



*A more robust
and reliable
filter assembly*

F2P 015-030 Series T-Type Hydraulic Filter Assemblies

High Pressure Hydraulic Filter Assemblies

Features

- 6,000 psi (414 bar) operating pressure
- Element collapse ratings of 300 & 3000 psid (21 & 207 bar)
- 15, 25 & 30 gpm (57, 95 & 114 lpm) nominal flow rates
- SAE -12 or SAE -16 ports
- Elements available with $\beta_{x(c)} \geq 1000$ Glas-Tech® media
- Optional thermal lockout
- Valve options include - bypass, reverse flow & no bypass

Technical Data

Pressure & Temperature Rating

Operating Pressure:	6,000 psi (414 bar)
Proof Pressure:	9,000 psi (621 bar)
Burst Pressure:	12,000 psi (828 bar)
Operating Temperature	-40°F to +250°F (-40°C to +121°C)

Materials of Construction

Head:	Ductile Iron
Bowl:	Steel

Bypass Options

Bypass Valve Setting:	100 psid (6.9 bar) $\pm 10\%$
Reverse Flow Valve Setting:	4 psid (0.3 bar)

Differential Pressure Indicators

Visual Indicator :	75 psid (5.2 bar) $\pm 10\%$ activation, manual reset
Visual Electrical Indicator:	75 psid (5.2 bar) $\pm 10\%$ activation 12 to 220 Volt AC/DC, 2.5 AMP, 60VA, 40W Contacts - SPDT NO or NC, DIN Connector
Thermal Lockout Options:	Lockout below 70°F (21°C)* Release above 95°F (35°C)*

* Thermal lockout of electrical signal only

Seal Material Options

Seal Materials:	Buna, Viton® or Ethylene Propylene
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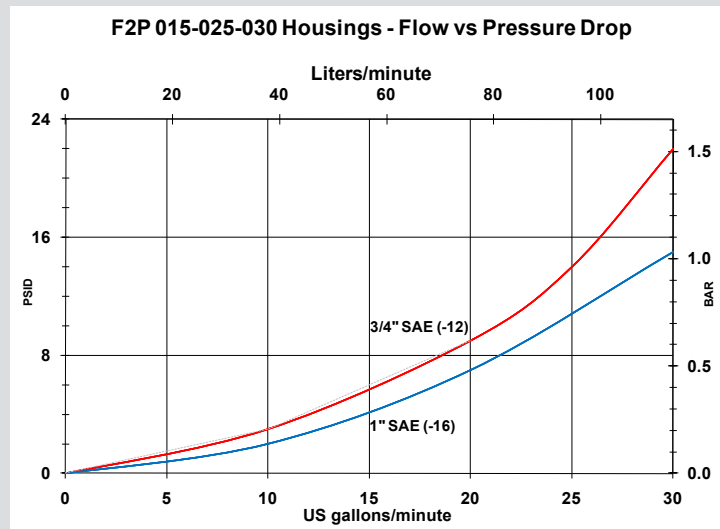
Elements

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.

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).			
	Per ISO 4572	Per ISO 16889	
Code	$\beta_x \geq 200$	$\beta_{x(c)} \geq 200$	$\beta_{x(c)} \geq 1000$
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

The PTI Technologies F2P series of high pressure hydraulic filter assemblies utilize PG series filter elements. Please see the PG series filter element brochure for flow vs. pressure drop data.

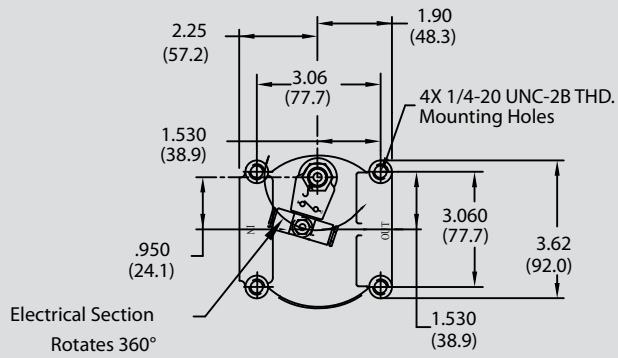
Flow Rate/Pressure Drop Curves



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

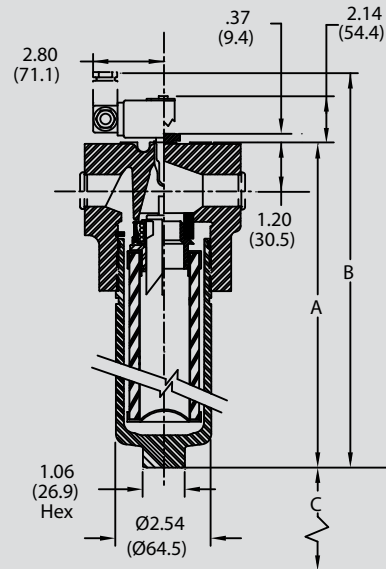
Dimensions*

* Dimensions in inches (mm)



Dimensions

Nominal Flow	-015	-025	-030
Dimension A	7.61 (193.3)	10.72 (272.3)	13.68 (347.5)
Dimension B	10.06 (255.5)	13.42 (341.0)	16.15 (410.2)
Dimension C	2.50 (63.5)		



Filter Assembly Weight

Filter Assembly (Housing & Element) Weight

Size	015	025	030
Weight	8.4 lbs (3.8 kg)	9.2 lbs (4.1 kg)	10.4 lbs (4.7 kg)

Ordering Information

Assembly:

F2P	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		

Table 1 Size

Code	Nominal Flow
015	15 gpm (57 lpm)
025	25 gpm (95 lpm)
030	30 gpm (114 lpm)

Table 2 Filtration Rating

Code	Micron Rating	Media
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	

Table 3 Collapse

Code	Collapse Rating
H	300 psid (21 bar)
U	3,000 psid (207 bar)
N	No Filter Element

Table 4 Seals

Code	Material
B	Buna
V	Viton®
E	Ethylene Propylene

Viton® is a registered trademark of DuPont Performance Elastomers

Table 5 Port

Code	Option
L	3/4" SAE (-12)
M	1" SAE (-16)

Table 6 Thermal Lockout

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

* Only available for M Series Indicator (See Table 7)

* Thermal Lockout of Electrical signal only

Table 7 Indicator

Code	Option
P	None (Boss Plugged)
D	Visual 75 psid (5.2 bar) ±10%
M	Visual/Electrical 75 psid (5.2 bar) ±10%

Table 8 Bypass

Code	Option
N	Non-Bypass
L	100 psid (6.9 bar)
X	Reverse Flow Valve w/ Bypass Rev Flow Valve Opens @ 4 psid (0.3 bar)

Table 9 Drain Port

Code	Option
N	None

Element:

PG	-	XXX	-	X	X	-	X
TBL 1		TBL 2	TBL 3	TBL 4			

Table 1 Size

Code	Nominal Flow
015	15 gpm (57 lpm)
025	25 gpm (95 lpm)
030	30 gpm (114 lpm)

Table 2 Filtration Rating

Code	Micron Rating	Media
G	$\beta_{7(c)} \geq 1000$	Glas-Tech
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J	$\beta_{24(c)} \geq 1000$	Glas-Tech

Table 3 Collapse

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

Table 4 Options

Code	Option
Omit	Standard Element
W	DryPak™ Configuration





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F2P 050-120 Series T-Type Hydraulic Filter Assemblies

High Pressure Hydraulic Filter Assemblies

Features

- 6,000 psi (414 bar) operating pressure
- Element collapse ratings of 300 & 3000 psid (21 & 307 bar)
- 50, 80 & 120 gpm (189, 303 & 454 lpm) nominal flow rates
- SAE ports or SAE flanges
- Elements available with $\beta_{x(c)} \geq 1000$ Glas-Tech® media
- Optional thermal lockout
- Valve options include - bypass, reverse flow & no bypass

Technical Data

Pressure & Temperature Rating

Operating Pressure:	6,000 psi (414 bar)
Proof Pressure:	9,000 psi (621 bar)
Burst Pressure:	12,000 psi (828 bar)
Operating Temperature:	-40°F to +250°F (-40 °C to +121°C)

Materials of Construction

Head:	Ductile Iron
Bowl:	Steel

Bypass Options

Bypass Valve Setting:	100 psid (6.9 bar) $\pm 10\%$
Reverse Flow Valve Setting:	4 psid (0.3 bar)

Differential Pressure Indicators

Visual Indicator :	75 psid (5.2 bar) $\pm 10\%$ activation, manual reset
Visual Electrical Indicator:	75 psid (5.2 bar) $\pm 10\%$ activation 12 to 220 Volt AC/DC, 2.5 AMP, 60VA, 40W Contacts - SPDT NO or NC, DIN Connector

Thermal Lockout Options:	Lockout below 70°F (21°C) * Release above 95°F (35°C) * * Thermal lockout of electrical signal only
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Seal Material Options

Seal Materials:	Buna, Viton® or Ethylene Propylene
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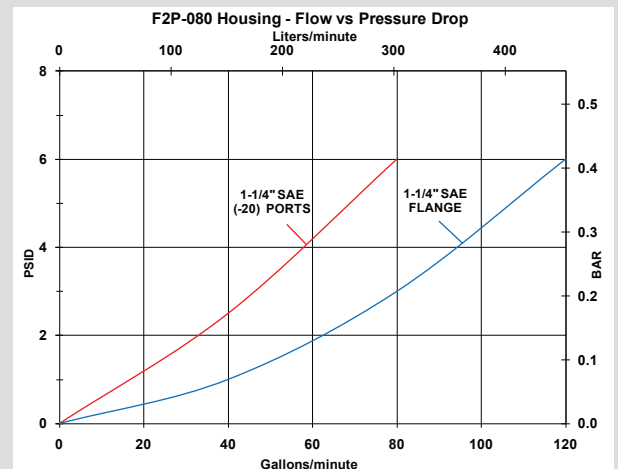
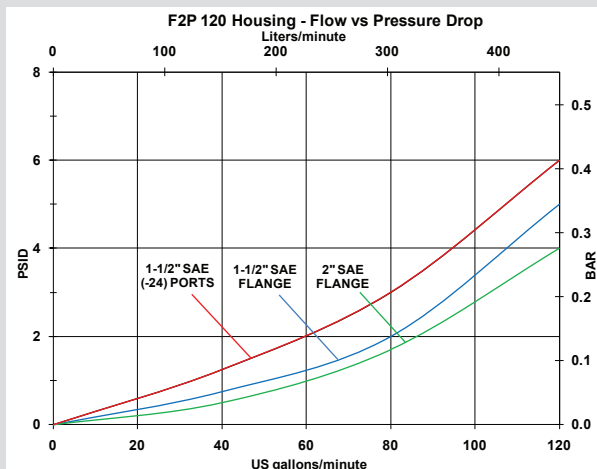
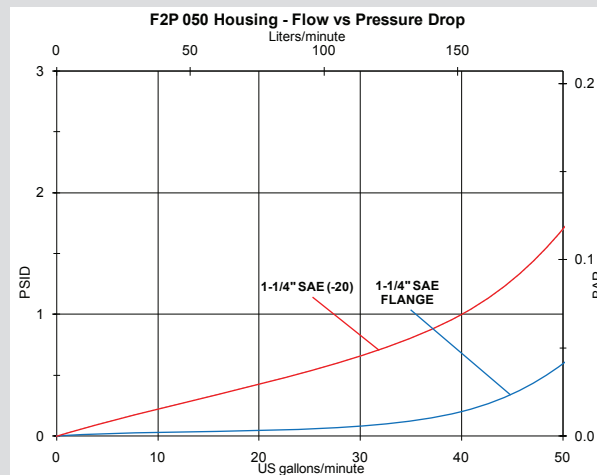
Elements

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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

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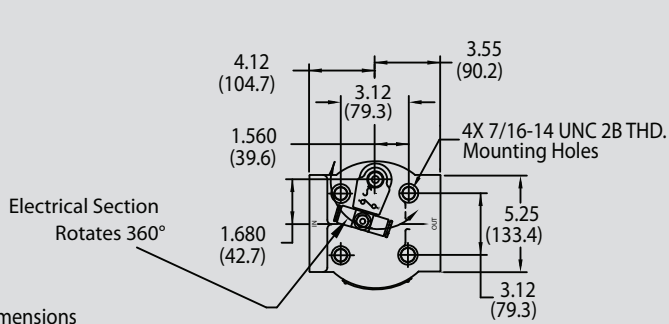
Flow Rate/Pressure Drop Curves



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

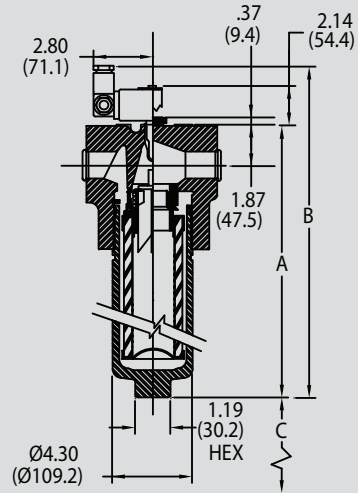
Dimensions*

* Dimensions in inches (mm)



Dimensions

Nominal Flow	-050	-080	-120
Dimension A	11.10 (281.9)	15.57 (395.5)	20.20 (513.1)
Dimension B	13.80 (350.5)	18.01 (457.5)	22.62 (574.6)
Dimension C	2.50 (63.5)		



Filter Assembly Weight

Filter Assembly (Housing & Element) Weight

Size	050	080	120
Weight	27.1 lbs (12.3 kg)	34.4 lbs (15.6 kg)	40.6 lbs (18.4 kg)

Ordering Information

Assembly:

F2P	XXX	X	X	-	X	X	X	X	X	X
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TBL 1 TBL 2 TBL 3 TBL 4 TBL 5 TBL 6 TBL 7 TBL 8 TBL 9

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
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 (21 bar)
U	3,000 psid (207 bar)
N	No Filter Element

Code	Material
B	Buna
V	Viton®
E	Ethylene Propylene

Viton® is a registered trademark of DuPont Performance Elastomers

Code	Option
N	1-1/4" SAE (-20)
5	1-1/4" SAE Flange - code 62*
7	1-1/4" SAE Flange - code 61*
P	1-1/2" SAE (-24)
4	1-1/2" SAE Flange - code 61*
2	1-1/2" SAE Flange - code 62*
U	2" SAE Flange - code 62*

* SAE J518

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

* Only available for M Series Indicator (See Table 7)

* Thermal Lockout of Electrical signal only

Code	Option
P	None (Boss Plugged)
D	Visual 75 psid (5.2 bar) $\pm 10\%$
M	Visual/Electrical 75 psid (5.2 bar) $\pm 10\%$

Code	Option
N	Non-Bypass
L	100 psid (6.9 bar)
X	Reverse Flow Valve w/ Bypass Rev Flow Valve Opens @ 4 psid (0.3 bar)

Code	Option
N	None (050 only)
D	3/8 BSP (080 & 120 only)

Element:

PG	-	XXX	-	X	X	-	X
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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
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 psid (21 bar)
U	3,000 psid (207 bar)

Code	Option
Omit	Standard Element
W	DryPak™ Configuration

