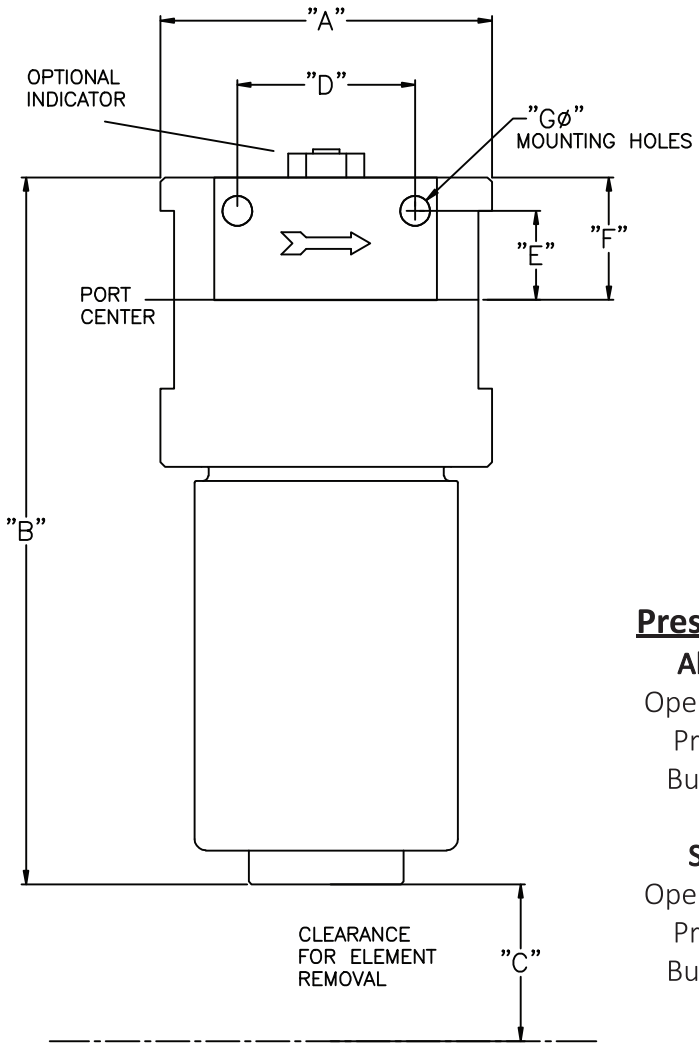
51 Series *Tee-Type Filters (5K, 6K)*

- 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

307 E Street, Hampton, VA 23661
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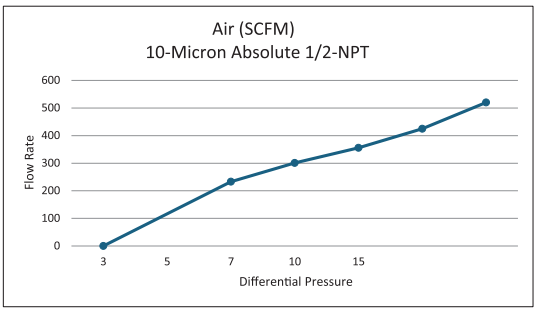
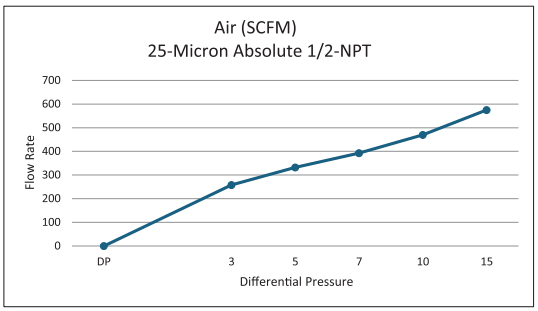
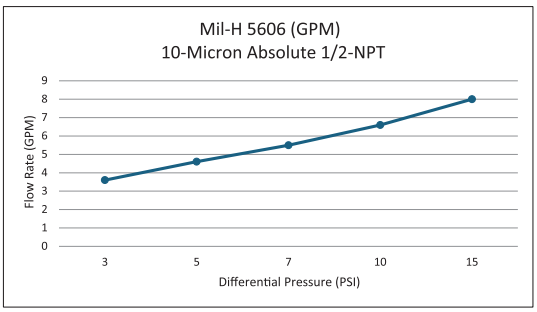
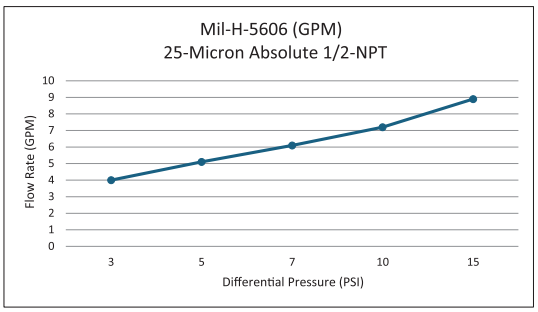
CHASE FILTERS & COMPONENTS

51E Flow Graphs

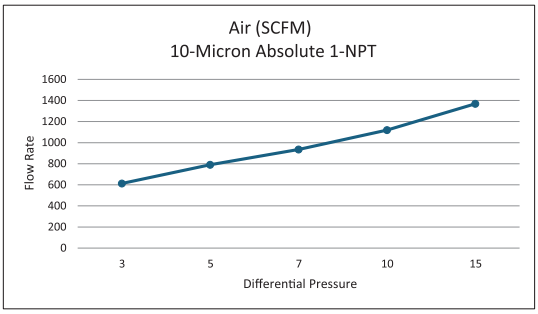


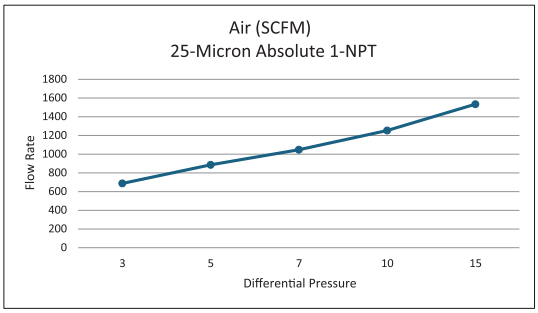


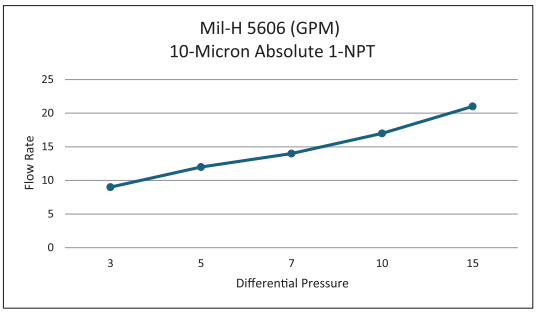


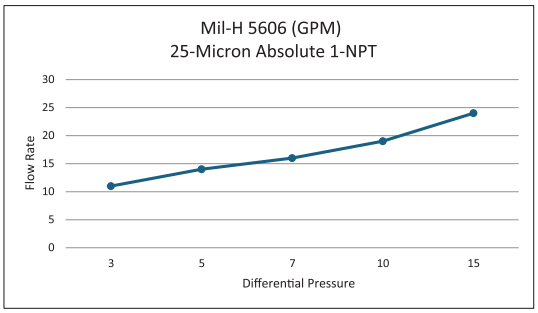


53E Flow Graphs

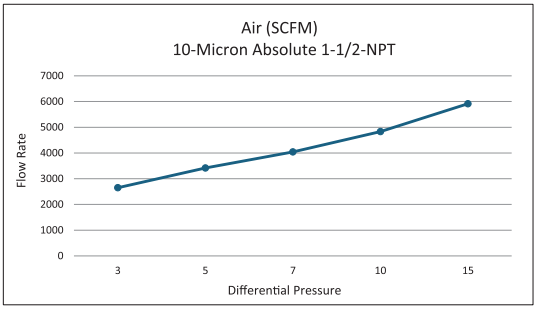


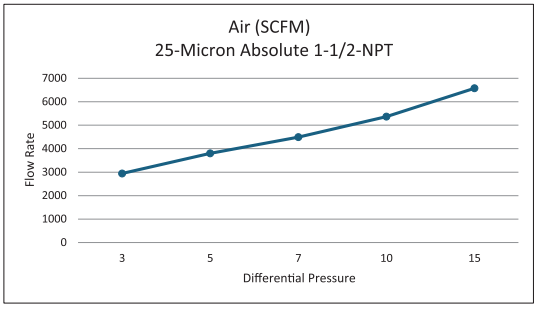


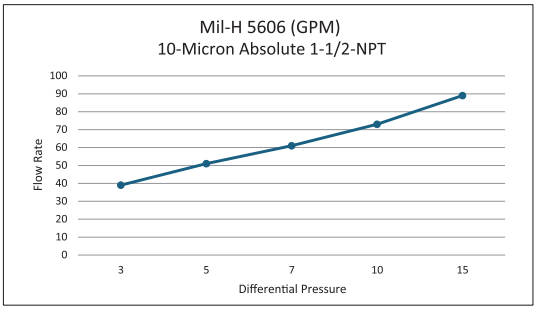


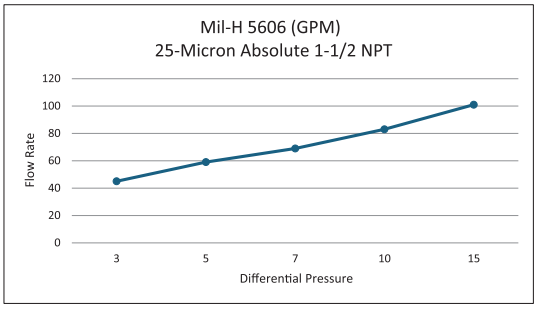


55E Flow Graphs









51 Series How to Order

Optional

	A	B		C	D	E		F	G	H		I	J	K
	51	S	-	10	4	S	-	25S	E	N	-	V	B2	B25

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	B**
	Default Setting is 50 PSID			
	Bypass is not available with ΔP Ports			

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

CHASE FILTERS
& COMPONENTS

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