



*A more robust
and reliable
filter assembly*

F8G Series Inline Type Hydraulic Filters

Low Pressure Hydraulic Filter Assemblies

Features

- 400 psi (26.7 bar) Operating Pressure
- Flows to 250 gpm (946 lpm)
- SAE 4-Bolt Flange Ports
- Available with $\beta_{X(c)} \geq 1000$ Glas-Tech[®] Media
- Optional Visual & Electrical Indicators

Product Description

The F8G Series filter assemblies are rated for 400 psi (26.7 bar) service and flows to 250 gpm (946 lpm). The filters come standard with SAE 4-bolt flange ports for leak-free operation. A variety of micron ratings and indicator options allow you to select the right filter for your application. F8G Filters use PTI's Glas-Tech Media with Beta 1,000 (ISO 16889) filtration ratings providing high performance cost effective contamination control for the most demanding applications.



F8G Series Inline Type Hydraulic Filters

Technical Data

Pressure & Temperature Rating:

Operating Pressure:	400 psi (26 bar)
Proof Pressure:	600 psi (41 bar)
Burst Pressure:	800 psi (55 bar)
Operating Temperature:	-40 °F to +250 °F (-40 °C to +121 °C)

Materials of Construction:

Head:	Aluminum Alloy
Bowl:	Aluminum Alloy

Bypass Options:

Bypass Valve Setting:	25 psid (1.7 bar) ±10%
	50 psid (3.5 bar) ±10%
	No Bypass

Differential Pressure Indicators:

Visual Indicator :	18 psid (1.2 bar) ±10% activation, manual reset
	32 psid (2.2 bar) ±10% activation, self resetting
Electrical Indicator:	32 psid (2.2 bar) ±10% activation
	18 psid (1.2 bar) ±10% activation
	Max Voltage 110/220 VAC, SPDT NO or NC

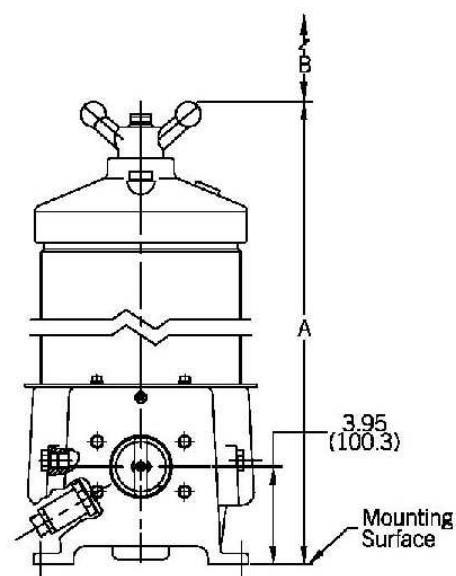
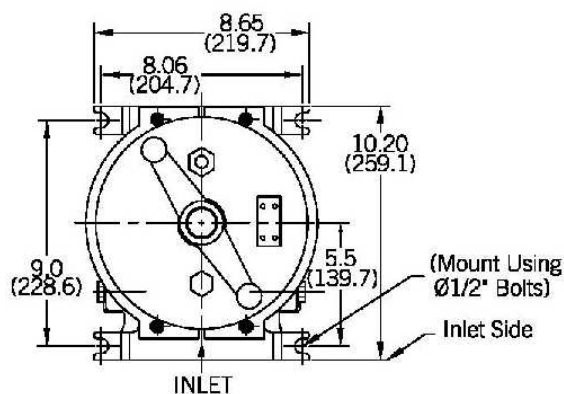
Seal Material Options:

- Buna
- Viton

Filter Assembly (Housing & Element) Weight:

Size	150	250
Weight	57 lbs (25.8 kg)	85 lbs (38.5 kg)

Dimensions*



Nominal Flow	-150	-250
Dimension A	27.0 in (685.8mm)	49.1 in (1247.4mm)
Dimension B	16.5 in (419.1mm)	38.0 in (965.2mm)

* Dimensions in inches (mm)



Elements

Glas-Tech - High Performance Micro-Fiberglass Media

F8G filter assemblies incorporate P83, DP83, and RP83 series filter elements and are available in V, G, H, K and J medias.

These elements use PTI's proven Glas-Tech micro-fiberglass media with a multi-layer construction for increased dirt-

holding capacity and low pressure drop providing cost-effective contamination control for the most demanding applications. PTI filters are tested to the latest industry standards including ISO 16889 procedure for multipass efficiency testing.

Filtration Rating

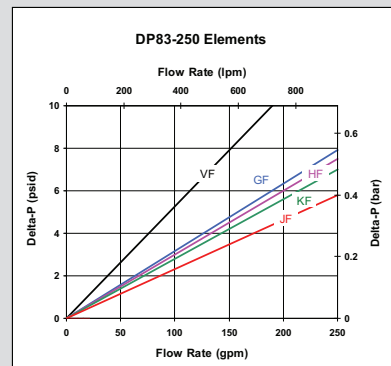
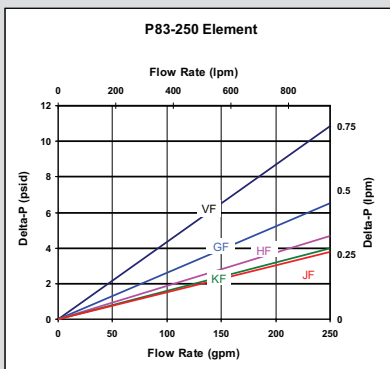
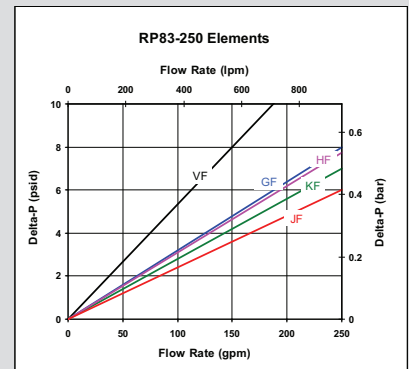
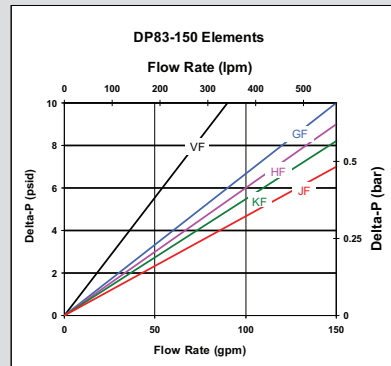
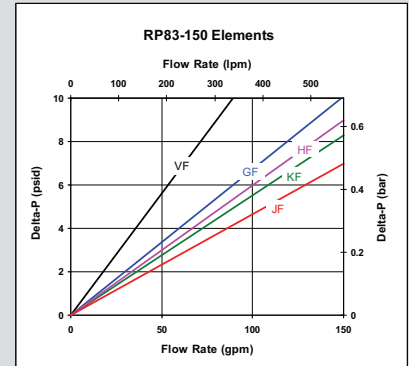
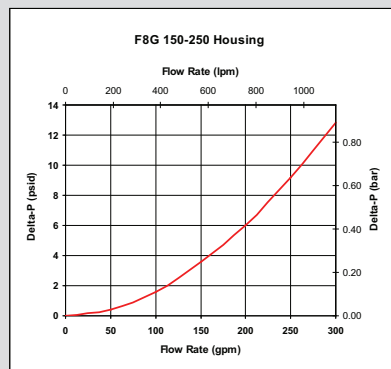
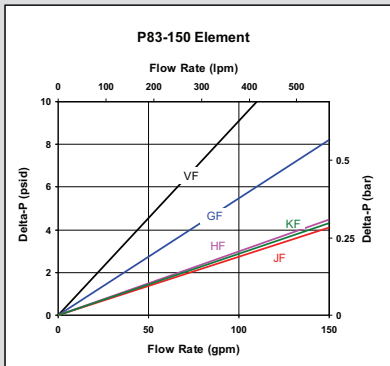
Multipass Test results per old ISO 4572 and new ISO 16889 test procedures
Particle size (x) in microns at which the Beta Ratio (β) is greater than or equal to the indicated value (200 or 1000).

Media	Per ISO 45729	Per ISO 16889	
	$\beta_x \geq 200$	$\beta_{x(c)} \geq 200$	$\beta_{x(c)} \geq 1000$
V	1	4.2	4.2
G	3	5	7
H	6	7	9
K	12	12	15
J	23	21	24

Flow Rate/Pressure Drop Curve

Pressure drop curves are for clean elements using 150 SUS (32 cSt) petroleum base hydraulic fluid of 0.9 S.G.

Filter Assembly ΔP = Housing ΔP + Element ΔP



Ordering Information

Assembly

F8G	XXX	X	X	-	X	S	O	X	X	X
TBL 1	TBL 2	TBL 3	TBL 4	TBL 5	TBL 6	TBL 7	TBL 8	TBL 9		

Table 1 Size	
Code	Nominal Flow
150	150 gpm (567 lpm)
250	250 gpm (946 lpm)

Table 2 Filtration Rating		
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
N	No Filter Element	

Table 3 Collapse	
Code	Collapse Rating
F	150 psid (10.3 bar)
N	No Filter Element

Table 4 Seals	
Code	Material
B	Buna
V	Viton

Table 5 Port	
Code	Option
S	2-1/2" SAE Flange Code 61

Table 6 Sample Valve	
Code	Option
O	None

Table 7 Indicator	
Code	Option
P	Boss Plugged
Q	Visual 32 psid (2.2 bar)
X	Visual 18 psid (1.2 bar)
U	Brad. Harrison Elec 32 psid (2.2 bar)
V	Brad. Harrison Elec 18 psid (1.2 bar)
Y	Visual & Elec 32 psid (2.2 bar)
Z	Visual & Elec 18 psid (1.2 bar)

Table 8 Bypass	
Code	Option
F	25 psid (1.7 bar)
H	50 psid (3.5 bar)
N	None

Table 9 Drain & Vent	
Code	Option
X	Drain & Vent Ports

Element

XXXX	XXX	-	X	F	-	X
TBL 1	TBL 2	TBL 3	TBL 4	TBL 5		

Table 1 Models	
Code	Model
P83	Standard Pleat Element
DP83	Deep Pleat Element
RP83*	Replaceable Pleat Pack Element

Table 2 Size	
Code	Nominal Flow
150	150 gpm (567 lpm)
250	250 gpm (946 lpm)

Table 3 Filtration Rating		
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

Table 4 Collapse	
Code	Collapse Rating
F	150 psi (10 bar)

Table 5 Seals	
Code	Material
B	Buna
V	Viton



PTI Technologies, Inc.
501 Del Norte Boulevard
Oxnard, California 93030

(800) 331-2701
(805) 604-3700

