



*A more robust
and reliable
filter assembly*

F7F Series Duplex Filters

Low Pressure Hydraulic Filter Assemblies

Features

- 350 psi (24 bar) Operating Pressure
- Flows to 100 gpm (378 lpm)
- SAE -24 Straight Thread or SAE 4-Bolt Flange Ports
- Available with $\beta_{X(c)} \geq 1000$ Glas-Tech[®] Media
- Optional Visual & Electrical Indicators
- Self Locking Transfer Valve
- Automatic Bleed-Over Valve

Product Description

The F7F Series duplex filter assemblies provide continuous filtration for critical applications and are rated for 350 psi (24 bar) service and flows to 100 gpm (378 lpm). The filters are available with either SAE -24 straight thread o-ring ports or SAE 4-bolt flanges. A variety of micron ratings and indicator options allow you to select the right filter for your application. F7F Series Filters use PTI's Glas-Tech Media with Beta 1,000 (ISO 16889) filtration ratings providing high performance cost effective contamination control for the most demanding applications.



F7F Series Duplex Filters



Technical Data

Pressure & Temperature Rating:

Operating Pressure:	350 psi (24 bar)
Proof Pressure:	700 psi (48 bar)
Burst Pressure:	1,050 psi (72 bar)
Operating Temperature:	-40 °F to +250 °F (-40 °C to +121 °C)

Materials of Construction:

Head:	Anodized Aluminum Alloy
Bowl - 040 & 080:	Anodized Aluminum Alloy
Bowl - 100:	Steel

Bypass Options:

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

Visual Indicator :	32 psid (2.2 bar) ±10% activation, manual reset 32 psid (2.2 bar) ±10% activation, self resetting
Visual & Electrical Indicator:	32 psid (2.2 bar) ±10% activation 12 to 220 Volt AC/DC, 2.5 AMP, 60VA, 40W Contacts - SPST NO or NC, DIN Connector
Thermal Lockout Options:	Lockout below 70 °F (21 °C) Release above 95 °F (35 °C)

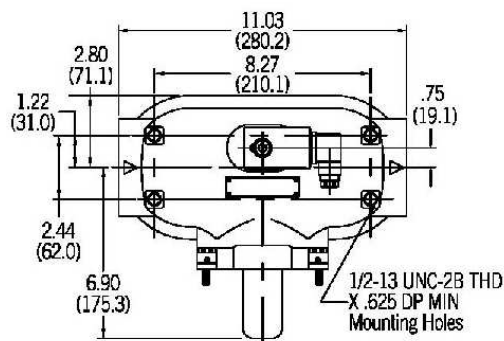
Seal Material Options:

- Buna
- Viton

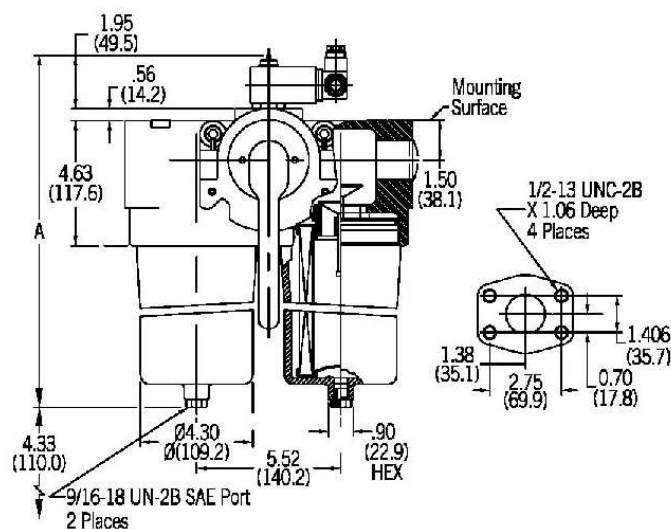
Filter Assembly (Housing & Element) Weight:

Size	040	080	100
Weight	20 lbs (9.1 kg)	23 lbs (10.4 kg)	44 lbs (20.0 kg)

Dimensions*



Dimensions	-040	-080	-100
Nominal Flow	-040	-080	-100
Dimension A	12.8 in (325.1mm)	17.4 in (442.0mm)	22.0 in (558.0mm)



* Dimensions in inches (mm)

Elements

Glas-Tech - High Performance Micro-Fiberglass Media

F7F filter assemblies incorporate PG series filter elements and are available in V, G, H, K and J medias. PG 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.

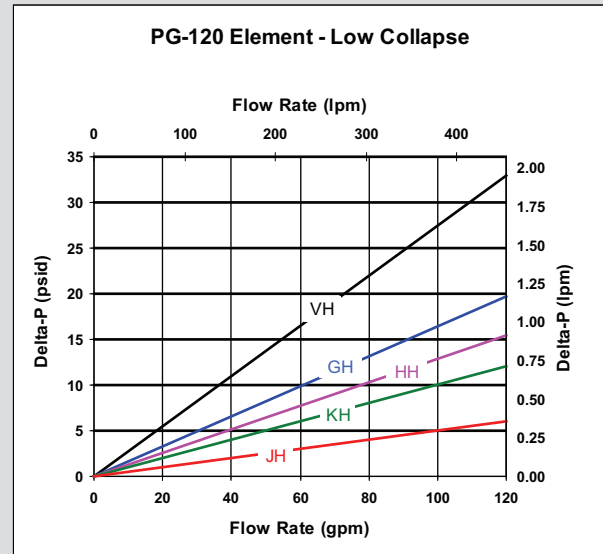
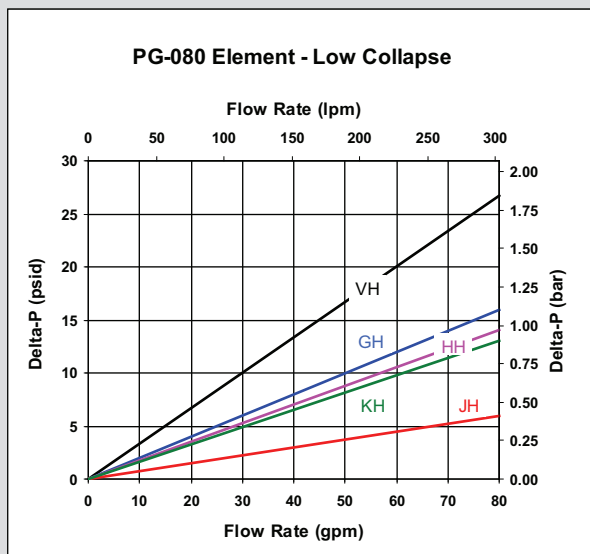
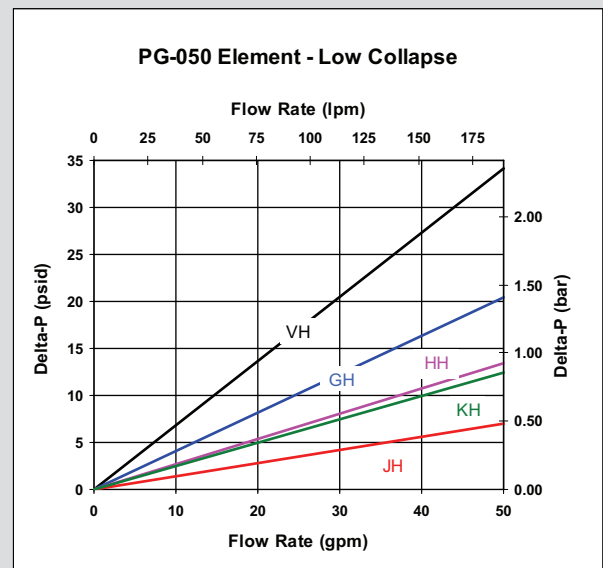
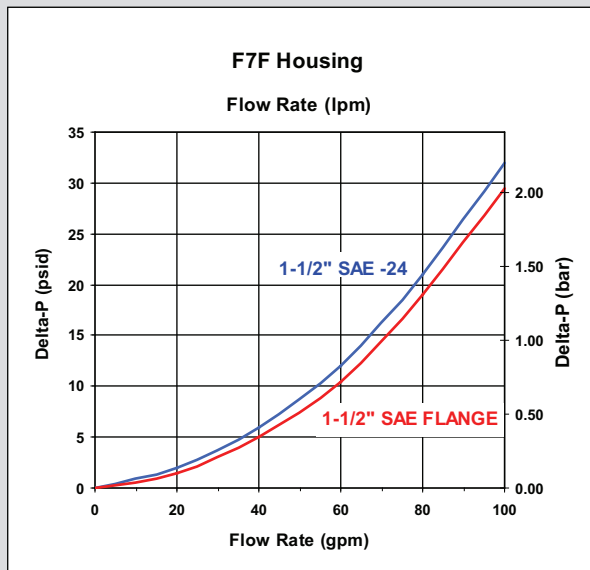
Filtration Rating

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

Media	Per ISO 45729		Per ISO 16889	
	$\beta_x \geq 200$	$\beta_{x(c)} \geq 200$	$\beta_{x(c)} \geq 200$	$\beta_{x(c)} \geq 1000$
V	1	4.2	4.2	4.2
G	3	5	7	7
H	6	7	9	9
K	12	12	15	15
J	23	21	24	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 ΔP = Housing ΔP + Element ΔP



Ordering Information

Assembly

F7F	XXX	X	X	-	X	X	X	X	X	X
TBL 1	TBL 2	TBL 3	TBL 4	TBL 5	TBL 6	TBL 7	TBL 8	TBL 9		

F7F Series Filters

Code	Nominal Flow
040	40 gpm (95 lpm)
080	80 gpm (302 lpm)
100	100 gpm (378 lpm)

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	

Code	Collapse Rating
H	300 psid (20 bar)
N	No Filter Element

Code	Material
B	Buna
V	Viton

Code	Option
P	1-1/2" SAE (-24)
4	1-1/2" SAE Flange Code 61*

* SAE J518

Code	Option
O	None
T*	Thermal Lockout - NO
U*	Normally Closed - NC

* Options only available for K code Indicator (See Table 7)

Code	Option
B	Visual 32 psid (2.2 bar) $\pm 10\%$ Manual Reset
K	Visual/Electrical 32 psid (2.2 bar) $\pm 10\%$
P	None (Blind Plug)
Q	Visual 32 psid (2.2 bar) $\pm 10\%$ Self Resetting

Code	Option
H	50 psid (3.5 bar) $\pm 10\%$
N	None

Code	Option
X	Vent & Drain Ports

Element

PG	-	XXX	-	X	H
TBL 1		TBL 2		TBL 3	

Code	Used On
050	F7F040
080	F7F080
120	F7F100

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

Code	Collapse Rating
H	300 psi (20 bar)



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

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

