



# F8G Series In-line Type Hydraulic Filter Assemblies

Low Pressure Hydraulic Filter Assemblies

## Features

- 400 psi (28 bar) operating pressure
- 150 & 250 gpm (568 & 946 lpm) nominal flow rates
- Elements available with  $\beta_{x(C)} \geq 1000$  Glas-Tech® media
- SAE 4-Bolt flange ports
- Optional visual & electrical indicators

## Technical Data

### Pressure & Temperature Rating

Operating Pressure:	400 psi (28 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 (3.4 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

Seal Materials:	Buna
	Viton®

*A more robust  
and reliable  
filter assembly*

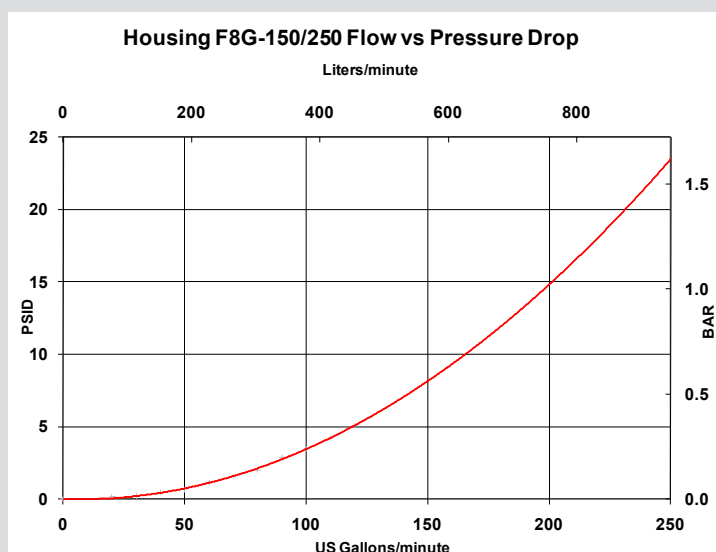
## Elements

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.

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

The PTI Technologies F8G series of low pressure hydraulic filter assemblies utilize P83, DP83 or RP83 Series filter elements. Please refer to the appropriate filter element brochure for flow vs. pressure drop curves.

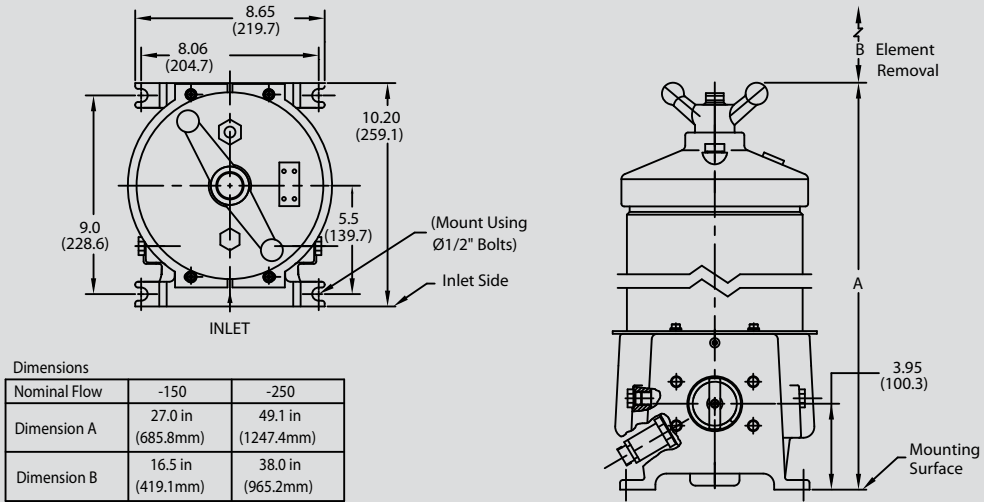
## Flow Rate/Pressure Drop Curves



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

## Dimensions\*

\* Dimensions in inches (mm)



## Filter Assembly Weight

**Filter Assembly (Housing & Element) Weight**

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

## Ordering Information

### Assembly:

F8G	XXX	X	X	-	X	X	O	X	X	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 (568 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	None	

**Table 3 Collapse**

Code	Collapse Rating
F	150 psid (10 bar)
N	No Filter Element

**Table 4 Seals**

Code	Material
B	Buna
V*	Viton®

**Table 5 Ports**

Code	Option
S	2-1/2" SAE 4-Bolt Flange

**Table 6 Indicators**

Code	Option
P	Boss Plugged
Q	Visual 32 psid
X	Visual 18 psid
U	Electrical 32 psid*
V	Electrical 18 psid*
Y	Visual & Electrical 32 psid
Z	Visual & Electrical 18 psid

\* Seals in Diverter Valve are Buna on all part numbers.  
Viton® is a registered trademark of DuPont Performance Elastomers

\* w/ Brad Harrison (Automotive Standard)

**Table 7 Bypass**

Code	Option
F	25 psid (1.7 bar) ± 10%
H	50 psid (3.4 bar) ± 10%
N	No Bypass

**Table 8 Options**

Code	Option
X	Vent & Drain

**Table 9 Element Options**

Code	Option
Blank	Standard Element
DP	Deep Pleat Element
RP	*RePak Element

\* RePak utilizes a replaceable filter element with a reusable center tube assembly.

### Element:

XXXX	XXX	-	X	X	-	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 (568 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

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**Table 4 Collapse**

Code	Collapse Rating
F	150 psid (10 bar)

**Table 5 Seals**

Code	Material
B	Buna
V	Viton®

