



P83 100 - 250 Series Filter Elements

*Element Interchange Series
for Pall 8300*

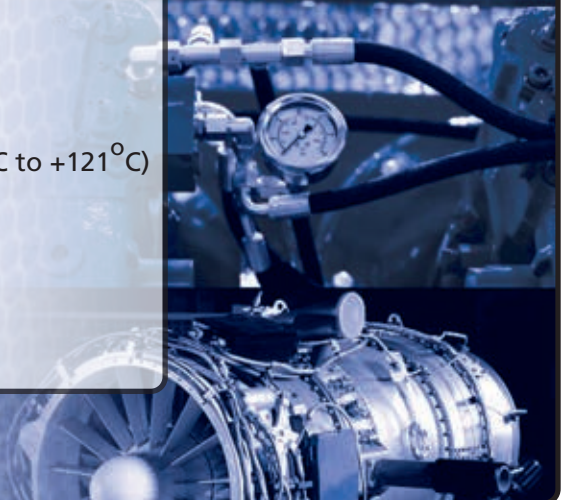


Features

- 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[®] $\beta_{x(c)} \geq 1000$ media
- Optional DryPak[®] moisture control media

Technical Data

- | | |
|-----------------------------|---|
| • Collapse Rating | 150 psid (10 bar) |
| • Operating Temperature | -45 [°] F to +250 [°] F (-43 [°] C to +121 [°] C) |
| • 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, 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 ΔP 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

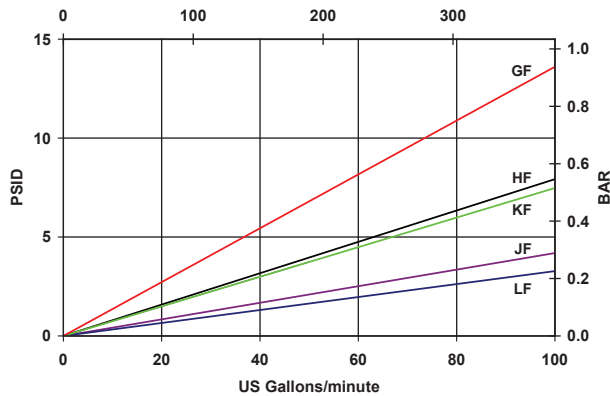
Multipass test results per old ISO 4572 and new ISO 16889 test procedures.
Particle size (x) in microns at which the Beta Ratio (β) is greater than or equal to the indicated value (200 or 1000).

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

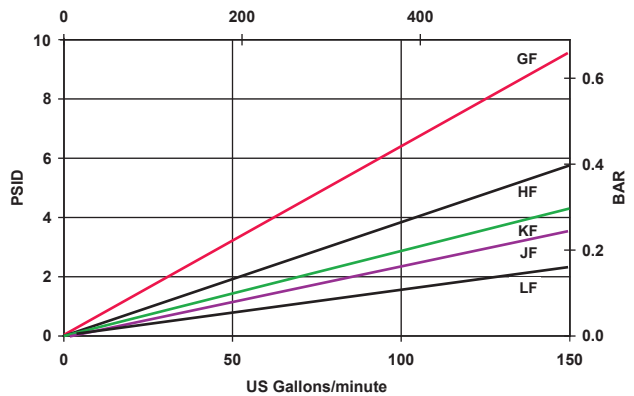
P83 filter elements are also available with 10 μ m nominal water removal media.
Please refer to ordering information on back page.

Flow Rate/Pressure Drop Curves

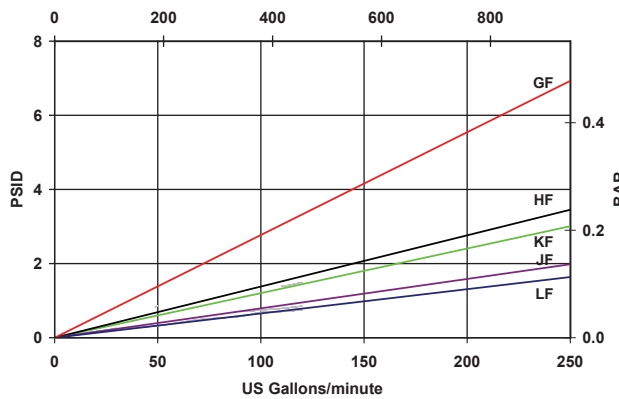
P83 100 Elements - Flow vs Pressure Drop
Liters/minute



P83 150 Elements - Flow vs Pressure Drop
Liters/minute

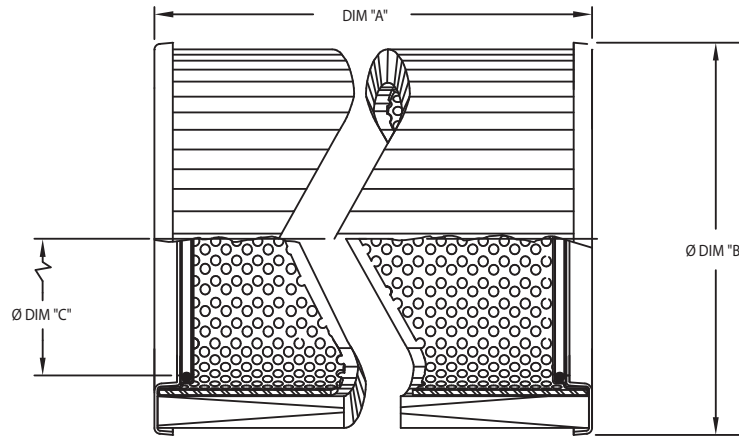


P83 250 Elements - Flow vs Pressure Drop
Liters/minute



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

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 μ m	Water Removal
T	149 μ 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



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