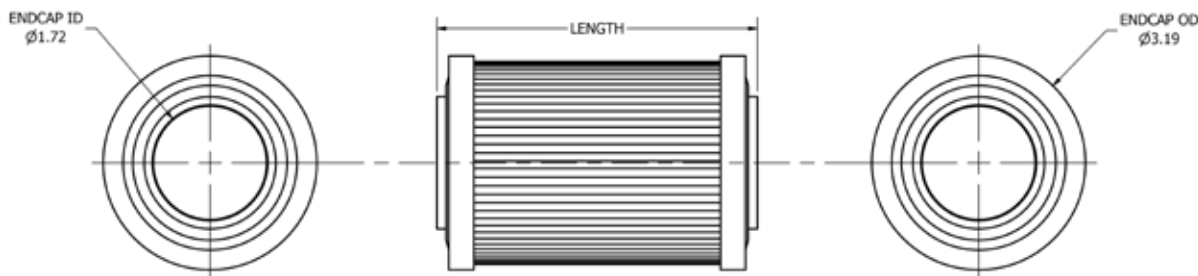
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF9651		8 = 8.42		1	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna
		16 = 17.03		3	WA = Water Absorptive <i>Available in 3, 6, 10, 25µm</i>	V = Viton
				6	SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>	
				10		
				25		

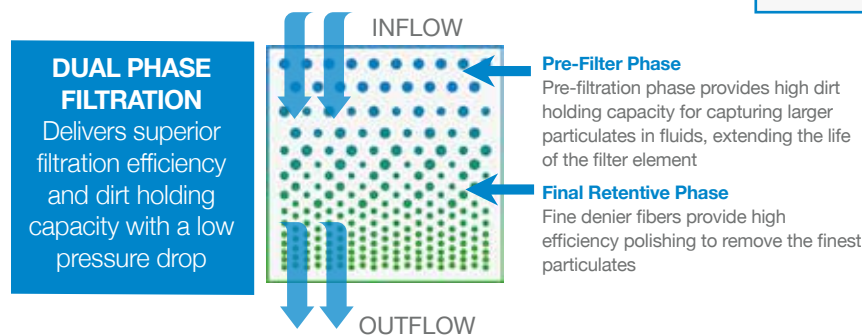
PART NUMBER EXAMPLE: TTSF9651-8-3V = TTSF9651 (8 length, 3 micron SmartFlow media, viton seal type)



## TT9800 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

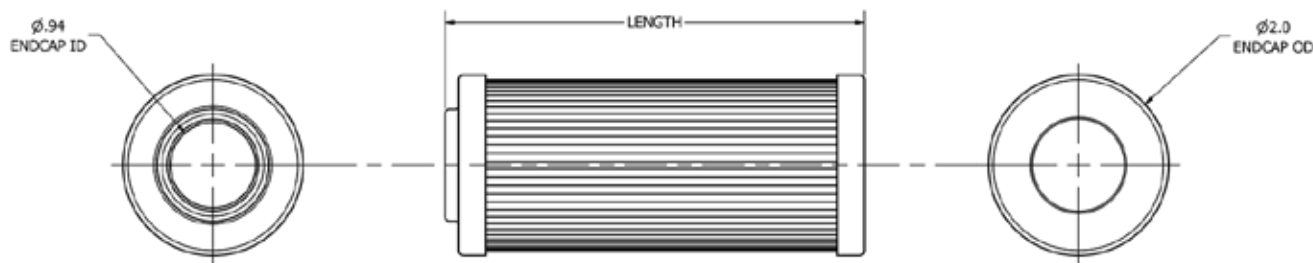
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT9800		4 = 4.61		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		8 = 8.15		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		13 = 12.95		6		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				10			
				25			

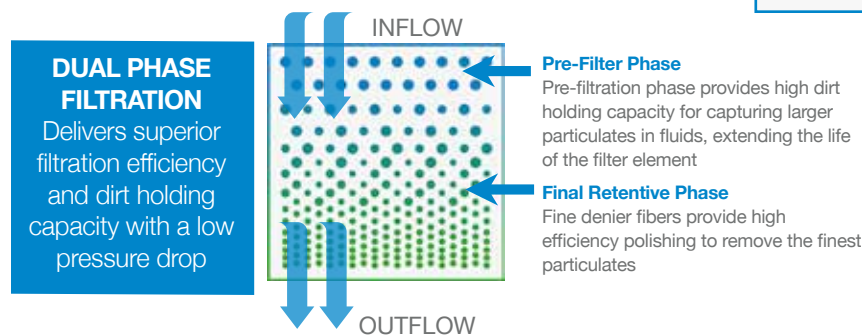
PART NUMBER EXAMPLE: TT9800-4-3V = TT9800 (4.61 length, 3 micron, viton seal type)



## TTSF9800 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF9800		4 = 4.61		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		8 = 8.15		3	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		13 = 12.95		6		
				10		
				25		

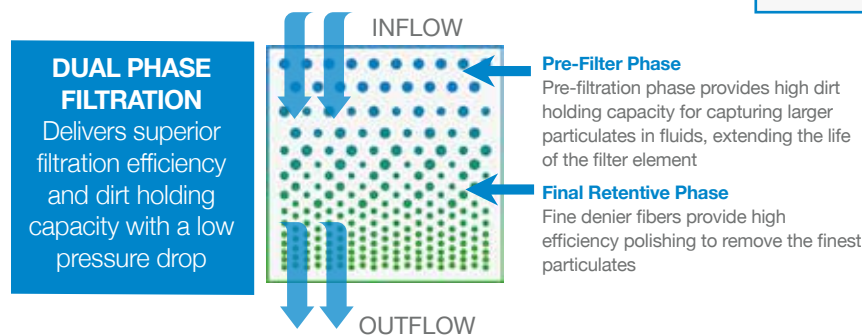
PART NUMBER EXAMPLE: TTSF9800-4-3V = TTSF9800 (4.61 length, 3 micron SmartFlow media, viton seal type)



## TT9801 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

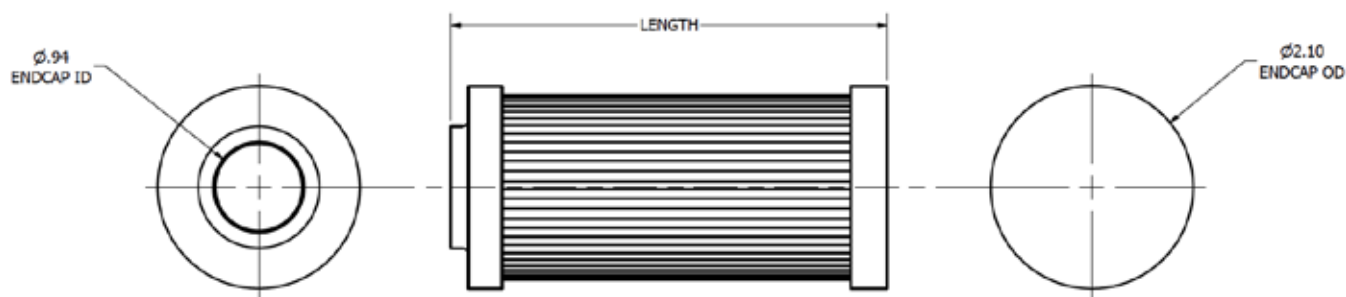
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT9801		4 = 4.53		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		8 = 8.15		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
		13 = 12.95		6		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				10			
				25			

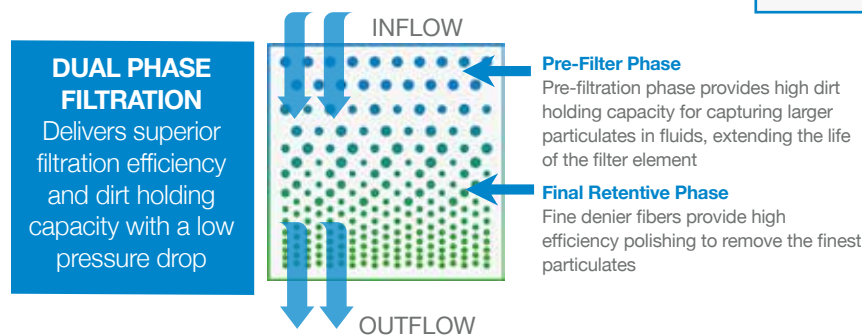
PART NUMBER EXAMPLE: TT9801-4-3V = TT9801 (4.53 length, 3 micron, viton seal type)



## TTSF9801 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

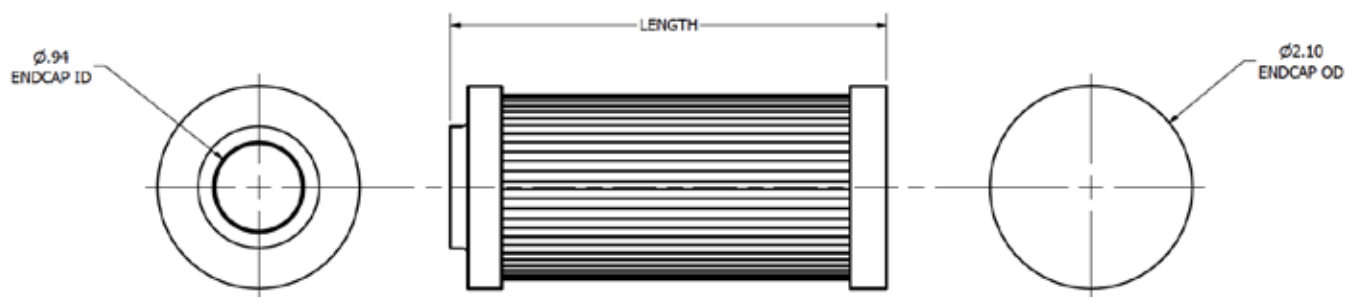
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF9801		4 = 4.53		1	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna
		8 = 8.15		3	SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>	V = Viton
		13 = 12.95		6		
				10		
				25		

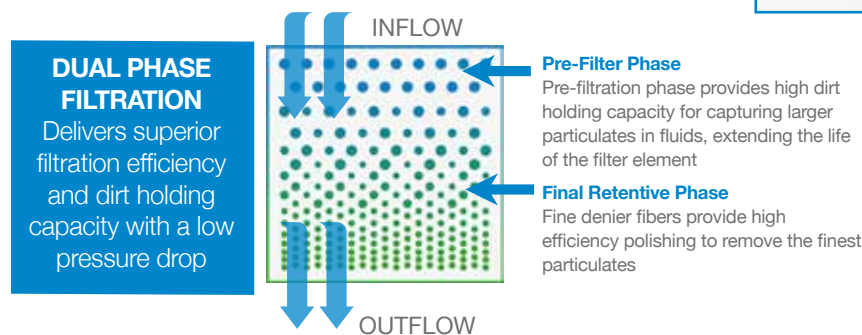
PART NUMBER EXAMPLE: TTSF9801-4-3V = TTSF9801 (4.53 length, 3 micron SmartFlow media, viton seal type)



## TT9901 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

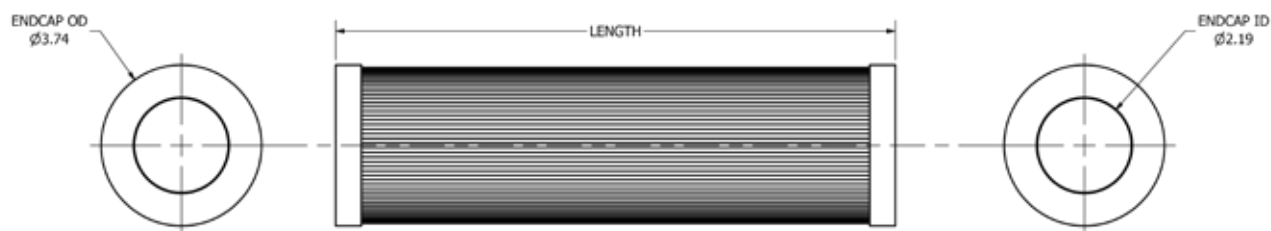
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TT9901		13 = 13.04		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
				3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
				6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

PART NUMBER EXAMPLE: TT9901-13-3V = TT9901 (13 length, 3 micron, viton seal type)

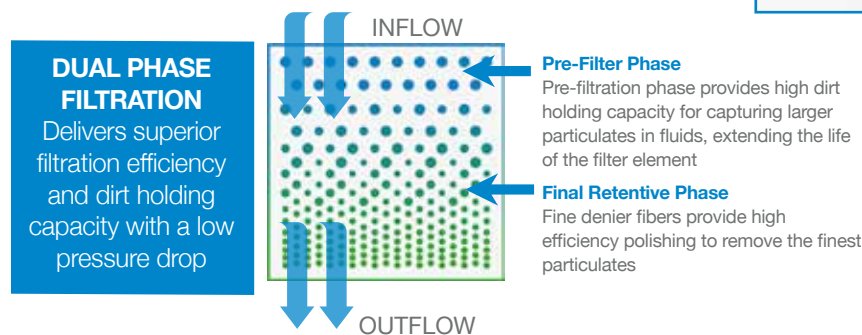




## TTSF9901 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

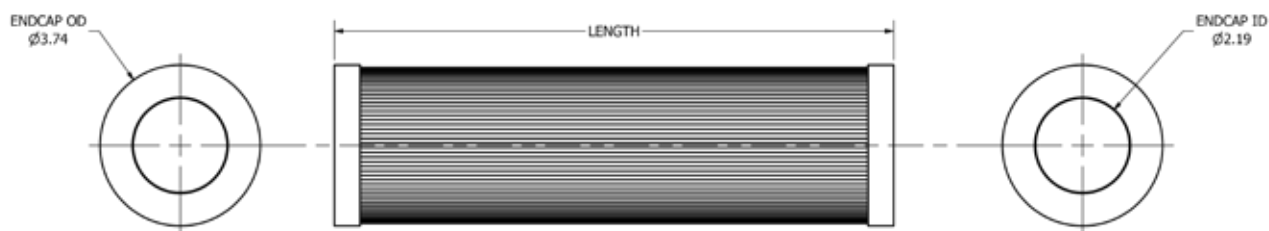
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSF9901		13 = 13.04		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
				3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
				6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		
				25		

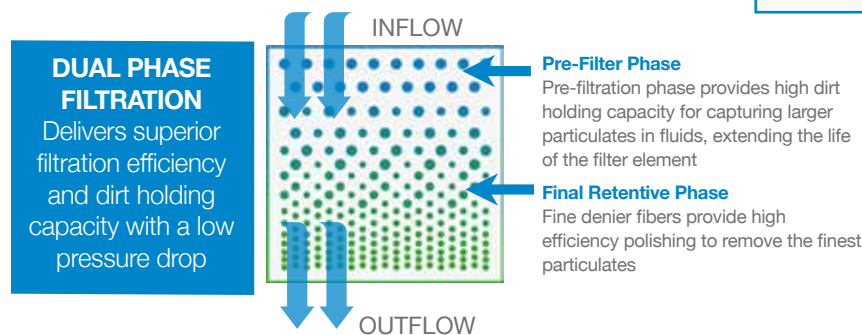
PART NUMBER EXAMPLE: TTSF9901-13-3V = TTSF9901 (13 length, 3 micron SmartFlow media, viton seal type)



## TT20082 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

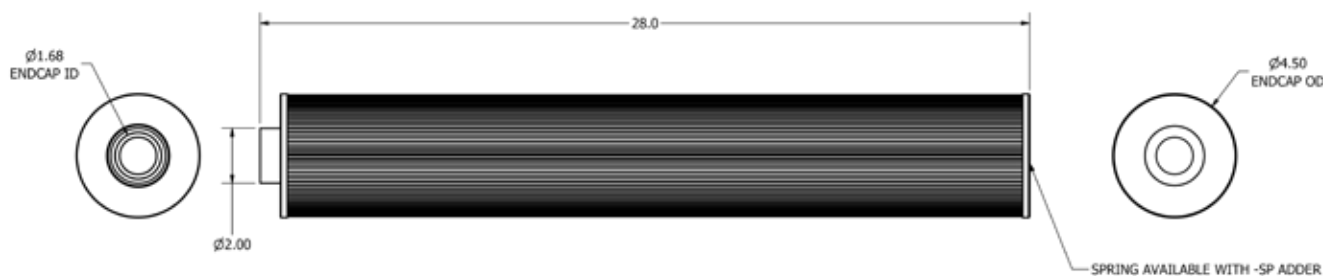
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type	-	Spring
TT20082		28		2	17	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna		Omit <i>No Spring</i>
				3	25	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton		SP <i>With Spring</i>
				6	74*	*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>			
				12	149*				
				15					

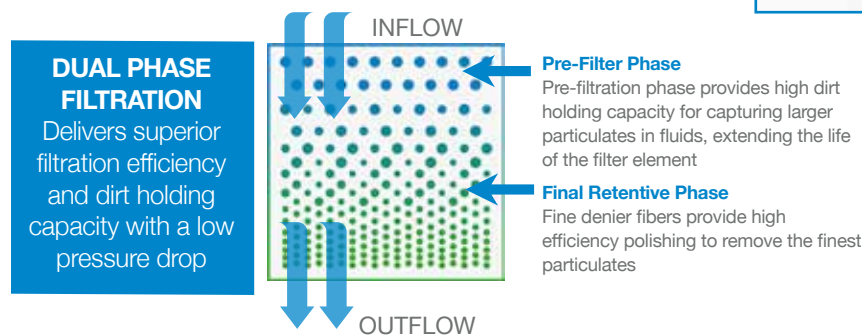
PART NUMBER EXAMPLE: TT20082-28-3V = TT20082 (28 length, 3 micron, viton seal type)



## TTSF20082 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

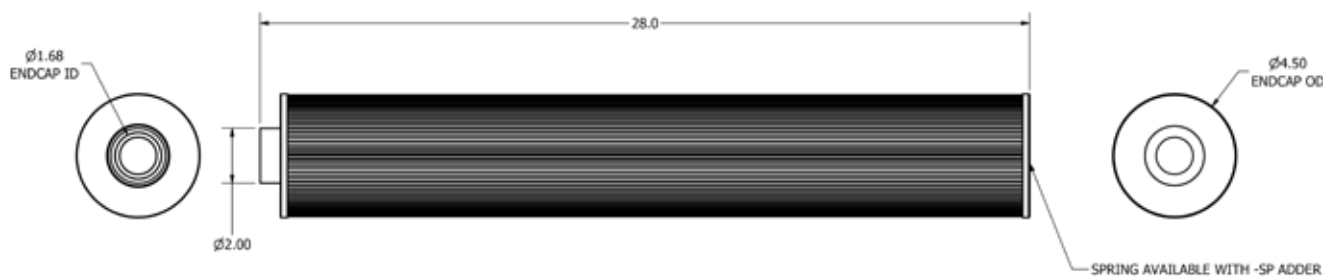
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type	-	Spring
TTSF20082		28		2	17	(Omit) = Dual Phase Microglass <i>Standard option β1000, available in 1, 3, 6, 10, 25µm</i>	B = Buna		Omit No Spring
				3	25	SD = Static Dissipative <i>Viton seals only, available in 1, 3, 6, 10, 25µm</i>	V = Viton		SP With Spring
				6					
				12					
				15					

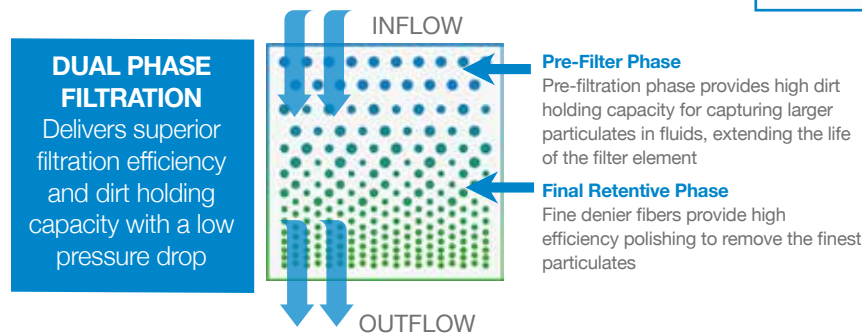
PART NUMBER EXAMPLE: TTSF20082-28-3V = TTSF20082 (28 length, 3 micron SmartFlow media, viton seal type)



## TTCF20 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

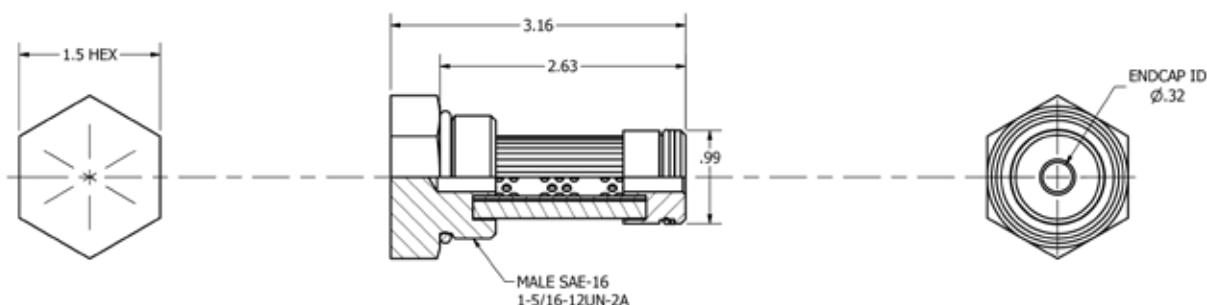
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Micron Rating (µm)		Media Type	Seal Type
TTCF20		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		3	149*	*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	V = Viton
		6			
		10			
		25			

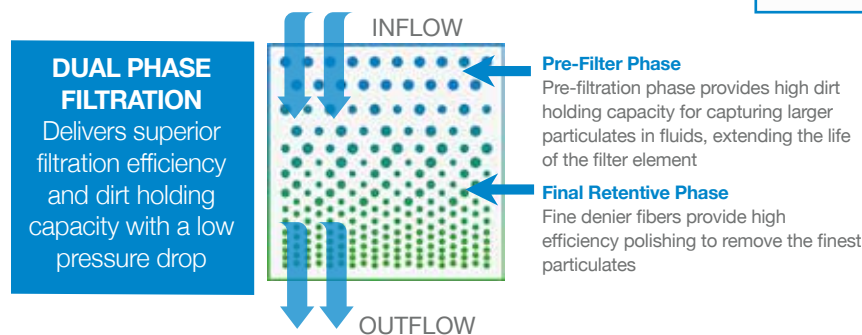
PART NUMBER EXAMPLE: TTCF20-3V = TTCF20 (3 micron, viton seal type)



## TTSFCF20 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

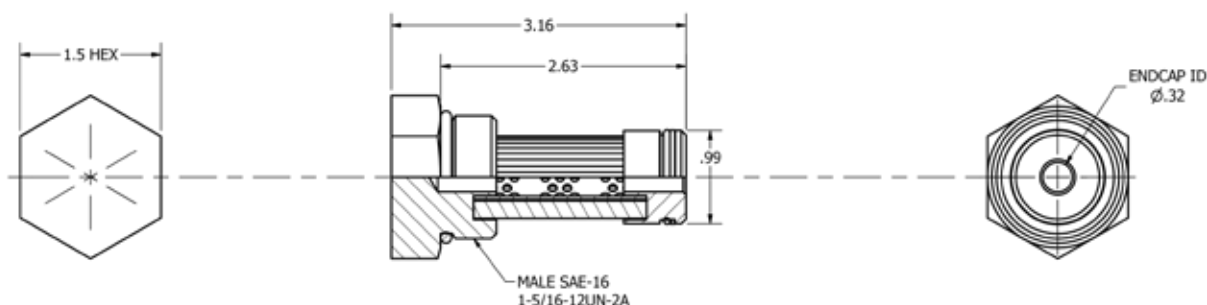
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Micron Rating (µm)	Media Type	Seal Type
TTSFCF20		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		3		V = Viton
		6		
		10		
		25		

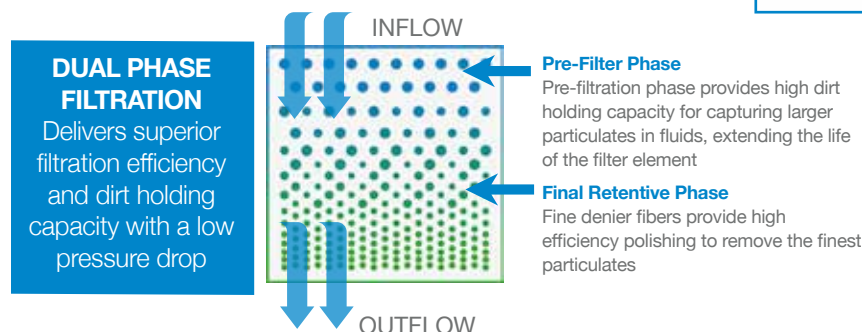
PART NUMBER EXAMPLE: TTSFCF20-3V = TTSFCF20 (3 micron SmartFlow media, viton seal type)



## TTDEL Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

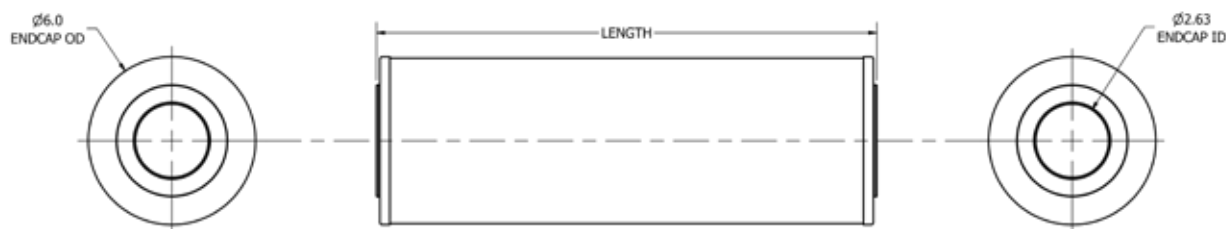
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 2000 hour change out recommended for continuous use
- 4320 hour change out recommended for intermittent use
- Immediate change out recommended when flow restriction is noted in system

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)
TTDEL		11 = 11
		22 = 22
		36 = 36

PART NUMBER EXAMPLE: TTDEL-11 = TTDEL (11 length)

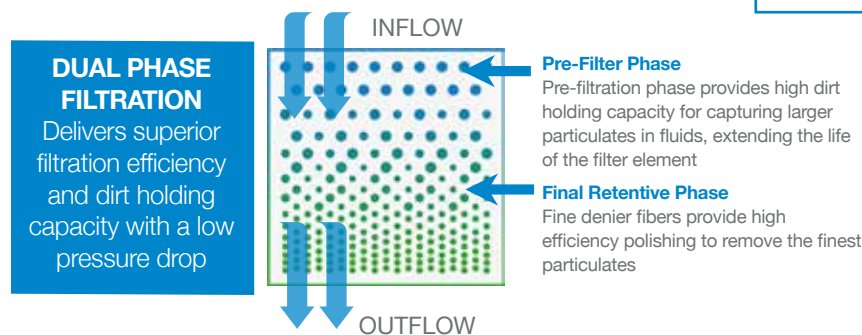




## TTHPR Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

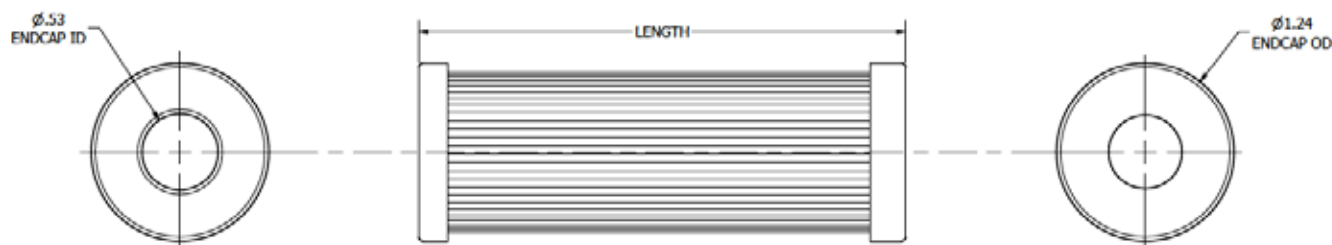
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type
TTHPR		19 = 1.26		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>
		29 = 3.39		3	149*	*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>
				6		
				10		
				25		

PART NUMBER EXAMPLE: TTHPR-29-3V = TTHPR (3.39 length, 3 micron, viton seal type)



## TTSFHPR Series

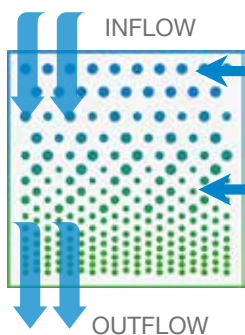
TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### DUAL PHASE FILTRATION

Delivers superior filtration efficiency and dirt holding capacity with a low pressure drop



#### Pre-Filter Phase

Pre-filtration phase provides high dirt holding capacity for capturing larger particulates in fluids, extending the life of the filter element

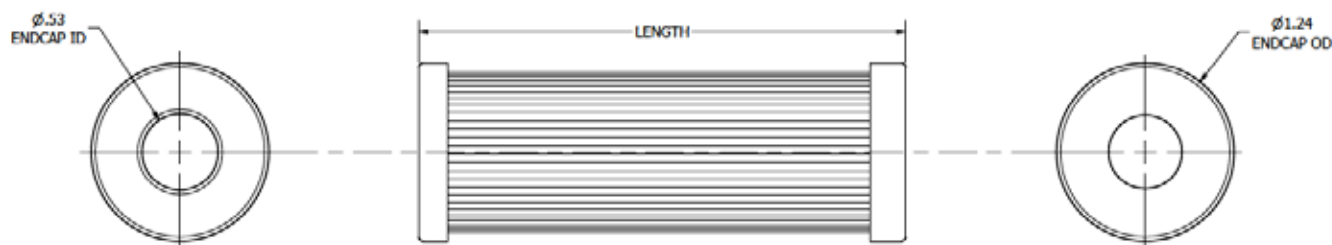
#### Final Retentive Phase

Fine denier fibers provide high efficiency polishing to remove the finest particulates

### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating B1000	Media Type
TTSFHPR		19 = 1.26		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25μm</small>
		29 = 3.39		3	
				6	
				10	
				25	

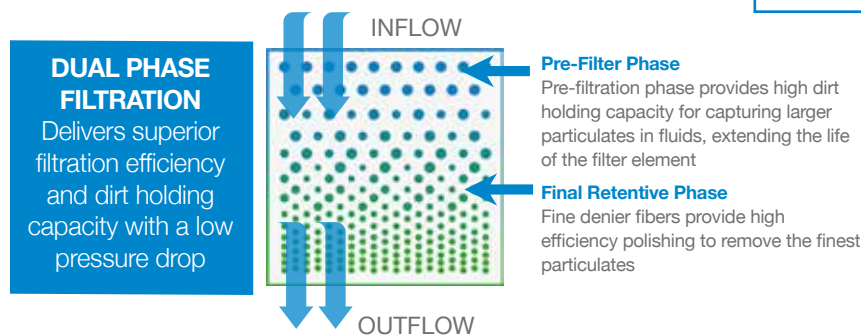
PART NUMBER EXAMPLE: TTSFHPR-29-3V = TTSFHPR (3.39 length, 3 micron SmartFlow media, viton seal type)



## TTK Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

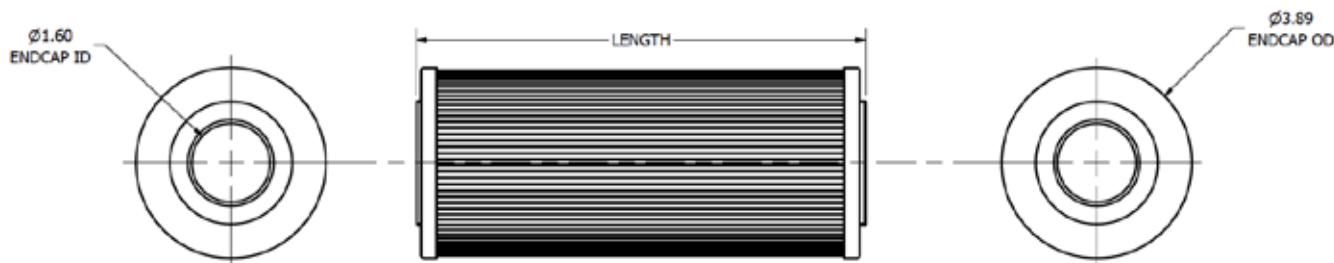
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TTK		9 = 9.25		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		18 = 18.50		3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		27 = 27.95		6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

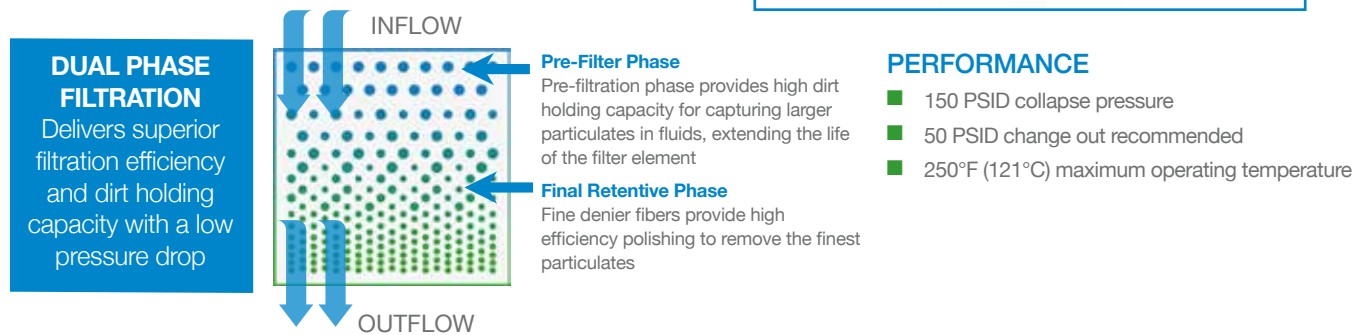
PART NUMBER EXAMPLE: TTK-9-3V = TTK (9.25 length, 3 micron, viton seal type)



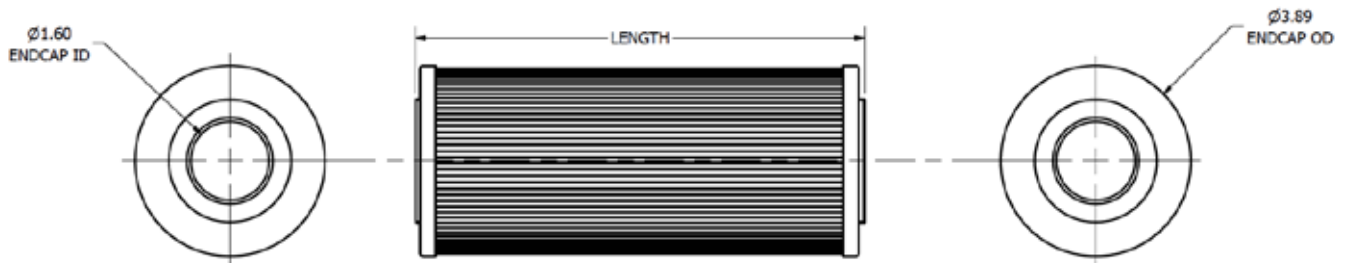
## TTSFK Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



## Dimensions



## Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSFK		9 = 9.25		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		18 = 18.50		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		27 = 27.95		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		
				25		

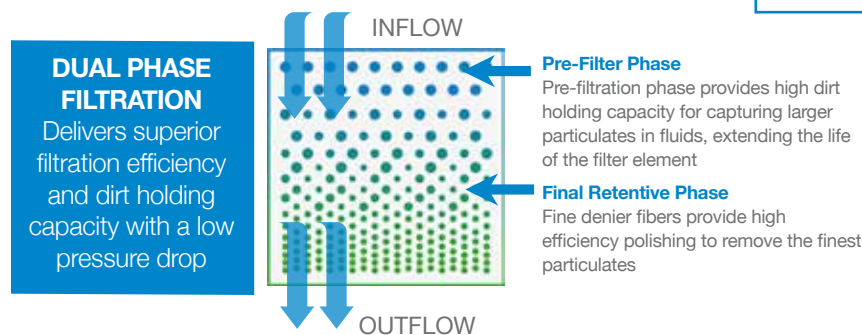
PART NUMBER EXAMPLE: TTSFK-9-3V = TTSFK (9.25 length, 3 micron SmartFlow media, viton seal type)



## TTK3 Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

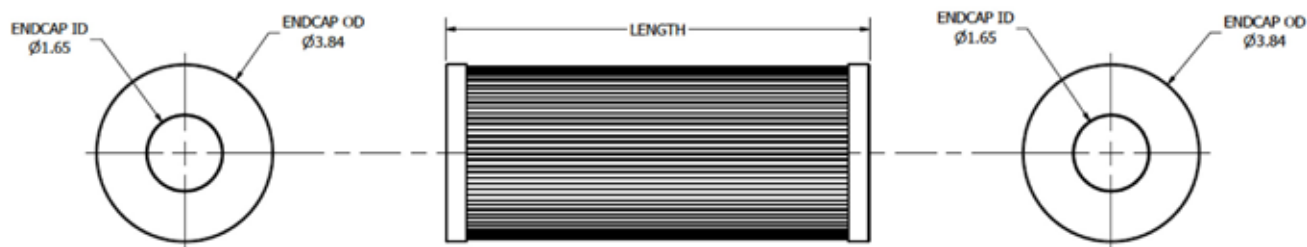
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TTK3		9 = 9.18		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		18 = 18.54		3	149*	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		27 = 27.64		6		SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				25			

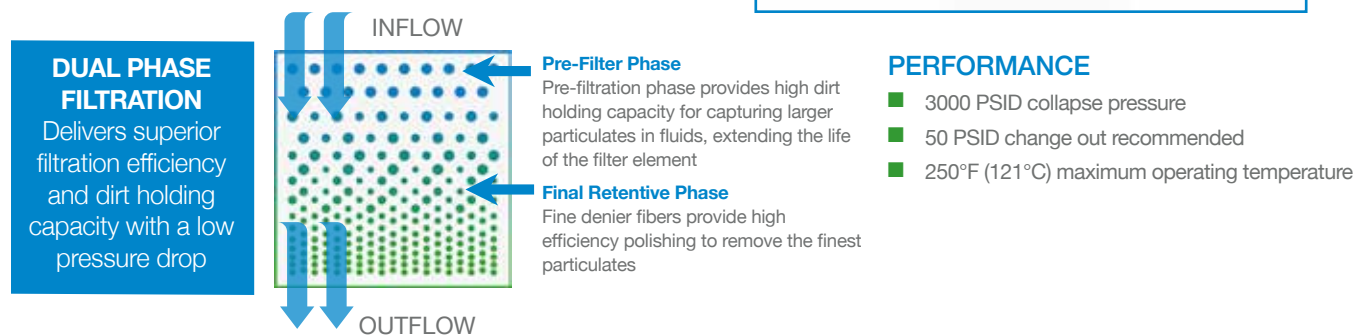
PART NUMBER EXAMPLE: TTK3-9-3V = TTK3 (9.18 length, 3 micron, viton seal type)



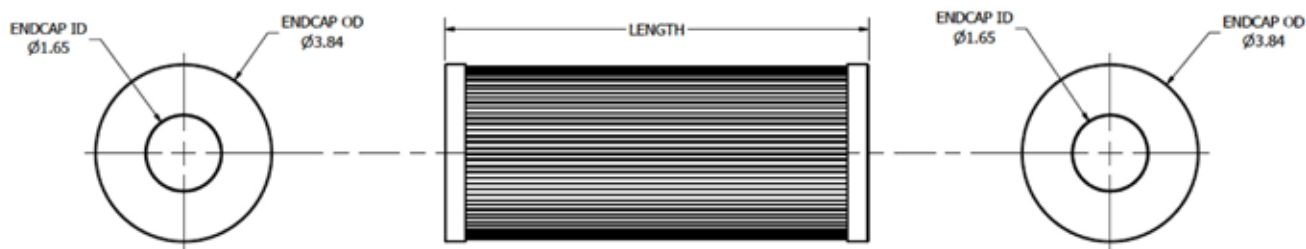
## TTSFK3 Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSFK		9 = 9.18		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		18 = 18.54		3	WA = Water Absorptive <small>Available in 3, 6, 10, 25µm</small>	V = Viton
		27 = 27.64		6	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	
				10		
				25		

PART NUMBER EXAMPLE: TTSFK3-9-3V = TTSFK3 (9.18 length, 3 micron SmartFlow media, viton seal type)

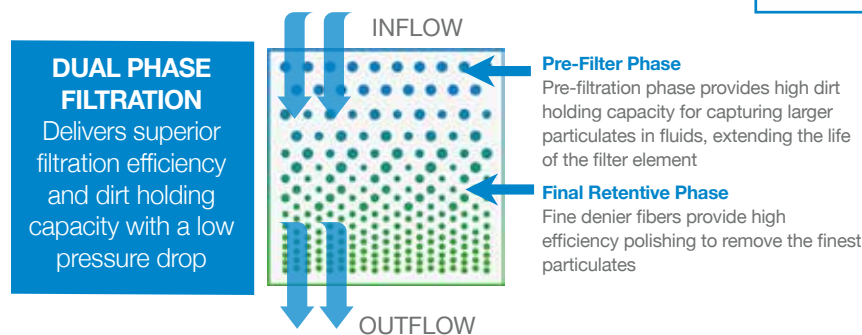




## TTN Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

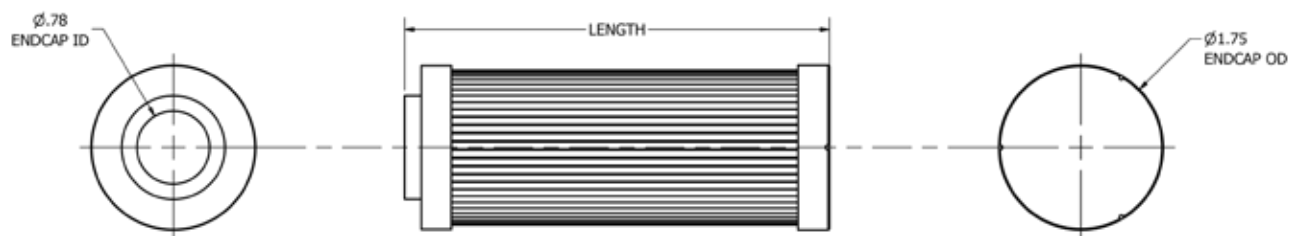
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TTN		5 = 5.28		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		10 = 8.00		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				10			
				25			

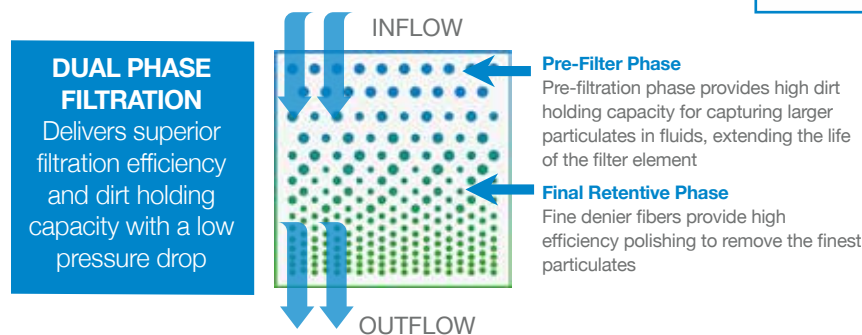
PART NUMBER EXAMPLE: TTN-5-3V = TTN (5 inch length, 3 micron, Viton)



## TTSFN Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

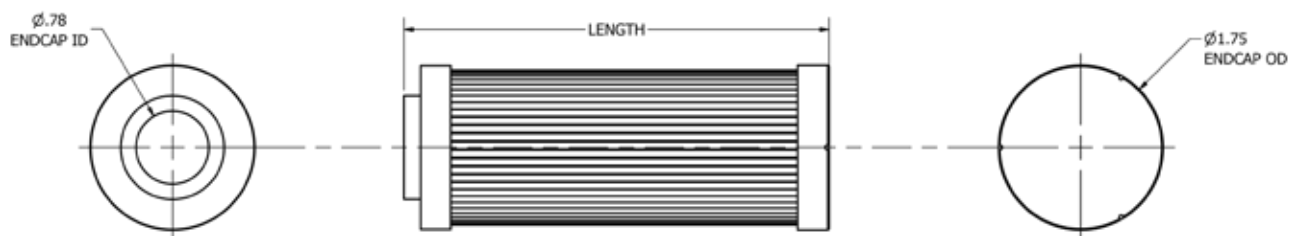
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSFN		5 = 5.28		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		10 = 8.00		3	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		
				10		
				25		

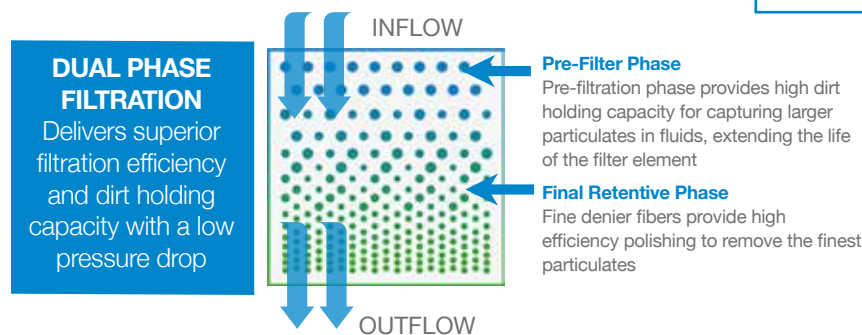
PART NUMBER EXAMPLE: TTSFN-5-3V = TTSFN (5 inch length, 3 micron SmartFlow media, Viton)



## TTNHC Series

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

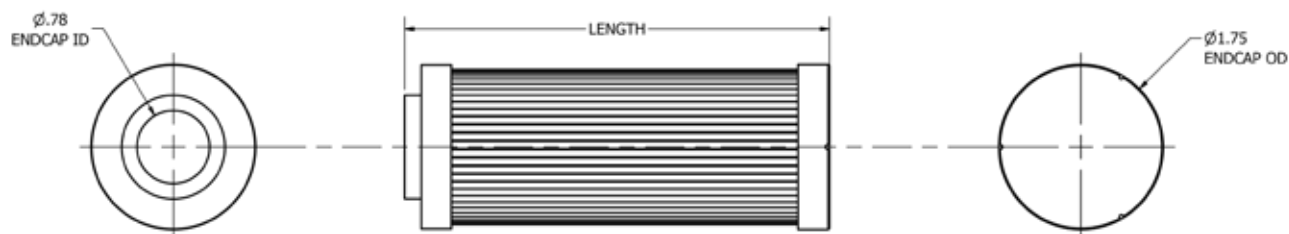
Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)		Media Type	Seal Type
TTNHC		5 = 5.28		1	74*	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		10 = 8.00		3	149*	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		*W = Stainless Steel Wire Mesh <small>Only available in nominally rated 25, 74, 149µm</small>	
				10			
				25			

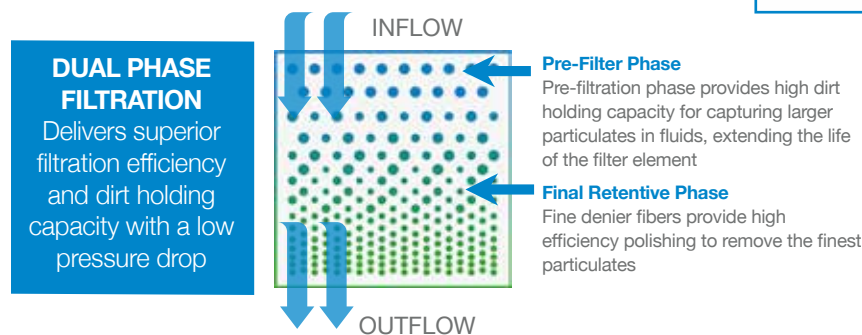
PART NUMBER EXAMPLE: TTNHC-5-3V = TTNHC (5 inch length, 3 micron, Viton)



## TTSFNHC Series

TTI's patented SmartMedia™ technology utilizes Dual Phase Microglass in parallel flow to increase dirt holding capacity and lower pressure drops.

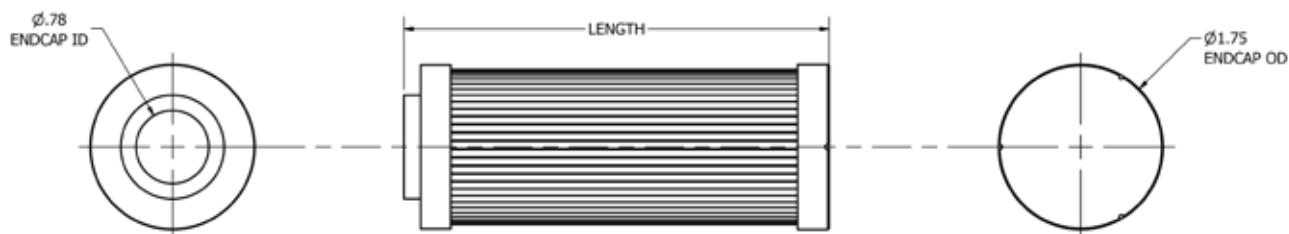
SmartMedia filters are Ideal for systems with cold start-ups and excel at fighting varying sizes of particulate contamination, high or fluctuating viscosity, and much more.



### PERFORMANCE

- 3000 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature

### Dimensions



### Part Number Builder

TTI PN	-	Length (inches)	-	Micron Rating (µm)	Media Type	Seal Type
TTSFNHC		5 = 5.28		1	(Omit) = Dual Phase Microglass <small>Standard option β1000, available in 1, 3, 6, 10, 25µm</small>	B = Buna
		10 = 8.00		3	SD = Static Dissipative <small>Viton seals only, available in 1, 3, 6, 10, 25µm</small>	V = Viton
				6		
				10		
				25		

PART NUMBER EXAMPLE: TTSFNHC-5-3V = TTSFNHC (5 inch length, 3 micron SmartFlow media, Viton)



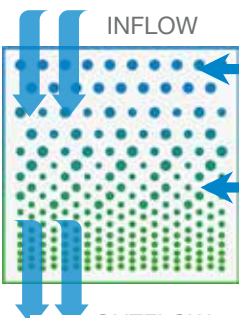
## Spin-On Elements

TTI's PowerGuard™ filter line leverages our proprietary DuoGlass media and world-class product design to ensure unparalleled filtration performance.

Manufactured in the USA and Germany, our Dual Phase Microglass technology provides Beta 1000 efficiencies with a built-in pre-filter layer to reduce initial pressure drops and extend the life of your filter elements.



**DUAL PHASE FILTRATION**  
 Delivers superior filtration efficiency and dirt holding capacity with a low pressure drop



### Pre-Filter Phase

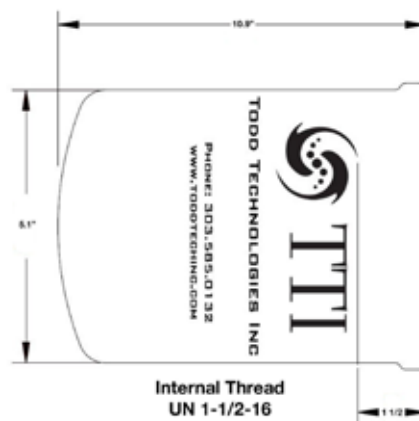
Pre-filtration phase provides high dirt holding capacity for capturing larger particulates in fluids, extending the life of the filter element

### Final Retentive Phase

Fine denier fibers provide high efficiency polishing to remove the finest particulates

### PERFORMANCE

- 150 PSID collapse pressure
- 50 PSID change out recommended
- 250°F (121°C) maximum operating temperature



TTI PN	-	Length (inches)	-	Micron Rating B1000	Media Type	Seal Type
TT75S		8 = 10.9		1	(Omit) = Dual Phase Microglass* *Standard option	B = Buna
				3	*CWA = Water Absorptive Only available in 25µm	V = Viton
				6		
				10		
				25		
				25CWA*		

PART NUMBER EXAMPLE: TT75S-8-3V = TT75S (8 length, 3 micron with viton seal type) \*CWA = Water Absorptive



# TTI Team Members Are Always Available to Help

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