A more robust and reliable filter element

P83 Series Filter Elements

Features

- Fit PTI F7G & F8G 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® $ß_{x(c)} \geq 1000$ media
- Optional DryPak™ moisture control media

Technical Data

Collapse Rating	150 psid (10 bar)
Operating Temperature	-45ºF to +250ºF (-43ºC to +121ºC)
Materials of Construction	
Center Tube:	Tin Plated Steel
End Caps:	Zinc Plated Steel
Seal Material Options	
Seal Materials:	Buna Viton®

Technical Information

Proper fluid maintenance requires periodic replacement of filter elements to insure maximum contamination control. The P83 Series filter elements are a cost effective replacement for PTI filter assemblies. P83 Series elements provide high efficiency and maximum dirt holding capacity resulting in reduced system wear and downtime. A selection of proprietary media are offered to meet all of your filtration requirements. PTI filters are tested to the latest ISO standards for multipass efficiency testing.

Glas-Tech® High Performance Micro-Fiberglass Media PTI's proven Glas-Tech® $ß_{x(c)} \geq 1000$ micro-fiberglass media utilizes multi-layer construction for increased dirt-holding capacity and low pressure drop providing cost-effective contamination control for the most demanding applications. Glas-Tech® can be combined with DryPak™ media to provide particle and moisture protection.

DryPak™ Moisture Control Media elements are available as a cost effective method to provide moisture control within a standard particle element. PTI DryPak™ media enables the filter to continue to remove particles from the fluid with a small increase in ΔP when the element is saturated with water. Elements are available with Glas-Tech® $ß_{x(c)} \geq 1000$ 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 testing.

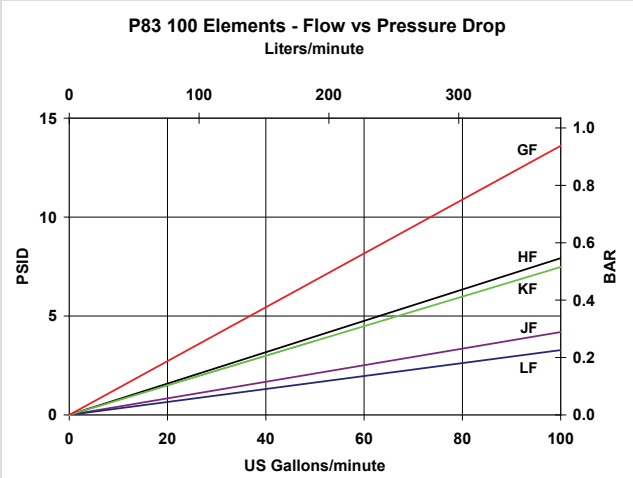
ISO Filtration Rating

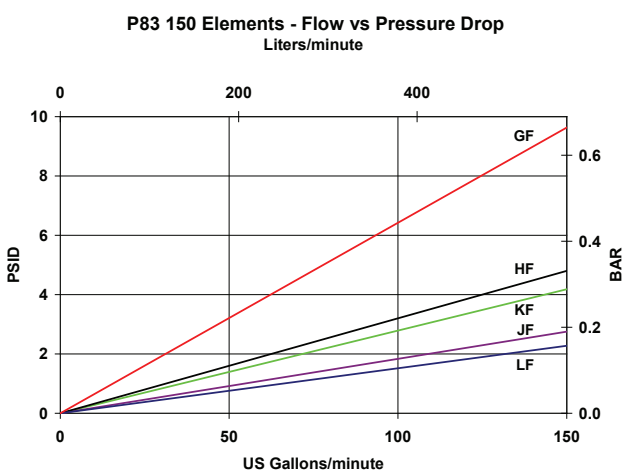
Multipass Test results per old ISO 4572 and new ISO 16889 test procedures
Particle size (x) in microns at which the Beta Ratio (ß) is greater than or equal to the indicated value (200 or 1000).

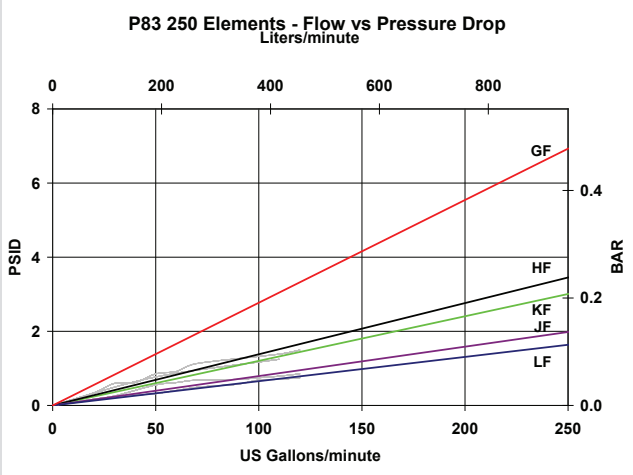
	Per ISO 4572	Per ISO 16889	
Code	$ß_x \geq 200$	$ß_{x(c)} \geq 200$	$ß_{x(c)} \geq 1000$
V	1µm	4.2µm	4.2µm
G	3µm	5µm	7µm
H	6µm	7µm	9µm
K	12µm	12µm	15µm
J	23µm	21µm	24µm
L	35µm	28µm	35µm

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

Flow Rate/Pressure Drop Curves



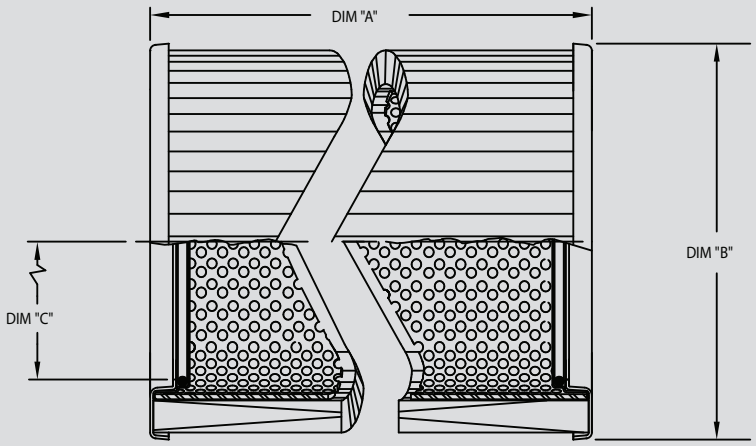




Pressure drop curves are based on 150 SUS (32 cSt) petroleum base hydraulic fluid of 0.9 S.G.
Filter Assembly ΔP = Housing ΔP + Element ΔP

Dimensions*

* Dimensions in inches (mm)



Dimension Information:

Element Number	DIM A Inches (mm)	DIM B Inches (mm)	DIM 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

Element:

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

Table 3 Collapse

Code	Collapse Rating
F	150 psid (10 bar)

Table 4 Seals

Code	Material
B	Buna
V*	Viton®

* Glas-Tech elements only

Viton® is a registered trademark of DuPont Performance Elastomers

Table 5 Options

Code	Options
Omit	Standard Element
W	DryPak™ Configuration

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PTI Technologies Inc is certified to ISO standards