

52 Series Tee-Type Filters (10K, 20K)

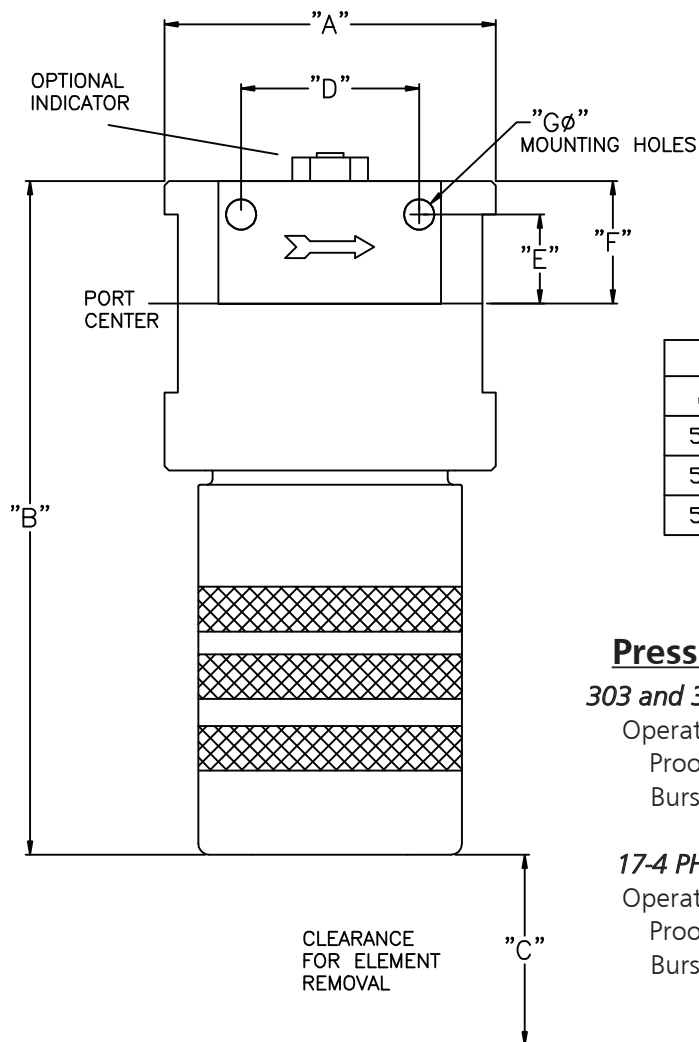


- ▶ Available in 303, 316 Stainless (10K) and 17-4 PH Stainless (20K)
- ▶ Flows up to 24 GPM or 1,200 SCFM
- ▶ Various Micron Ratings Ranging from .1 to 150 Available in Stainless Steel, Micro Glass and Porous Sintered Stainless Steel
- ▶ Port Sizes Range from 1/4" to 3/4" FNPT (10K only) and 1/4" to 3/4" MP Port and HP Ports

TEE-TYPE FILTERS

Optional Accessories

- Visual Indicator Setting: 40 PSID
- Bowl Drain: 1/4" FNPT (10K only) and 1/4" MP Ports
- Gauge Ports: 1/4" FNPT (10K only) and 1/4" MP Ports



DIMENSIONS								
A	GPM SIZE	B	C	D	E	F	G	EL. SIZE
5.0	10	9.60	5.90	2.25	1.38	1.88	.40	51E
5.0	16	11.60	8.00	2.25	1.38	1.88	.40	52E
5.0	24	12.48	8.88	2.25	1.38	1.88	.40	53E

Pressure Ratings

303 and 316 Stainless (10K)

Operating: 10,000 PSI
 Proof: 15,000 PSI
 Burst: 40,000 PSI

17-4 PH Stainless (20K)

Operating: 20,000 PSI
 Proof: 30,000 PSI
 Burst: 80,000 PSI

Temperature Ratings

Elements

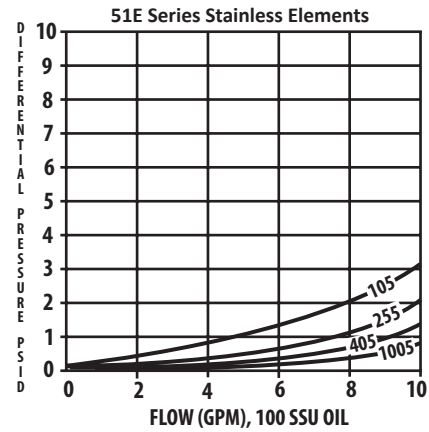
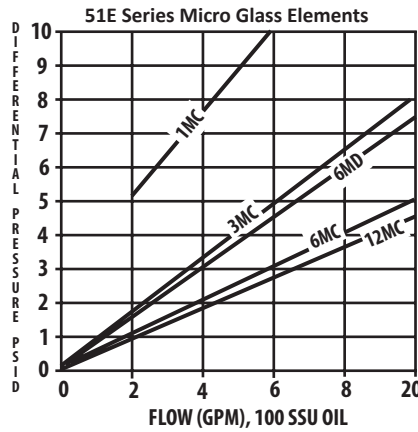
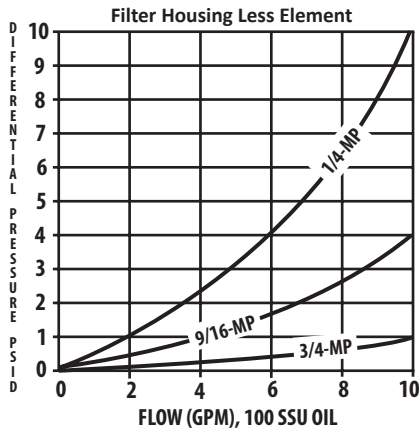
Micro Glass -70°F to +325°F
 Stainless -425°F to +1000°F
 Sintered -425°F to +1000°F

O-Rings

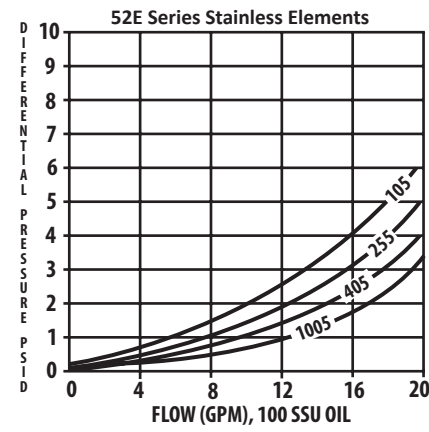
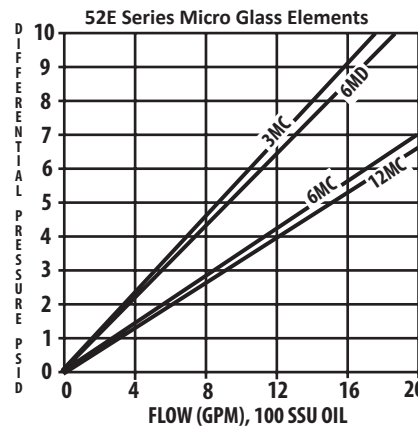
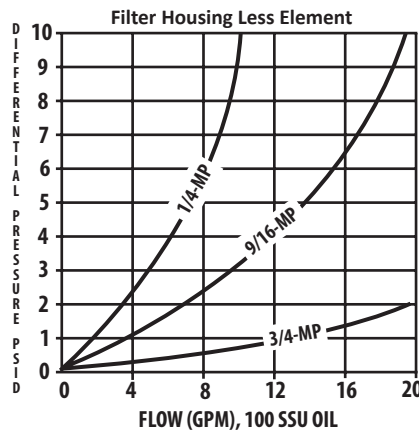
Buna -40°F to +250°F
 Viton -20°F to +400°F
 EPR -60°F to +400°F
 Kalrez -40°F to +550°F
 Teflon Encapsulated Viton -4°F to +400°F

Flow Data (Pressure Drop vs. Flow)

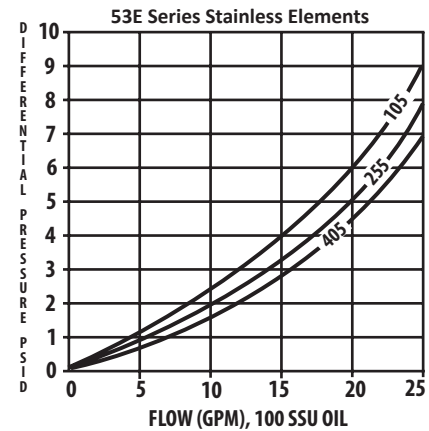
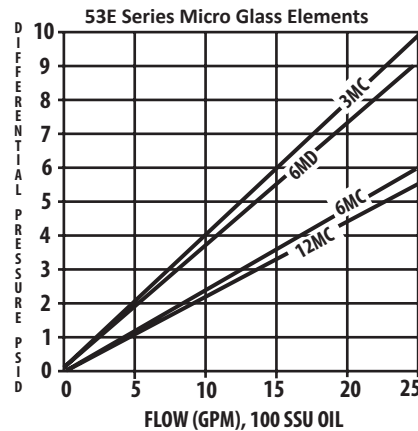
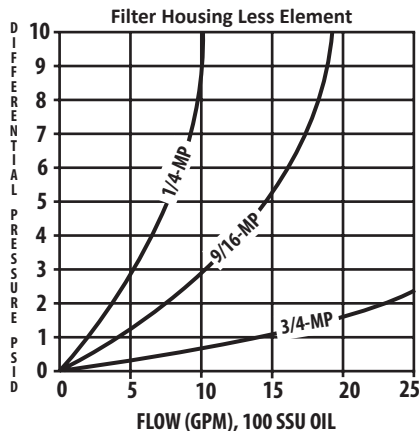
51E - Flow Data - 10 GPM Size



52E - Flow Data - 16 GPM Size



53E - Flow Data - 24 GPM Size



NOTE: Add pressure drop of the housing to that of the element to obtain total initial clean pressure drop of the assembly.
To determine pressure drop for a different viscosity and density fluid, use the following conversion factor:

$$\text{New } \Delta P = \Delta @ 100 \text{ SSU} \times \frac{\text{new viscosity, SSU}}{100 \text{ SSU}} \times \frac{\text{new spec. gravity}}{0.9}$$

52 Series How to Order

			Example Part Number										Optional			
			A	B	C	D	E	F	G	H	I	J				
			52-	P	-	10	4	MP	-	10S	E	N	-	V	B2	
Section A	Description	Code														
Filter Series	Tee-Type Filters up to 20,000 PSI	51														
Section B																
Housing Material & Pressure	303 Stainless 10,000 PSI	S														
	316 Stainless 10,000 PSI	T														
	17-4PH Stainless 20,000 PSI	P														
Section C	Element Size															
Flow - GPM/SCFM	10 GPM / 300 SCFM	51E	10													
	16 GPM / 600 SCFM	52E	16													
	24 GPM / 1200 SCFM	53E	24													
Section D																
Port Size	1/4"	4	4													
	3/8"	6	6													
	1/2"	8	8													
	9/16" *Medium Pressure Only	9	9													
	3/4"	12	12													
Section E																
Inlet/Outlet Type	Medium Pressure	MP											MP			
	NPT *10,000 PSI Only	P											P			
Section F	Material	Micron/Nom	Micron/Abs													
Micron Rating/ Material	316 Sintered SSTL	0.2	.2P													
	316 Sintered SSTL	0.7	.7P													
	316 Sintered SSTL	2	2P													
	316 Sintered SSTL	5	5P													
	Microglass 3250 PSID	1	1M													
	Microglass 3250 PSID	3	3M													
	Microglass 3250 PSID	5	5M													
	Microglass 3250 PSID	10	10M													
	Microglass 3250 PSID	25	25M													
	304 SSTL	2	10	10S												
	304 SSTL	5	18	18S												
	304 SSTL	10	25	25S												
	304 SSTL	20	40	40S												
	304 SSTL	40	75	75S												
	304 SSTL	75	100	100S												
	304 SSTL	100	150	150S												
	Section G															
	Collapse Rating	3250 PSID 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			
	Kalrez® -40°F to +550°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 *10,000 PSI Only	D2											D2			
	1/4" MP ΔP Ports	MP4											MP4			
Section J																
Optional Bowl Drain	1/4" NPT *10,000 PSI Only	B2											B2			
	1/4" MP	MP4											MP4			

Replacement Element

			1	2	3	4	5	
			51	E	-	10S	E	N
Section C	Description	Code						
Element Size	See Section C for Element Size	51						
	Element	E						
Section F								
Micron/Material	See Section F for Micron Rating		10S					
Section G								
Collapse Rating	See Section G for Collapse Rating		E					
Section H								
O-Ring Material	See Section H for O'Ring Material		N					

