

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

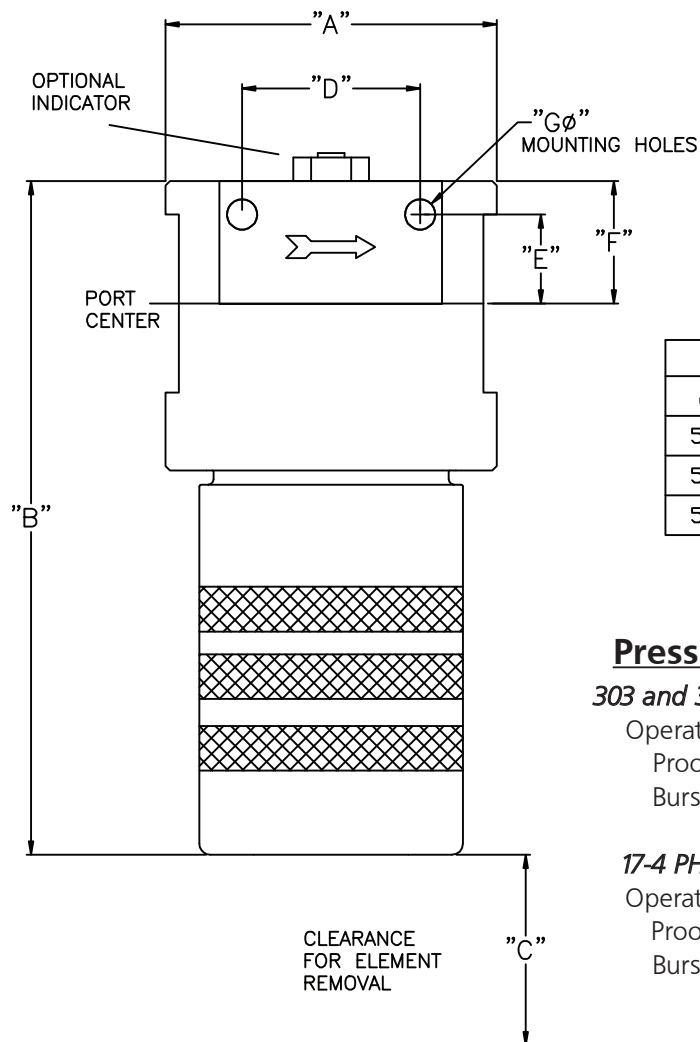
Relief Valve Setting: 50 PSID

Bowl Drain: 1/8" and 1/4" FNPT (10K only)

1/4" MP Ports

Gauge Ports: 1/8" and 1/4" FNPT (10K only)

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 -65°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

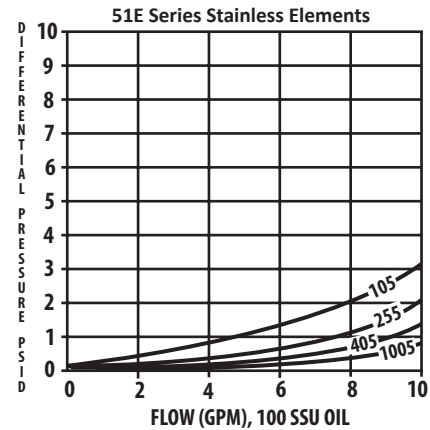
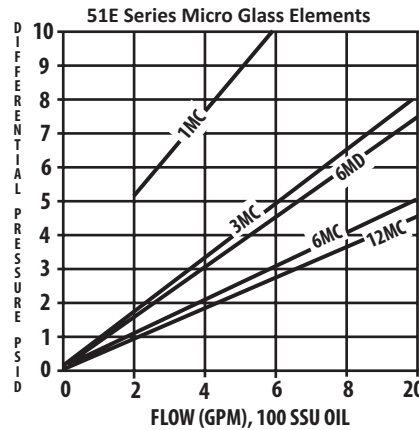
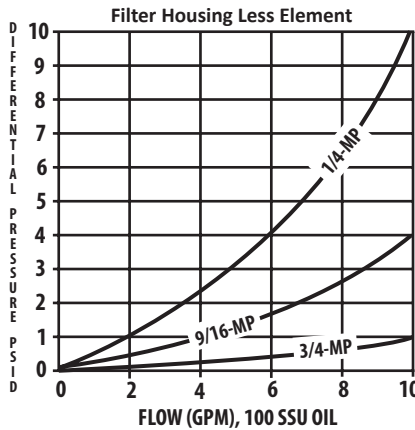
EPR -60°F to +400°F

Kalrez -40°F to +550°F

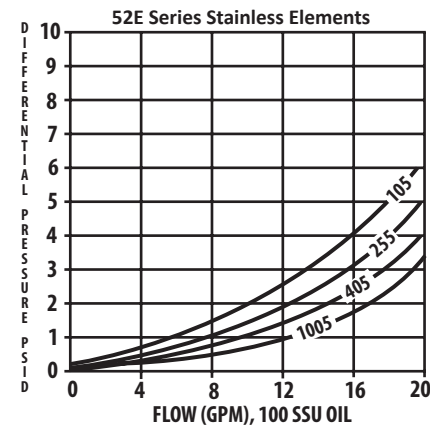
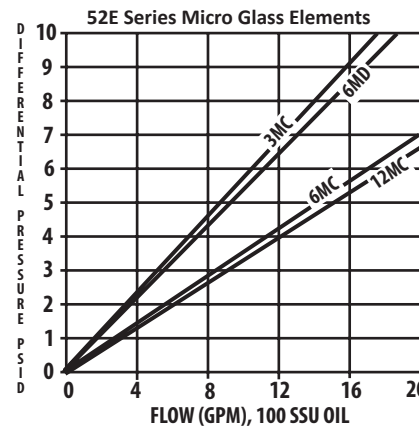
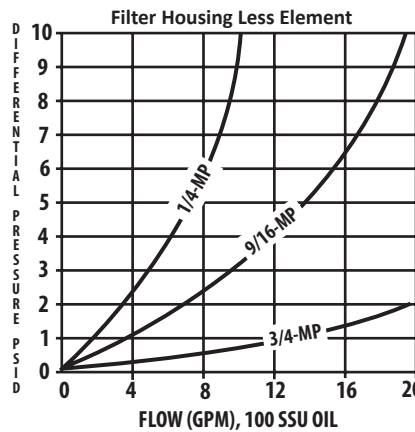
Teflon Encapsulated Viton -4°F to +400°F

Flow Data (Pressure Drop vs. Flow)

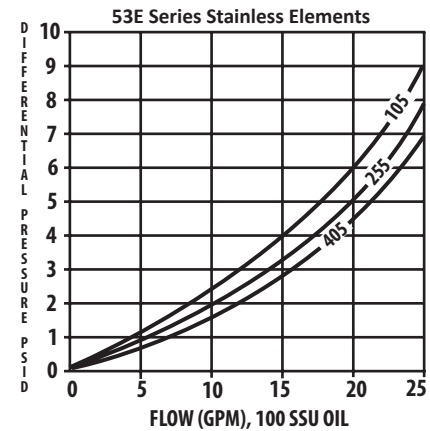
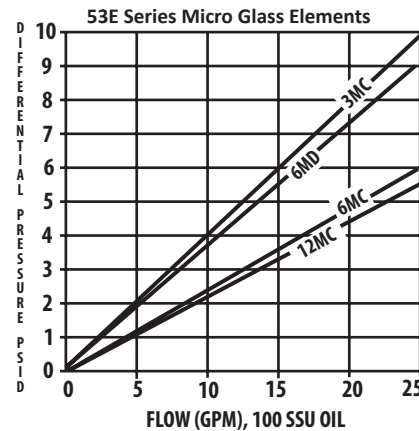
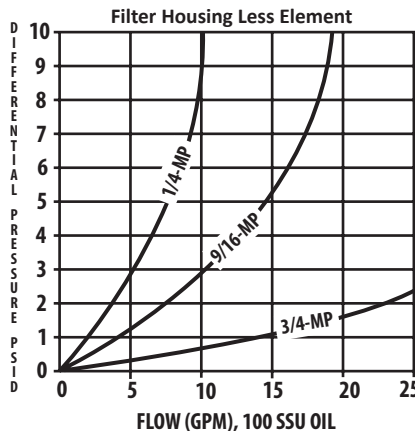
51E - Flow Data - 10 GPM Size



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

52 Series How to Order				Example Part Number										Optional				
				A	B		C	D	E		F	G	H		I	J	K	
				51	P	-	10	4	MP	-	10S	E	N	-	V	B2	B25	
Section A	Description	Code																
Filter Series	Tee-Type Filters up to 20,000 PSI	51	51															
Section B																		
Housing Material & Pressure	303 Stainless 10,000 PSI	S	S															
	316 Stainless 10,000 PSI	T	T															
	17-4PH Stainless 20,000 PSI	P	P															
Section C		Element Size																
Flow - GPM/SCFM	10 GPM / 300 SCFM	51E	10	10														
	16 GPM / 600 SCFM	52E	16	16														
	24 GPM / 1200 SCFM	53E	24	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																		
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	300 PSID Microglass	C	C														
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															
	Electrical Indicator	E	E															
	1/8" NPT ΔP Ports *10,000 PSI Only	D1	D1															
	1/4" NPT ΔP Ports *10,000 PSI Only	D2	D2															
	1/4" MP ΔP Ports	MP4	MP4															
Section J																		
Optional Bowl Drain	1/8" NPT *10,000 PSI Only	B1	B1															
	1/4" NPT *10,000 PSI Only	B2	B2															
	1/4" MP	MP4	MP4															
Section K																		
Optional Bypass	Insert Pressure Setting	B**	** Indicates Pressure Setting															
	Default Setting is 50 PSID																	
	Tested without leakage to 60,000 PSI																	

Replacement Element

Replacement Element		1	2	3	4	5	
		51	E	-	10S	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				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

