



# P83 100 - 250 Series Filter Elements

*Element Interchange Series  
for Pall 8300*

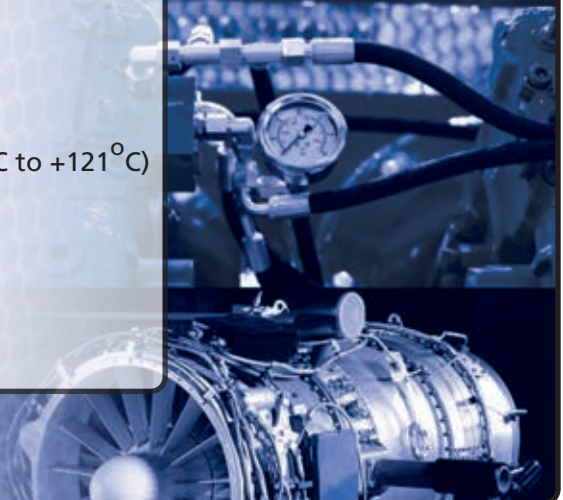


## *Features*

- Fits PTI F7G, F8G & competitor 8300 series filter assemblies
- Element collapse rating 150 psid (10 bar)
- 100, 150 & 250 gpm (379, 568 & 946 lpm) nominal flow rates
- Elements available with Glas-Tech III<sup>®</sup>  $\beta_{x(c)} \geq 1000$  media
- Optional DryPak<sup>®</sup> moisture control media

## *Technical Data*

- |                             |   |
|-----------------------------|---|
| • Collapse Rating           | 150 psid (10 bar)   |
| • Operating Temperature     | -45 <sup>°</sup> F to +250 <sup>°</sup> F (-43 <sup>°</sup> C to +121 <sup>°</sup> C) |
| • Materials of Construction |   |
| Center Tube:                | Tin Plated Steel  |
| End Caps:                   | Zinc Plated Steel   |
| • Seal Material Options     |   |
| Seal Materials:             | Buna<br>Viton <sup>®</sup>  |



## *Technical Information*

Proper fluid maintenance requires periodic replacement of filter elements to insure maximum contamination control, and the P83 Series filter elements are a cost-effective replacement for PTI and competitor filter assemblies.

### **P83 Series elements:**

- provide high efficiency and maximum dirt-holding capacity which results in reduced system wear and downtime
- offer proprietary media meet all filtration requirements
- are tested to the latest ISO efficiency standards

### **Glas-Tech III® High Performance Micro-Fiberglass Media:**

- utilizes multi-layer construction for increased dirt-holding capacity
- offers low pressure drop for cost-effective contamination control
- can be combined with DryPak® media to provide particle and moisture protection

### **DryPak® Moisture Control Media elements:**

- are a cost effective method to provide moisture control within a standard particle element
- enable the filter to continue to remove particles from the fluid with a small increase in  $\Delta P$  when the element is saturated with water
- are available with Glas-Tech III®  $\beta x(c) \geq 1000$  media to provide maximum particle protection

## *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.

## ISO Filtration Rating

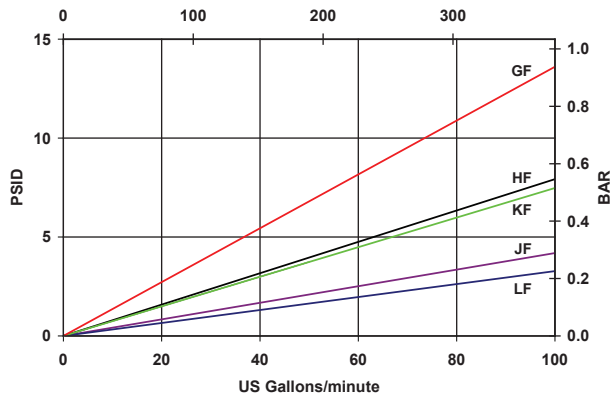
Multipass test results per old ISO 4572 and new ISO 16889 test procedures.  
Particle size (x) in microns at which the Beta Ratio ( $\beta$ ) is greater than or equal to the indicated value (200 or 1000).

Code	Per ISO 4572		Per ISO 16889	
	$\beta_x \geq 200$	$\beta_{x(c)} \geq 200$	$\beta_{x(c)} \geq 1000$	$\beta_{x(c)} \geq 1000$
V	1 $\mu$ m	4.2 $\mu$ m	4.2 $\mu$ m	4.2 $\mu$ m
G	3 $\mu$ m	5 $\mu$ m	7 $\mu$ m	7 $\mu$ m
H	6 $\mu$ m	7 $\mu$ m	9 $\mu$ m	9 $\mu$ m
K	12 $\mu$ m	12 $\mu$ m	15 $\mu$ m	15 $\mu$ m
J	23 $\mu$ m	21 $\mu$ m	24 $\mu$ m	24 $\mu$ m
L	35 $\mu$ m	28 $\mu$ m	35 $\mu$ m	35 $\mu$ m

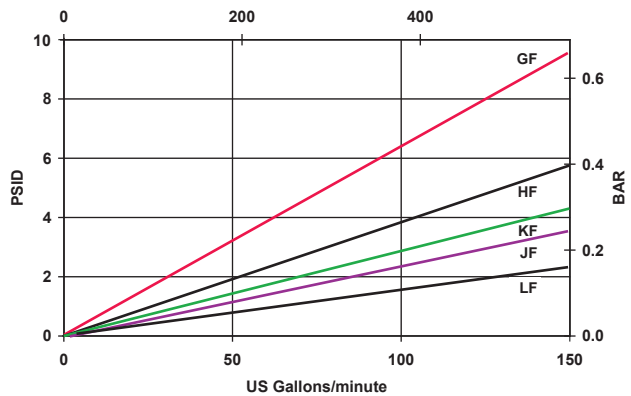
P83 filter elements are also available with 10 $\mu$ m nominal water removal media.  
Please refer to ordering information on back page.

## Flow Rate/Pressure Drop Curves

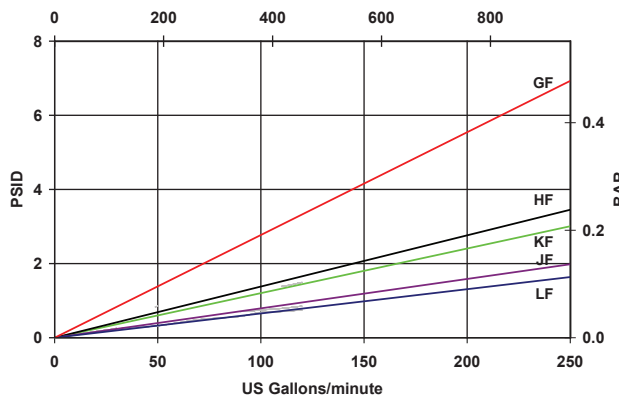
**P83 100 Elements - Flow vs Pressure Drop**  
Liters/minute



**P83 150 Elements - Flow vs Pressure Drop**  
Liters/minute

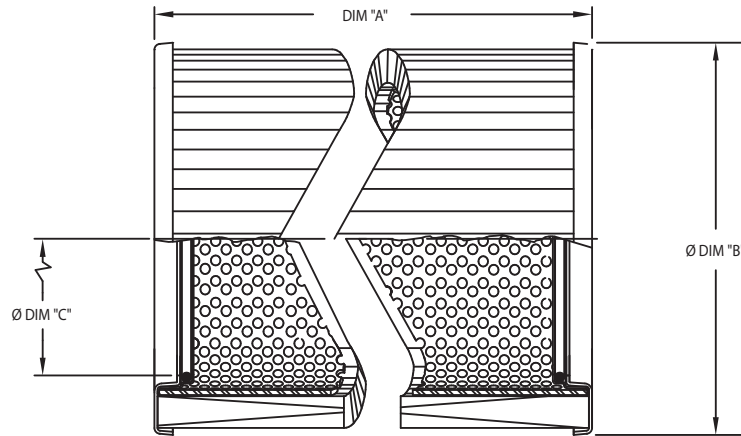


**P83 250 Elements - Flow vs Pressure Drop**  
Liters/minute



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 in Inches (mm)



## Dimension Information

Element Number	DIM A Inches (mm)	ØDIM B Inches (mm)	ØDIM C Inches (mm)
P83-100	8.1 (205.5)	6.0 (151.6)	4.1 (104.9)
P83-150	16.8 (427.0)	6.0 (151.6)	4.1 (104.9)
P83-250	38.7 (982.5)	6.0 (151.6)	4.1 (104.9)

## Ordering Information

P83 - **XXX** - **X** **X** - **X** - **X**

TBL 1   TBL 2   TBL 3   TBL 4   TBL 5

**Table 1** Filtration Rating

Code	Nominal Flow
100	100 gpm (378 lpm)
150	150 gpm (567 lpm)
250	250 gpm (946 lpm)

**Table 4** Seals

Code	Material
B	Buna
V*	Viton®

**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®
L	$\beta_{35(c)} \geq 1000$	Glas-Tech III®
E	10 $\mu$ m	Water Removal
T	149 $\mu$ m	CRES Wire Mesh

\*Glas-Tech elements only. Viton® is a registered trademark of DuPont Performance Elastomers

**Table 3** Collapse

Code	Collapse Rating
F	150 psid (10 bar)

**Table 5** Options

Code	Options
Omit	Standard Element
W	DryPak® Configuration

For more info email: [fluidpower@ptitechnologies.com](mailto:fluidpower@ptitechnologies.com)



PTI Technologies Inc.  
501 Del Norte Boulevard  
Oxnard, California 93030  
800-331-2701 • 805-604-3700  
[www.ptitechnologies.com](http://www.ptitechnologies.com)



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