



*A more robust  
and reliable  
filter assembly*

## F8D Series Inline Type Hydraulic Filters

*Low Pressure Hydraulic Filter Assemblies*

### Features

- 150 psi (10.2 bar) Operating Pressure
- Flows to 120 gpm (454 lpm)
- RePak® (Replaceable Pleat Pack) Element
- NPT or ANSI Flange Ports
- Available with  $\beta_{x(c)} \geq 1000$  Glas-Tech® Media
- Optional Visual & Electrical Indicators

### Product Description

For low pressure hydraulic and lube oil applications that require both highly efficient and cost effective filtration, the ideal solution is PTI's F8D Series filter assemblies. F8D Series filters are rated for flow rates up to 120 gpm and pressures up to 150 psi. The filter assemblies utilize PTI's RePak® (replaceable pleat pack) elements with Glas-Tech® media, resulting in both high performance and the best possible value. F8D Series filters are available in several micron ratings.



# F8D Series Inline Type Hydraulic Filters

## Technical Data

### Pressure & Temperature Rating:

Operating Pressure:	150 psi (10.2 bar)
Proof Pressure:	225 psi (15.5 bar)
Burst Pressure:	450 psi (31 bar)
Operating Temperature:	-65 °F to +250 °F (-54 °C to +121 °C)

**Materials of Construction:** Steel

### Bypass Options:

Bypass Valve Setting: 50 psid (3.5 bar) ±10%

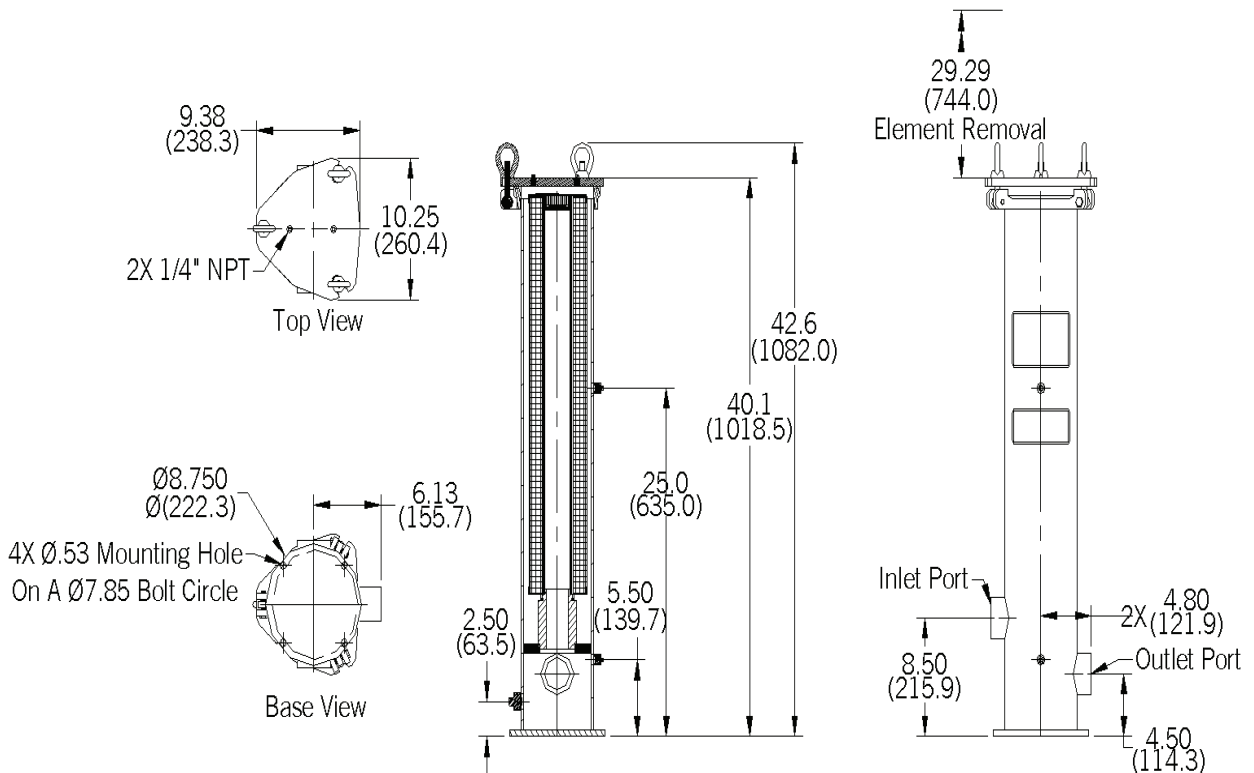
### Seal Material Options:

- Buna
- Viton

### Filter Assembly (Housing & Element) Weight:

Size	120
Weight	82 lbs (37 kg)

## Dimensions\*



\* Dimensions in inches (mm)

## Elements

### Glas-Tech - High Performance Micro-Fiberglass Media

F8D filter assemblies incorporate F8D series filter elements and are available in V, G, H, K and J medias. F8D series 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

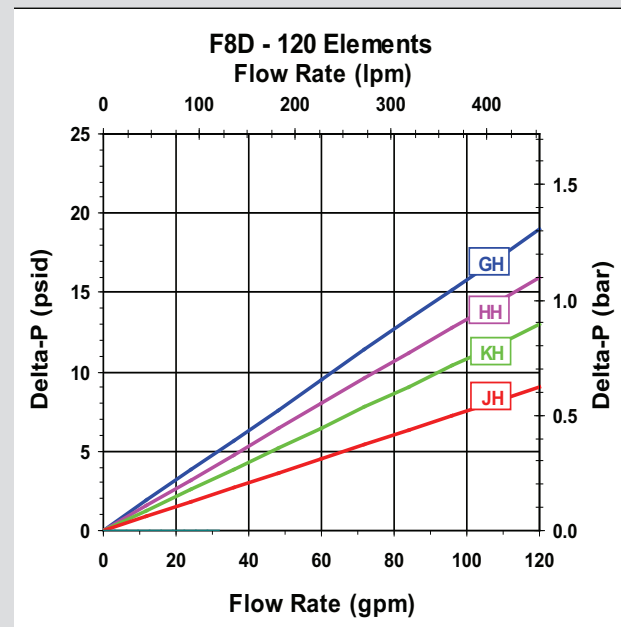
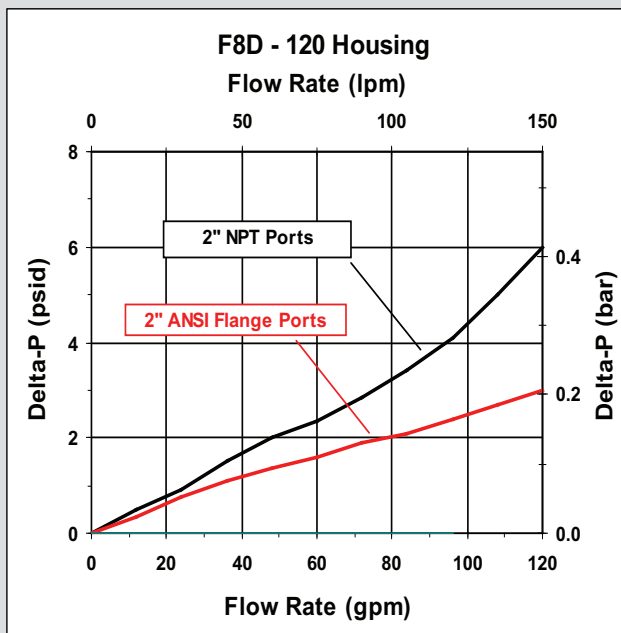
Multipass Test results per old ISO 4572 and new ISO 16889 test procedures  
Particle size (x) in microns at which the Beta Ratio ( $\beta$ ) is greater than or equal to the indicated value (200 or 1000).

Media	Per ISO 4572	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  $\Delta P$  = Housing  $\Delta P$  + Element  $\Delta P$



## Ordering Information

### Assembly

<b>F8D</b>	<b>120</b>	<b>X</b>	<b>X</b>	<b>-</b>	<b>X</b>	<b>X</b>	<b>O</b>	<b>4</b>	<b>X</b>	<b>Z</b>
TBL 1	TBL 2	TBL 3	TBL 4	TBL 5	TBL 6	TBL 7	TBL 8	TBL 9		

**Table 1** Size

Code	Nominal Flow
120	120 gpm (454 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	Pressure Rating
F	150 psid (10 bar)
N	No Filter Element

**Table 5** Port

Code	Option
H	2" NPT
J	2" ANSI Flange

**Table 4** Seals

Code	Material
B	Buna
V	Viton

**Table 6** Gage/Sampling

Code	Option
O	None

**Table 7** Gage Port

Code	Option
4	Two 1/4" NPT (Plugged)

**Table 8** Bypass

Code	Option
H	50 psid (3.5 bar) $\pm 10\%$
N	Non By-pass

**Table 9** Drain Port

Code	Option
Z	Vent - 1-1/4" NPT Plug Drain - 1-3/4" NPT Plug

### Pack Assembly

<b>F8D-</b>	<b>120</b>	<b>-</b>	<b>X</b>	<b>F</b>	<b>-</b>	<b>X</b>
TBL 1	TBL 2	TBL 3	TBL 4			

**Table 1** Size

Code	Nominal Flow
120	120 gpm (454 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

**Table 3** Collapse

Code	Collapse Rating
F	150 psi (10.3 bar)

**Table 4** Seals

Code	Material
B	Buna
V	Viton



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

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



ISO 9001:2000  
AS9100:2004  
TS 16949:2002