



*A more robust
and reliable
filter assembly*

F5E Series In-Tank Filter Assemblies

For Hydraulic Applications

Features

- 200 psi (14 bar) operating pressure
- Element collapse rating of 75 psid (5 bar)
- 25, 70, 100 & 160 gpm (95, 265, 379 & 606 lpm) nominal flow rates
- SAE Straight thread ports or SAE flanges available
- Elements Available with Glas-Tech® $\beta_{x(c)} \geq 1000$ media
- Optional DryPak™ moisture control media
- Standard 50 psid (3.4 bar) bypass valve

Technical Data

Pressure & Temperature Rating

Operating Pressure:	200 psi (14 bar)
Proof Pressure:	300 psi (21 bar)
Operating Temperature:	-45°F to +250°F (-43°C to +121°C)

Materials of Construction

Head:	Cast Aluminum
Lower Cover:	Anodized Aluminum

Bypass Options

Bypass Valve Setting:	50 psi (3.4 bar) \pm 10%
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Seal Material Options

Seal Material:	Buna
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Product Description

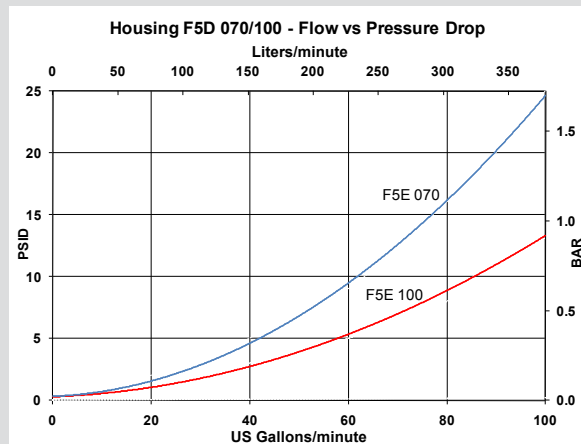
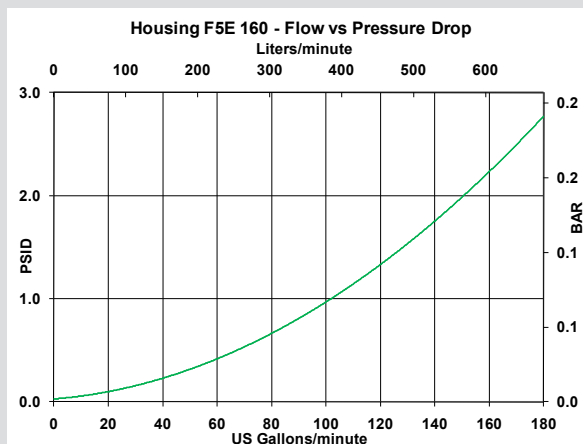
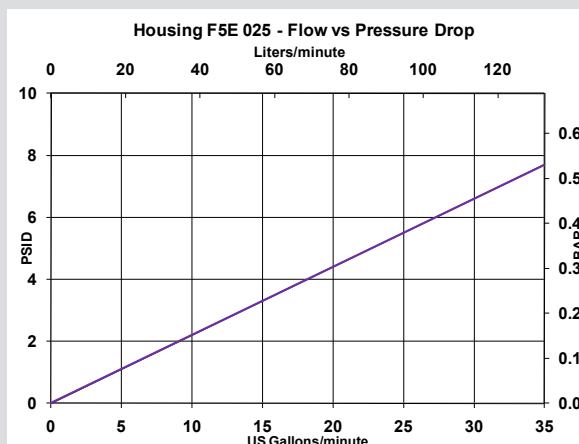
The F5E In-Tank Series is suited for most hydraulic applications but extremely popular on mobile equipment where space is often critical. The F5E series utilizes PTI F5E series elements. These elements are available in PTI's proprietary Glas-Tech® $\beta_{x(c)} \geq 1000$ and DryPak™ moisture control media. The unique top cover design provides for quick element replacement without removing the filter assembly from the tank.

Elements

PTI filter elements are manufactured with the highest quality materials. PTI filter elements feature multi-layer construction for increased dirt-holding capacity and low pressure drop. PTI elements provide cost-effective contamination control for the most demanding applications. All elements are tested to the latest industry standards including ISO 16889 procedure for multipass efficiency testing.

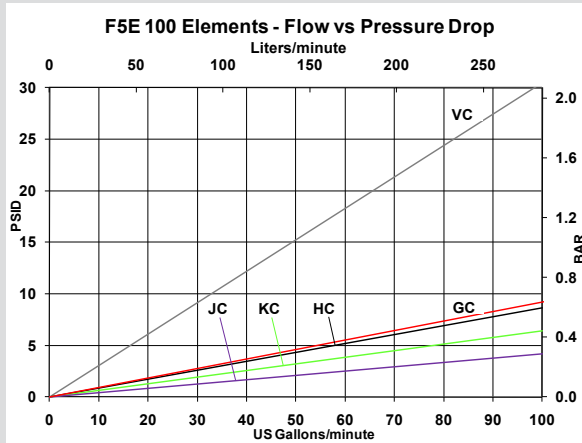
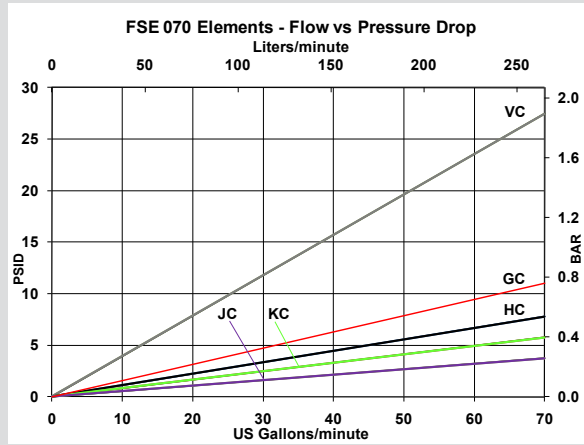
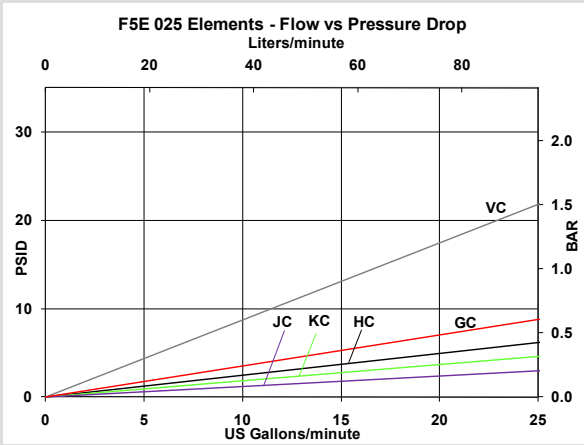
Filtration Rating			
Multipass Test results per old ISO 4572 and new ISO 16889 test procedures			
Particle size (x) in microns at which the Beta Ratio (β) is greater than or equal to the indicated value (200 or 1000).			
	Per ISO 4572	Per ISO 16889	
Code	$\beta_x \geq 200$	$\beta_{x(c)} \geq 200$	$\beta_{x(c)} \geq 1000$
V	1μm	4.2μm	4.2μm
G	3μm	5μm	7μm
H	6μm	7μm	9μm
K	12μm	12μm	15μm
J	23μm	21μm	24μm

Flow Rate/Pressure Drop Curves Housing



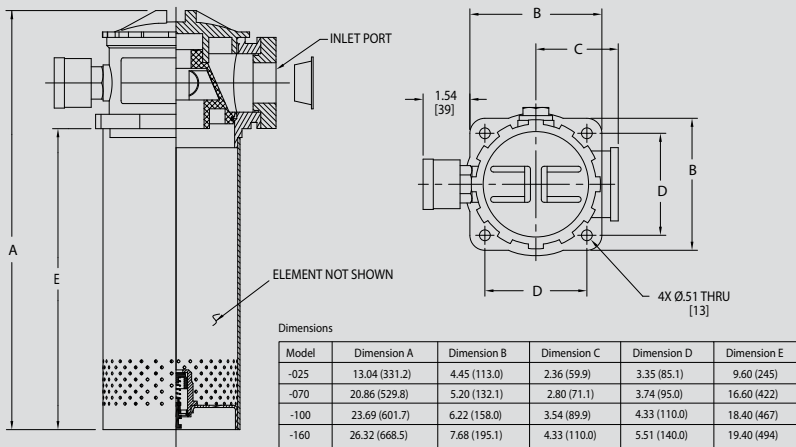
Pressure drop curves are based on 150 SUS (32 cSt) petroleum base hydraulic fluid of 0.9 S.G.
 Filter Assembly ΔP = Housing ΔP + Element ΔP

Flow Rate/Pressure Drop Curves Elements



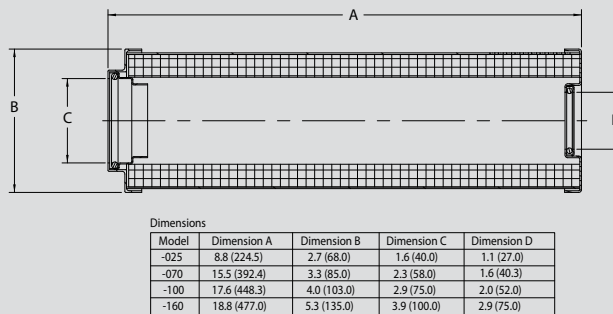
Assembly Dimensions*

* Dimensions in inches (mm)



Element Dimensions*

* Dimensions in inches (mm)



Ordering Information

Assembly:

F5E	XXX	-	X	X	-	X	X	X	X	X
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TBL 1 TBL 2TBL 3 TBL 4TBL 5 TBL 6 TBL 7TBL 8 TBL 9

Code	Nominal Flow
025	25 gpm (95 lpm)
070	70 gpm (265 lpm)
100	100 gpm (379 lpm)
160	160 gpm (606 lpm)

Code	Material
B	Buna

Code	Micron Rating	Media
N	No Element	

Code	Collapse Rating
N	No Element

Code	Port Style
M*	1" SAE (-16)
N**	1-1/4" SAE (-20)
4***	1-1/2" SAE Flange - Code 61
S****	2-1/2" SAE Flange - Code 61

Code	Type
5	Color Coded Pressure Gage

* Model F5E-025 only

** Model F5E-070 only

*** Model F5E-100 only

**** Model F5E-160 only

Code	Option
N	None

Code	Option
H	50 psid (3.4 bar) ± 10%

Code	Option
N	None

Element:

F5E	-	XXX	-	X	X	-	X	-	X
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TBL 1 TBL 2TBL 3 TBL 4 TBL 5

Code	Nominal Flow
025	025 gpm (95 lpm)
070	070 gpm (265 lpm)
100	100 gpm (379 lpm)
160	160 gpm (606 lpm)

Code	Micron Rating	Media
V	$\beta_{4.2(c)} \geq 1000$	Glas-Tech
G	$\beta_{7(c)} \geq 1000$	Glas-Tech
H	$\beta_{9(c)} \geq 1000$	Glas-Tech
K	$\beta_{15(c)} \geq 1000$	Glas-Tech
J	$\beta_{24(c)} \geq 1000$	Glas-Tech

Code	Collapse Rating
C	75 psid (5 bar)

Code	Material
B	Buna

Code	Collapse Rating
Blank	Standard Element
W	DryPak™ Configuration