

Replacement Element		C	E	-	F	G	H
		51	E		25S	E	N
Section C	Description						
Element Size	See Section C for Element Size	51					
	Element	E					
Section F	Description						
Micron/Material	See Section F for Micron Rating			25S			
Section G	Description						
Collapse Rating	See Section G for Collapse Rating					E	
Section H	Description						
O-Ring Material	See Section H for Collapse Rating						N

## If You Have Pressure or Flow Fluctuations!



Dynamic filtration is necessary when there are constant changes in either flow or pressure, along with or constant system vibration. The best filters to use in a dynamic application are fiber metal felt (FMF) elements. Fiber media filters are the best choice to catch and retain particulate matter in dynamic environments.

Dynamic Filters remove damaging contaminants that enter **hydraulic systems** and particulates that these systems produce during operation. The best feature of fiber metal felt elements are their ability to retain contaminants despite the operating environment.



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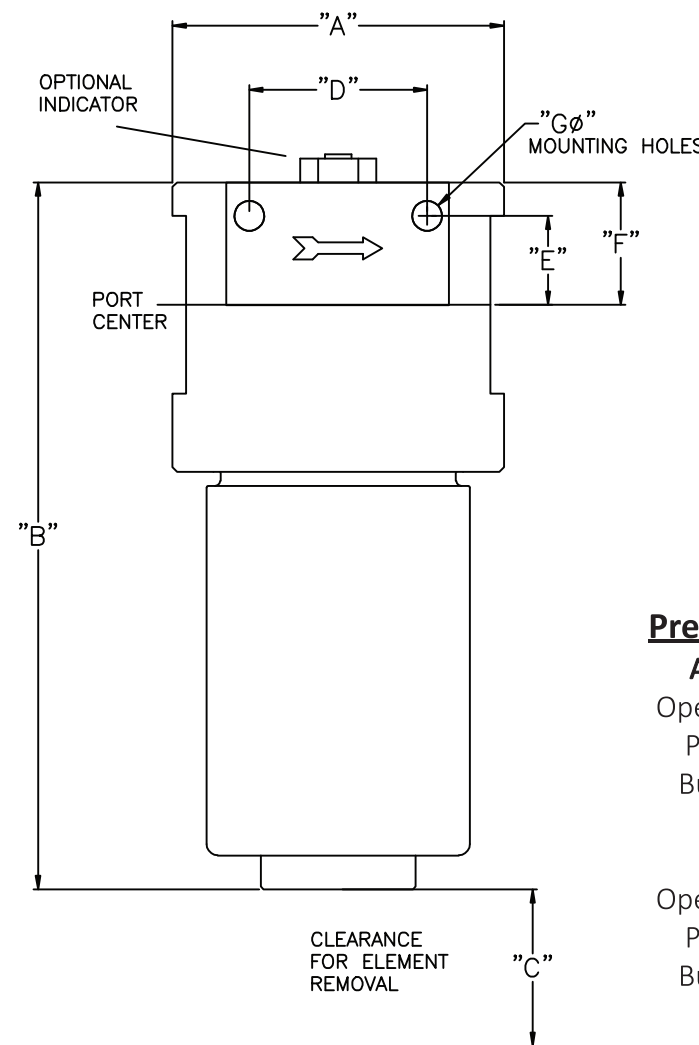


## 51 Series Tee-Type Filters (5K, 6K)



- Available in Aluminum (5K), 303 Stainless (6K) and 316 Stainless (6K)
- Various Micron Ratings Ranging from 0.2 to 1000 Available in Micro Glass, Stainless Steel, Powdered Sintered Stainless Steel and Fiber Metal Felt.
- Port Sizes Range from 1/4" to 1-1/2" in NPT, SAE, AS5202, Butt and Socket Weld
- For Flow Chart Data, Contact Factory**

TEE-TYPE FILTERS



### Optional Accessories

Bowl Drain: 1/4" FNPT and FSAE  
Gauge Ports: 1/4" FNPT and FSAE

DIMENSIONS								
A	GPM SIZE	B	C	D	E	F	G	EL. SIZE
3.75	10	7.95	4.8	2.0	1.0	1.38	.345	51E
3.75	24	10.64	7.4	2.0	1.0	1.38	.345	53E
5.0	50	14.20	9.9	2.25	1.38	1.88	.40	55E

### Pressure Ratings

#### Aluminum (5K)

Operating: 5,000 PSI  
Proof: 7,500 PSI  
Burst: 20,000 PSI

#### Stainless (6K)

Operating: 6,000 PSI  
Proof: 9,000 PSI  
Burst: 24,000 PSI

### Temperature Ratings

#### Elements

Micro Glass -70°F to +325°F  
Stainless -425°F to +1000°F  
Sintered -425°F to +1000°F  
Fiber Metal Felt -320°F to 1,000°F

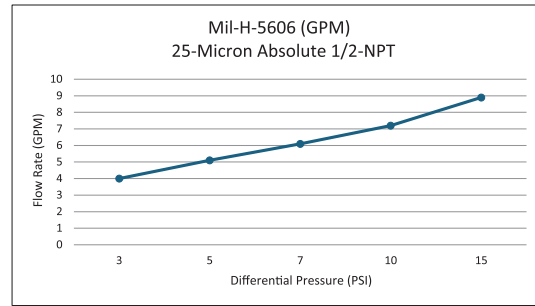
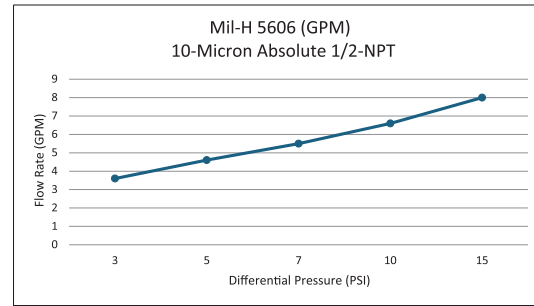
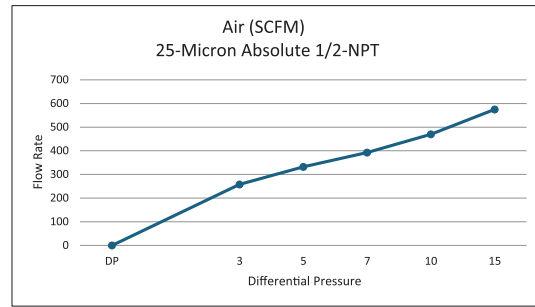
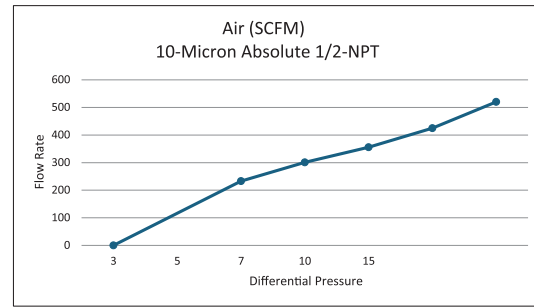
#### O-Rings

Buna -40°F to +250°F  
Viton -20°F to +400°F  
EPR -60°F to +400°F  
Kalrez -40°F to +550°F  
Teflon Encapsulated Viton -4°F to +400°F  
Teflon -425°F to 450°F

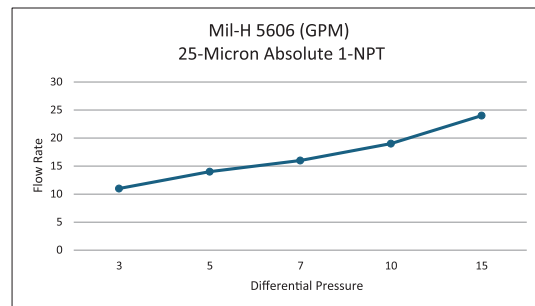
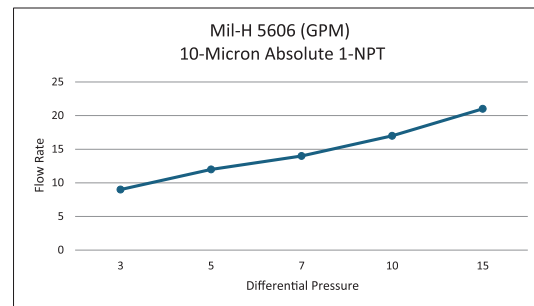
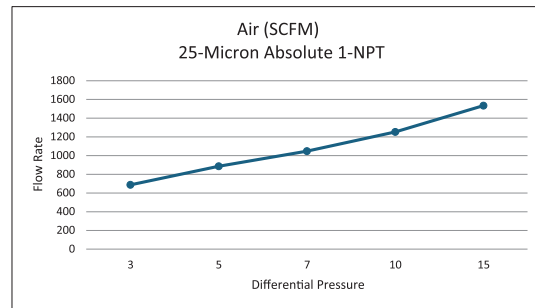
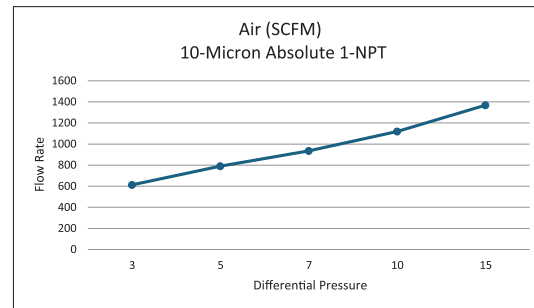


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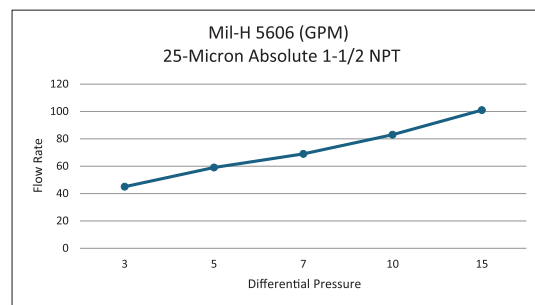
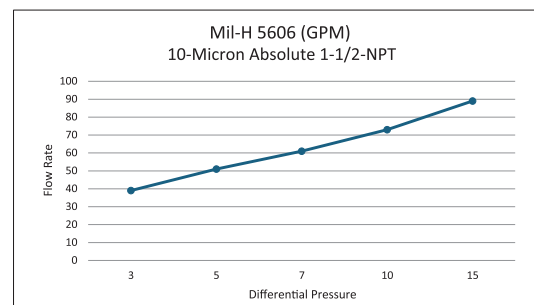
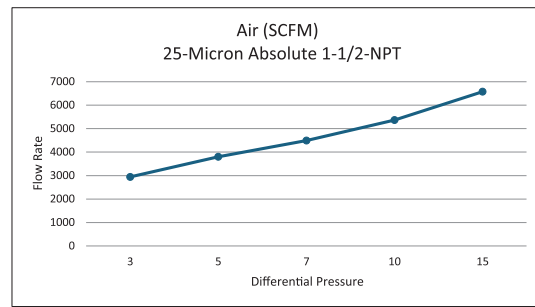
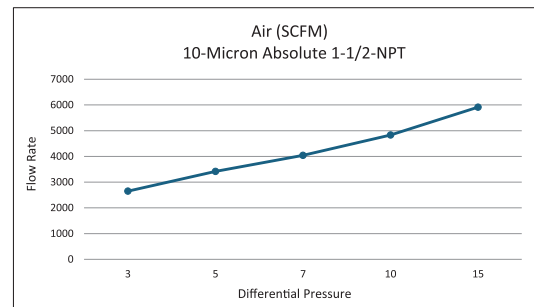
### 51E Flow Graphs



### 53E Flow Graphs



### 55E Flow Graphs



## 51 Series How to Order

	A	B	C	D	E	F	G	H	I	J	K			
<b>Filter Series</b>	51	S	-	10	4	S	-	25S	E	N	-	V	B2	B25
<b>Section A</b>	<b>Description</b>		<b>Code</b>											
<b>Filter Series</b>	Tee-Type Filters up to 6000 PSI		51 51											
<b>Section B</b>														
<b>Housing Material &amp; Pressure</b>	Aluminum 5000 PSI		A		A									
	303 Stainless 6000 PSI		S		S									
	316 SS - 6000 PSI		T		T									
<b>Section C</b>	<b>Element Size</b>													
<b>Flow - GPM/SCFM</b>	10 GPM / 300 SCFM		51E		10									
	24 GPM / 1200 SCFM		53E		24									
	50 GPM / 4000 SCFM		55E		50									
<b>Section D</b>														
<b>Port Size</b>	1/4"		51E & 53E		4								4	
	3/8"		51E & 53E		6								6	
	1/2"		51E & 53E		8								8	
	3/4"		51E & 53E		12								12	
	1"		51E, 53E & 55E		16								16	
	1 1/4"		55E		20								20	
1 1/2"		55E		24								24		
<b>Section E</b>	<b>Port Type</b>		<b>Port Size &amp; Flow</b>		<b>A</b>								<b>A</b>	
<b>Inlet/Outlet Type</b>	AS5202		1/4 to 1" 10 & 24-GPM		A								A	
	AS5202		1" to 1-1/2" 50-GPM		A								A	
	Butt Weld Per ASME B16-25		1/2 & 3/4" 10 & 24-GPM		BWXX								BWXX	
	Butt Weld Per ASME B16-23		1" to 1-1/2" 50-GPM		BWXX								BWXX	
	NPT Female		1/4 to 1" 10 & 24-GPM		P								P	
	NPT Female		1" to 1-1/2" 50-GPM		P								P	
	SAE J1926		1/4 to 1" 10 & 24-GPM		S								S	
	Socket Weld Per ASME B16-11		1/2 & 3/4" 10 & 24-GPM		SWXX								SWXX	
	Socket Weld Per ASME B16-11		1" to 1-1/2" 50-GPM		SWXX								SWXX	
	<b>Section F</b>	<b>Material</b>		<b>Micron/Nom</b>		<b>Micron/Abs</b>								
<b>Micron Rating/ Material</b>	316 Sintered SSTL		0.2		.2P								.2P	
	316 Sintered SSTL		0.7		.7P								.7P	
	316 Sintered SSTL		2		2P								2P	
	316 Sintered SSTL		5		5P								5P	
	Microglass		1		1M								1M	
	Microglass		3		3M								3M	
	Microglass		5		5M								5M	
	Microglass		10		10M								10M	
	Microglass		25		25M								25M	
	Fiber Metal Felt		3		3FMF								3FMF	
	Fiber Metal Felt		10		10FMF								10FMF	
	304 SSTL		2		10S								10S	
	304 SSTL		5		18S								18S	
	304 SSTL		10		25S								25S	
	304 SSTL		40		75S								75S	
304 SSTL		100		150S								150S		
<b>Section G</b>														
<b>Collapse Rating</b>	300 PSID Fiber Metal Felt Microglass		C								C			
	3250 PSID Fiber Metal Felt Microglass		D								D			
	4500 PSID Stainless Wire		E								E			
	2000 PSID 316 Sintered		F								F			
<b>Section H</b>														
<b>O-Ring Material</b>	Buna -40°F to +250°F		N								N			
	Viton® -20°F to +400°F		V								V			
	EPR -60°F to +400°F		E								E			
	Teflon® (Consult Factory) -425°F to +450°F		T								T			
	Kalrez® -40°F to +500°F		K								K			
	Teflon Encapsulated Viton -4°F to +400°F		S								S			
<b>Section I</b>														
<b>Optional Accessories</b>	Visual Indicator		V								V			
	1/4" NPT ΔP Ports		D2								D2			
	1/4" SAE ΔP Ports		D4								D4			
<b>Section J</b>														
<b>Optional Bowl Drain</b>	1/4" NPT		B2								B2			
	1/4" SAE		B4								B4			
<b>Section K</b>														
<b>Optional Bypass</b>	Insert Pressure Setting		B**								B**			
	**Default Setting is 50 PSID**													
Bypass is not available with ΔP Ports														