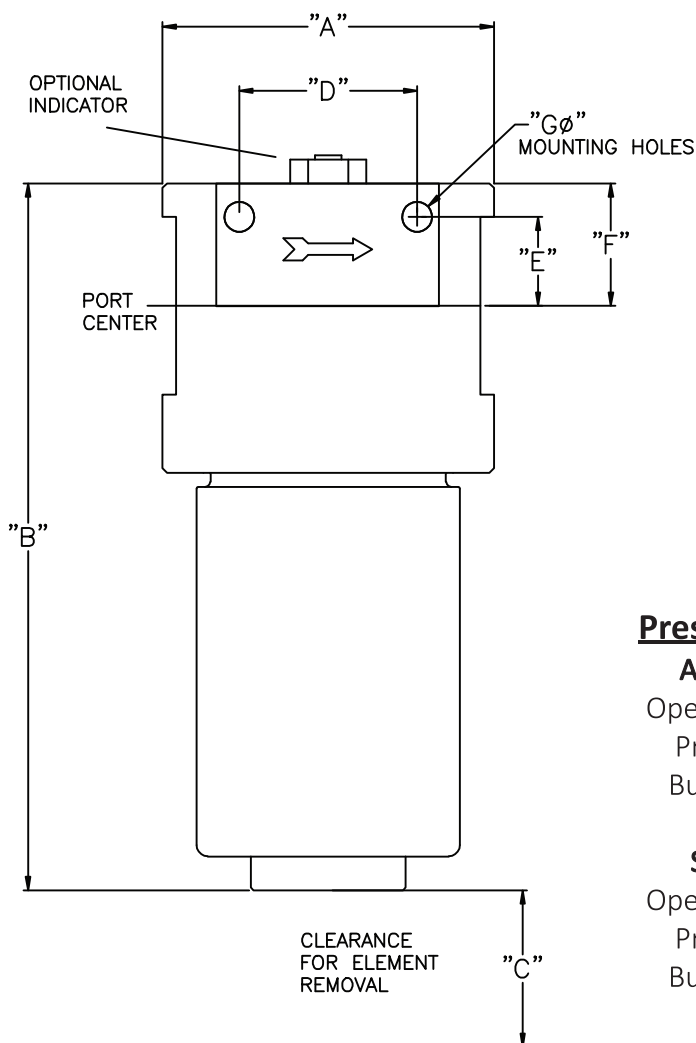


51 Series Tee-Type Filters (5K, 6K)



- 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

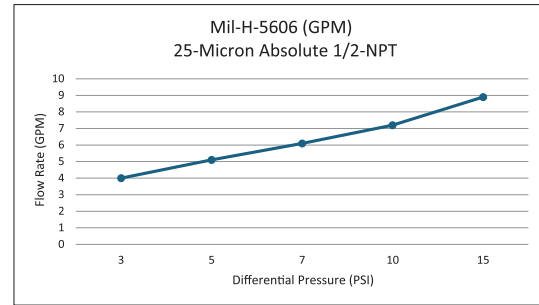
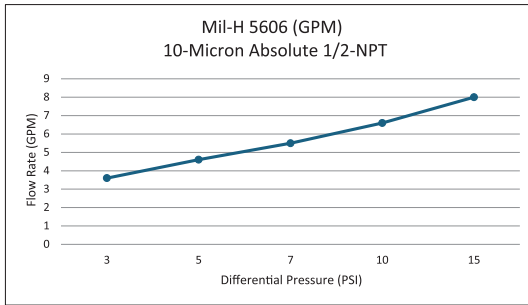
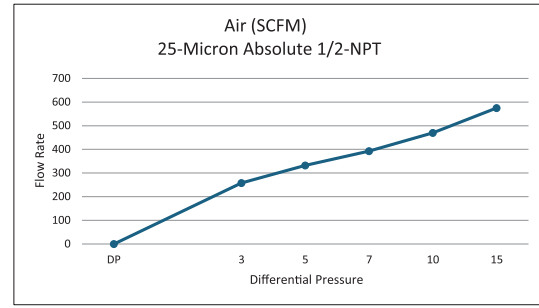
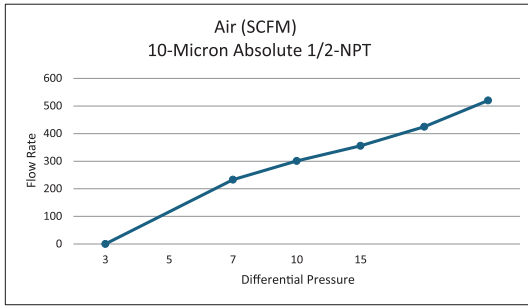
EPR -60°F to +400°F

Kalrez -40°F to +550°F

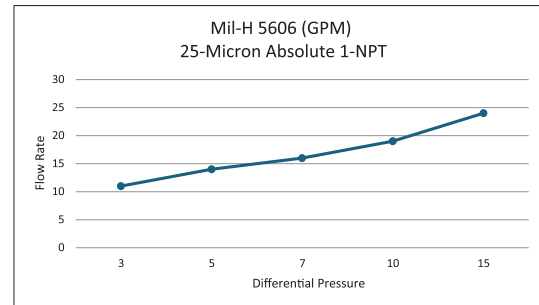
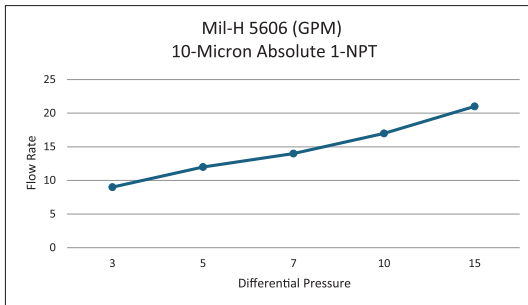
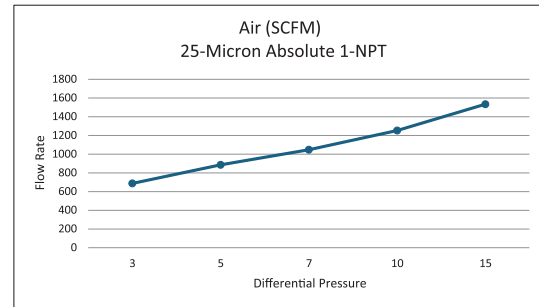
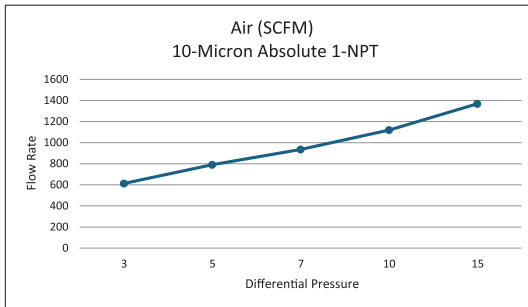
Teflon Encapsulated Viton -4°F to +400°F

Teflon -425°F to 450°F

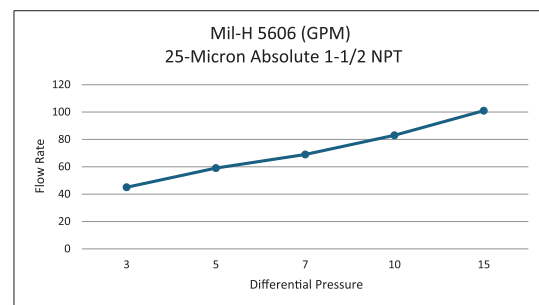
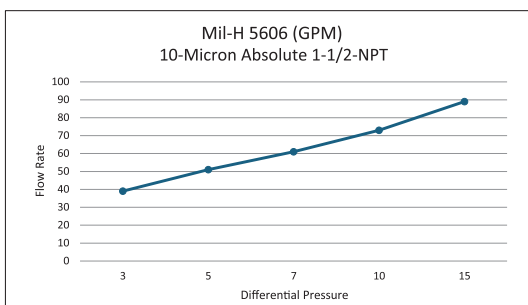
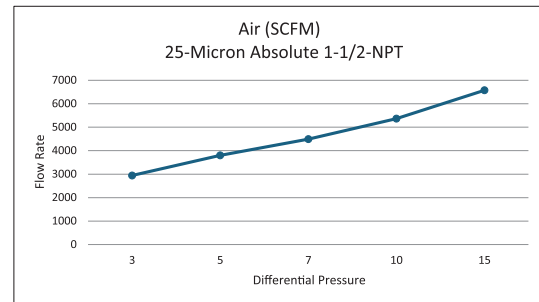
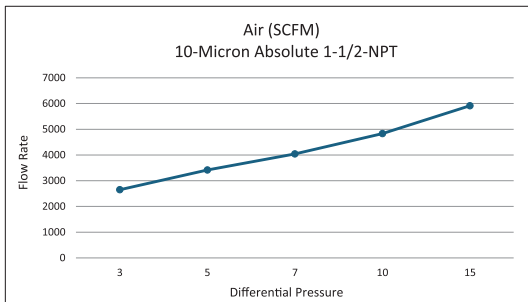
51E Flow Graphs



53E Flow Graphs



55E Flow Graphs



Optional

				A	B	C		D	E	F		G	H	I		J	K	
				51	S	-	10	4	S	-	25S	E	N	-	V	B2	B2S	
Section A		Description	Code															
Filter Series		Tee-Type Filters up to 6000 PSI	51	51														
Section B																		
Housing Material & Pressure		Aluminum 5000 PSI	A	A														
		303 Stainless 6000 PSI	S	S														
		316 SS - 6000 PSI	T	T														
Section C																		
		Element Size																
Flow - GPM/SCFM		10 GPM / 300 SCFM	51E	10	10													
		24 GPM / 1200 SCFM	53E	24	24													
		50 GPM / 4000 SCFM	55E	50	50													
Section D																		
Port Size		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													
Section E																		
		Port Type	Port Size & Flow															
Inlet/Outlet Type		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													
		Section F																
		Material	Micron/Nom	Micron/Abs														
Micron Rating/ Material		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	10	10S	10S												
		304 SSTL	5	18	18S	18S												
		304 SSTL	10	25	25S	25S												
		304 SSTL	40	75	75S	75S												
304 SSTL	100	150	150S	150S														
Section G																		
Collapse Rating		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														
Section H																		
O-Ring Material		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														
Section I																		
Optional Accessories		Visual Indicator	V	V														
		1/4" NPT ΔP Ports	D2	D2														
		1/4" SAE ΔP Ports	D4	D4														
Section J																		
Optional Bowl Drain		1/4" NPT	B2	B2														
		1/4" SAE	B4	B4														
Section K																		
Optional Bypass		Insert Pressure Setting	B**	**Indicates Pressure Setting														
		Default Setting is 50 PSID																
		Bypass is not available with ΔP Ports																

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



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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Please visit: www.chasefiltercompany.com to download 3D Models & Step Drawings