



PG 050 - 120 Series Filter Elements

*A More Robust and Reliable
Filter Element*

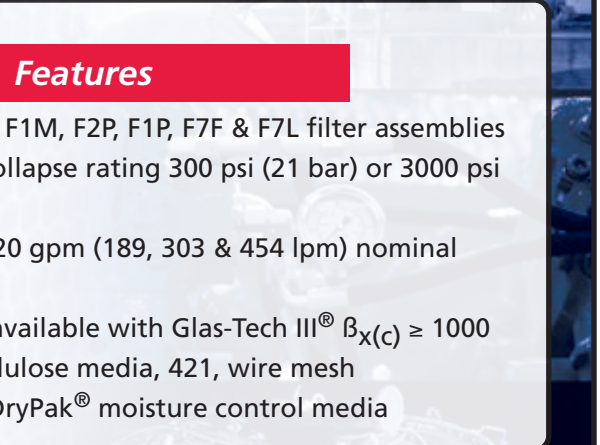


Overview

Proper fluid maintenance requires periodic replacement of filter elements to ensure maximum contamination control. The PG Series filter elements are a cost effective replacement for PTI filter assemblies. A selection of proprietary media is offered to meet all of your filtration requirements. PTI filters are tested to the latest ISO standards for multipass efficiency.

Features

- Fit PTI F1F, F1M, F2P, F1P, F7F & F7L filter assemblies
- Element collapse rating 300 psi (21 bar) or 3000 psi (207 bar)
- 50, 80 & 120 gpm (189, 303 & 454 lpm) nominal flow rates
- Elements available with Glas-Tech III[®] $\beta_{X(c)} \geq 1000$ media, cellulose media, 421, wire mesh
- Optional DryPak[®] moisture control media



Technical Data

Low Collapse Pressure Rating

- Collapse Rating 300 psid (21 bar)
- Operating Temperature -40°F to +250°F (-40°C to +121°C)
- Materials of Construction
 - Center Tube: Zinc Plated Steel
 - End Caps: Al-Si or Zinc Coated Steel

High Collapse Pressure Rating

- Collapse Rating 3000 psid (217 bar)
- Operating Temperature -40°F to +250°F (-40°C to +121°C)
- Materials of Construction
 - Center Tube: Aluminum Alloy
 - End Caps: Al-Si or Zinc Coated Steel

Alternate materials are available for unique applications and environments.
Please consult factory for information.

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

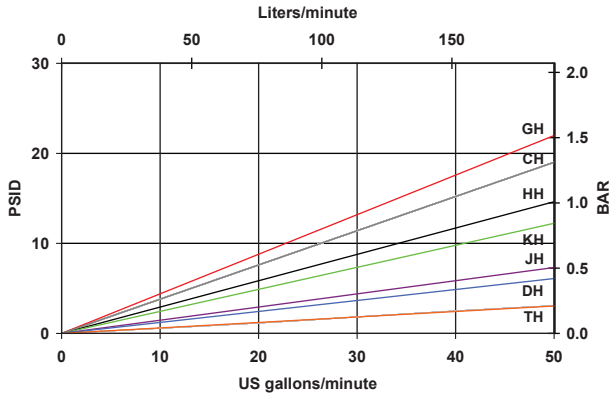
PG 050-120 filter elements are also available with 10 μ m nominal water removal or 149 μ m nominal CRES wire mesh media. Please refer to ordering information on back page.

For more info email: fluidpower@ptitechnologies.com or chemicalprocessing@ptitechnologies.com
Please see Element RFQ and Housing RFQ under white tab (Request A Quote)

Flow Rate/Pressure Drop Curves

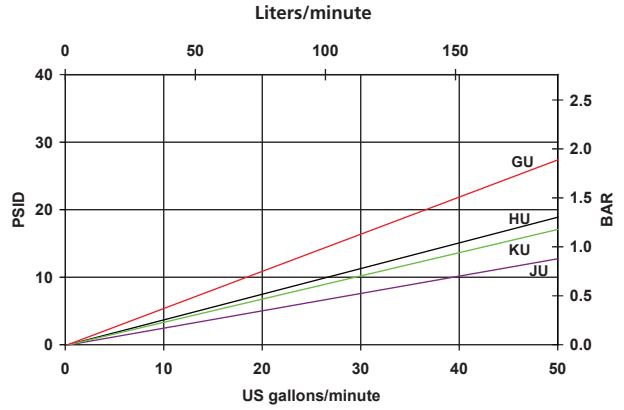
300 psid Collapse

PG 050 Filter Elements - Flow vs Pressure Drop

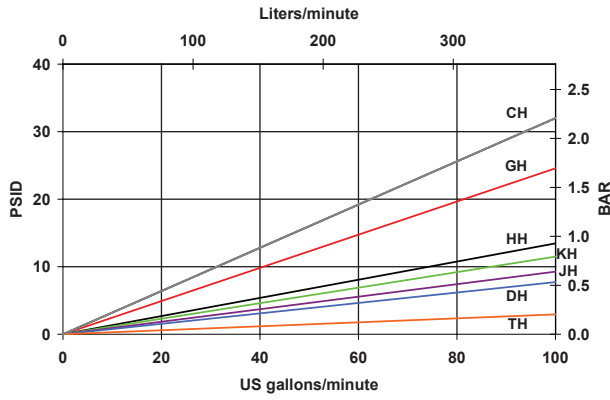


3000 psid Collapse

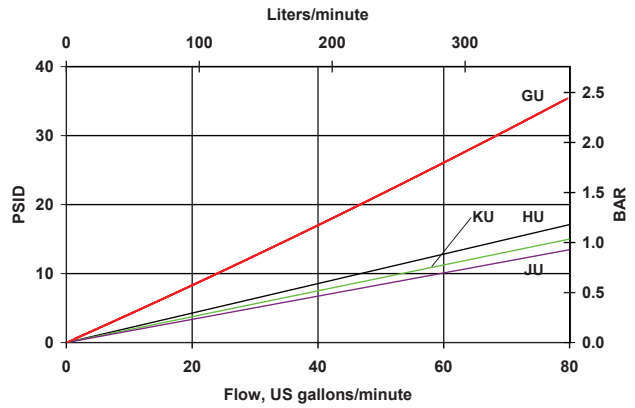
PG 050 Filter Elements - Flow vs Pressure Drop



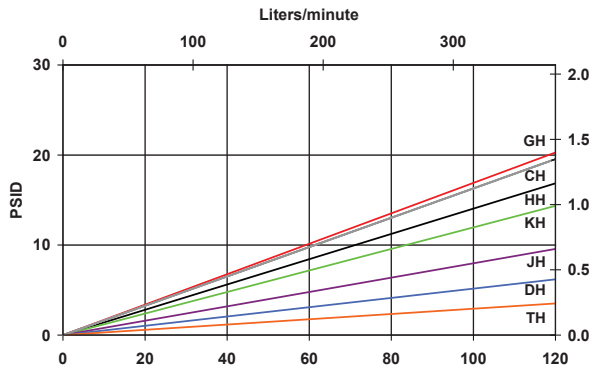
PG 080 Filter Elements - Flow vs Pressure Drop



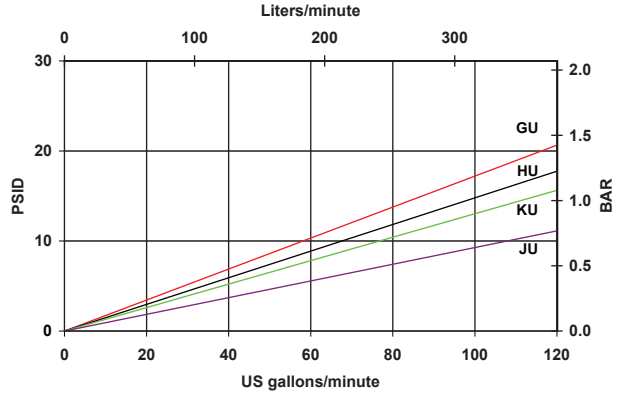
PG 080 Filter Elements - Flow vs Pressure Drop



PG 120 Filter Elements - Flow vs Pressure Drop

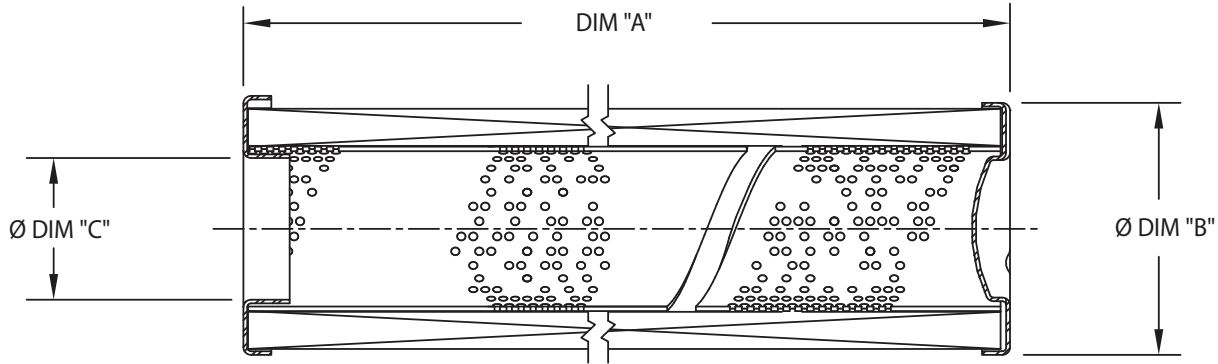


PG 120 Filter Elements - Flow vs Pressure Drop



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)	Ø DIM B Inches (mm)	Ø DIM C Inches (mm)	O-Ring Size* (AS568)
PG-050-xH	5.6 (142.0)	3.3 (84.6)	1.9 (47.5)	131
PG-050-xU	5.6 (142.0)	3.3 (84.6)	1.9 (47.5)	131
PG-080-xH	10.2 (257.8)	3.3 (84.6)	1.9 (47.5)	131
PG-080-xU	10.2 (257.8)	3.3 (84.6)	1.9 (47.5)	131
PG-120-xH	14.7 (373.9)	3.3 (84.6)	1.9 (47.5)	131
PG-120-xU	14.7 (373.9)	3.3 (84.6)	1.9 (47.5)	131

* The element seals on an O-Ring (O-Ring not included with element), located on the post in the filter head.

Ordering Information

PG - XXX - X - X - X

TBL 1 TBL 2 TBL 3 TBL 4

Code	Nominal Flow
050	50 gpm (189 lpm)
080	80 gpm (303 lpm)
120	120 gpm (454 lpm)

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®
*E	10 μ m	Water Removal
*T	149 μ m	Wire Mesh

Code	Collapse Rating
H	300 psid (21 bar)
U	3,000 psid (207 bar)

Code	Option
Omit	Standard Element
W	DryPak® Configuration

* 300 psid collapse only

For more info email: fluidpower@ptitechnologies.com



PTI Technologies Inc.
501 Del Norte Boulevard
Oxnard, California 93030
800-331-2701 • 805-604-3700
www.ptitechnologies.com



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