



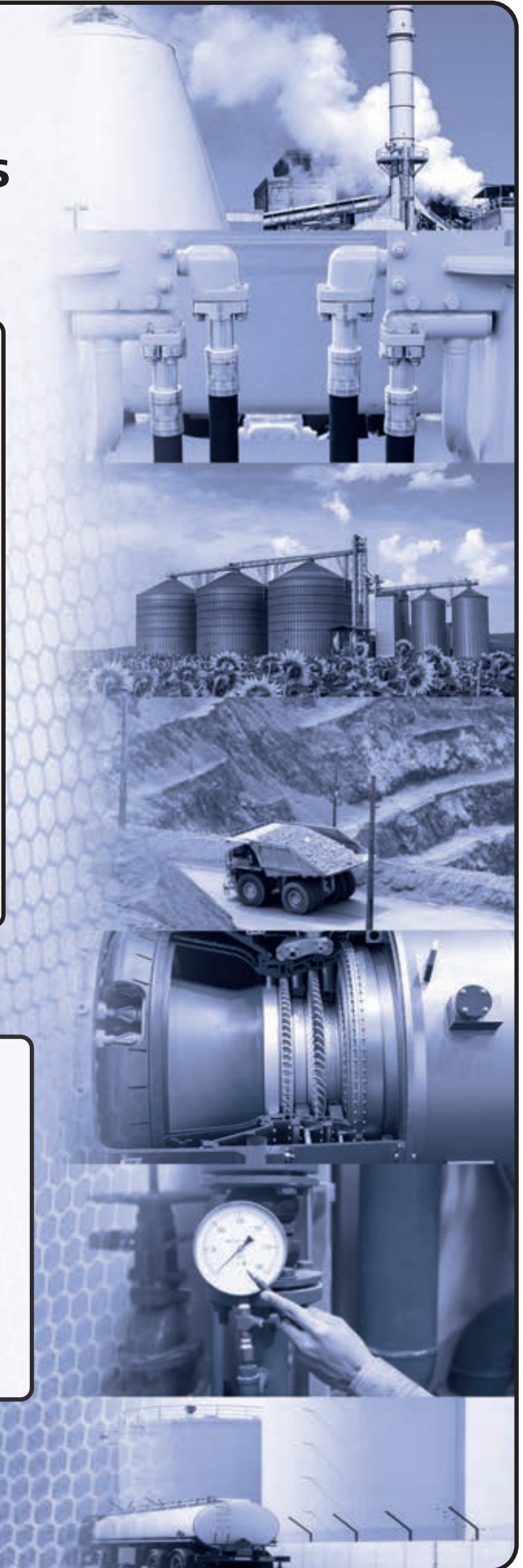
RePak[®] 50/70 (FSF) Series Filter Assemblies

For Hydraulic and Lube Oil Applications



Features

- 350 psi (24 bar) operating pressure
- Element collapse ratings of 150 psid (10 bar)
- 50 & 70 gpm (189 & 265 lpm) nominal flow rates
- Elements available with $\beta_{X(c)} \geq 1000$ Glas-Tech III[®] media
- Optional DryPak[®] moisture control media
- SAE straight thread or NPT ports



Technical Data

- Pressure & Temperature Rating
 - Operating Pressure: 350 psi (24 bar)
 - Proof Pressure: 525 psi (36 bar)
 - Burst Pressure: 1,000 psi (69 bar)
 - Operating Temperature: -45°F to +250°F (-43°C to +107°C)
- Materials of Construction
 - Head: Cast Aluminum
 - Bowl: Cast Aluminum
- Bypass Options
 - Bypass Valve Setting: 25 psid (1.7 bar) ±10%
- Differential Pressure Indicators
 - Visual Indicator: Bar Indicator 18 psid (1.2 bar) ±10%, self resetting
- Visual Electrical Indicator: Pressure Switch 18 - 20 psid, self resetting
Purchased separately as a kit
- Seal Material Options
 - Seal Material : Buna
Viton® (available separately as a kit)

Elements

PTI FSF SERIES filter elements are manufactured with the highest quality materials. PTI FSF SERIES filter elements feature multi-layer construction for increased dirt-holding capacity and low pressure drop. PTI FSF SERIES 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.

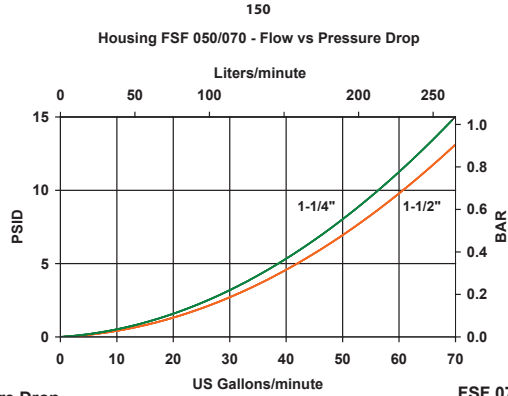
Filtration Rating

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).

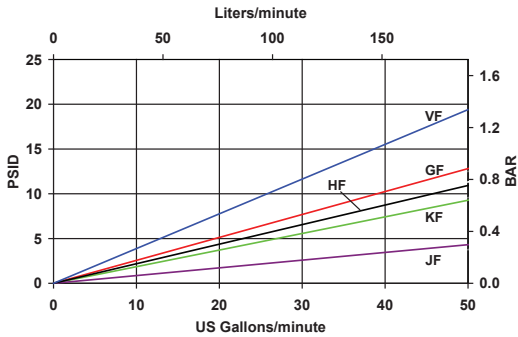
Code	Per ISO 4572	Per ISO 16889	
	$\beta_x \geq 200$	$\beta_{x(c)} \geq 200$	$\beta_{x(c)} \geq 1000$
V	1 μ m	4.2 μ m	4.2 μ m
G	3 μ m	5 μ m	7 μ m
H	6 μ m	7 μ m	9 μ m
K	12 μ m	12 μ m	15 μ m
J	23 μ m	21 μ m	24 μ m

FSF filter elements are also available with 10 μ m nominal water removal media.
Please refer to ordering information on back page.

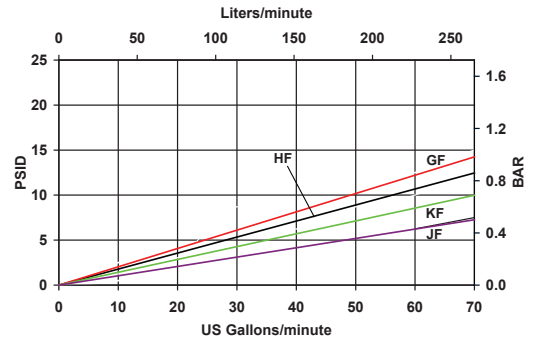
Flow Rate/Pressure Drop Curves



FSF 050 Elements - Flow vs Pressure Drop

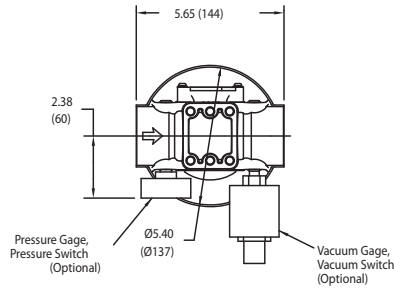


FSF 070 Elements - Flow vs Pressure Drop



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

Dimensions in Inches (mm)

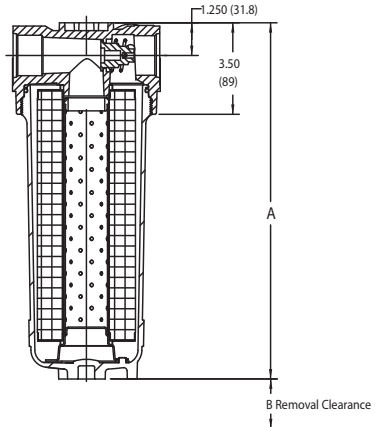


Dimensions

Nominal Flow	-050	-070
Dimension A	9.68 (246)	13.62 (346)
Dimension B	2.07 (53)	1.90 (48)

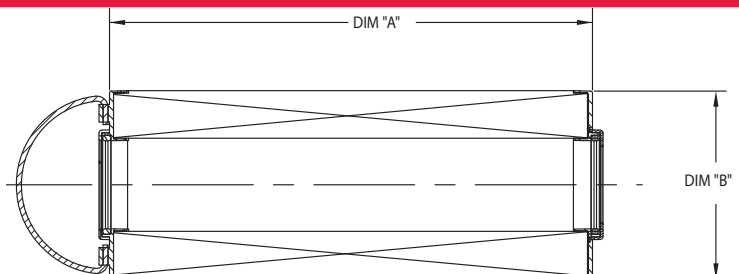
Filter Assembly (Housing & Element) Weight

Size	050	070
Weight	5.0 lbs (2.3 kg)	6.5 lbs (3.0 kg)



Element Dimensions in Inches (mm)

Model	-050	-070
Dimension A	6.2 (156.5)	9.6 (244.3)
Dimension B	3.8 (95.2)	3.8 (95.2)



Ordering Information

Assembly:

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

Note: FSF Assemblies are purchased without elements. Elements are purchased separately, see below.

Table 1 Size	
Code	Nominal Flow
050	50 gpm (189 lpm)
070	70 gpm (265 lpm)

Table 2 Filtration Rating		
Code	Micron Rating	Media
N	No Filter Element	

Table 3 Collapse	
Code	Collapse Rating
N	No Filter Element

Table 4 Seals	
Code	Material
B	Buna

Table 5 Port	
Code	Option
F	1-1/4" NPT
N	1-1/4" SAE (-20)

Table 6 Port Options	
Code	Option
0	None

Table 7 Gauge Options	
Code	Option
L	Visual 18 psid (1.2 bar) ±10% Self Resetting

Table 8 Bypass Valve	
Code	Option
F	25 psid (1.7 bar)

Table 9 Drain Port	
Code	Option
D	3/4" - 16 SAE

Element:

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

Table 1 Size	
Code	Nominal Flow
050	50 gpm (189 lpm)
070	70 gpm (265 lpm)

Table 2 Filtration Rating		
Code	Micron Rating	Media
V	$\beta_{4.2(c)} \geq 1000$	Glas-Tech III®
G	$\beta_{7(c)} \geq 1000$	Glas-Tech III®
H	$\beta_{9(c)} \geq 1000$	Glas-Tech III®
K	$\beta_{15(c)} \geq 1000$	Glas-Tech III®
J	$\beta_{24(c)} \geq 1000$	Glas-Tech III®
E	10 µm	Water Removal

Table 3 Collapse	
Code	Collapse Rating
F	150 psid (10 bar)

Table 4 Seals	
Code	Material
B	Buna
V	Viton®

Table 5 DryPak® Media	
Code	Material
Omit	Standard Element
W	DryPak® Configuration

Viton® is a registered trademark of DuPont Performance Elastomers

For more info email: fluidpower@ptitechnologies.com



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