High Pressure Full Flow Bi-Directional Filter



450 bar, 6225 psi Operating Pressure 300 lpm, 79 gpm Max Flow Rate Bi-Directional Full Flow Filtration

APPLICATIONS

PFB high pressure filter assemblies are designed for applications where flow direction changes and fluid must be filtered full flow in both directions.

- Large cylinders remotely located from valve manifold. Protect both components and clean fluid that typically does not return to the reservoir.
- Steel mills, Board plants, Scrap yards, concrete mixers.
- Any line where flow can reverse direction.
- Hydrostatic loop circuit applications.

PRODUCT FEAT	URES	PRODUCT SPEC	CIFICATIONS
DFE rated elements (Dynamic Filter Efficiency) Circumferential o-ring bowl seal Low housing pressure drop	G7 Dualglass media filter elements are DFE rated to assure performance even when exposed to the toughest hydraulic systems (See DFE literature for details) Circumferential seal on the bowl eliminates leaking and weeping. Unique internal flow paths provide low resistance to flow.	Materials Head Bowl Seals Media options Interior coating Exterior coating ISO standards ISO 2941	Cast steel Extruded steel Buna or Viton G7 Dualglass, Stainless mesh Phosphate coating Power paint coated Collapse and burst resistance
Coreless elements	(Low pressure drop) PFH419 housings (with bypass valve) can be ordered with Hy-Pro coreless filter element for easy disposal (crush or incinerate).	ISO 2942 ISO 2943 ISO 3724 ISO 3968 ISO 16889 DIN 24550	Fabrication and integrity test Material compatibility with fluids Flow fatigue test Pressure drop vs flow rate Multi-pass filter performance Nominal pressure rating
Differential indicator	Available with visual, electrical, or electrical with LED (visual signal) differential indicators.	Temperature rating Fluid compatibility	Buna -40f(-40c) to 225f(107c) Viton -15f(-26c) to 275f(135c) Biodegradable and mineral based fluids. For high water based or specified synthetics consult factory



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HIGH PERFORMANCE FILTER ELEMENTS — THE HEART OF A FILTER

Dynamic Filter Efficiency (DFE) Testing

Revolutionary test methods assure that DFE rated elements perform true to rating even under demanding variable flow and vibration conditions. Today's industrial and mobile hydraulic circuits require elements that deliver specified cleanliness under ALL circumstances. Wire mesh supports the media to ensure against cyclical flow fatigue, temperature, and chemical resistance failures possible in filter elements with synthetic support mesh. Contact your distributor or Hy-Pro for more information and published articles on DFE testing.

Media Options

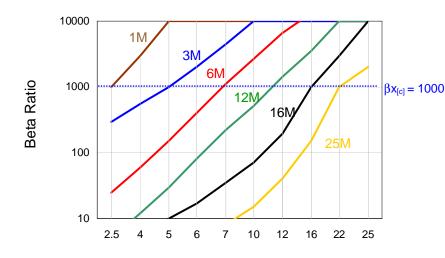
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Through extensive testing we have developed media choices to handle any application. Options include G7 Dualglass, Dynafuzz (stainless fiber), and Wire mesh (stainless).

Fluid Compatibility

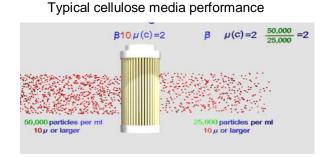
Petroleum based fluids, water glycol, polyol ester, phosphate ester, high water based fluids and many other synthetics. Contact us for seal material selection assistance.

FILTER MEDIA SPECIFICATIONS

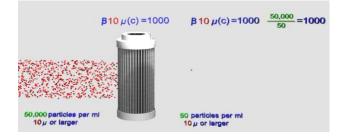


media code	media description
A	G7 Dualglass high performance media combined with water removal scrim. $\beta x_{[c]} = 1000 (\beta x = 200)$
Μ	G7 Dualglass our latest generation of DFE rated, high performance glass media for all hydraulic & lubrication fluids. $\beta x_{[c]} = 1000$ ($\beta x = 200$)
W	Stainless steel wire mesh media $\beta x_{[c]} = 2 (\beta x = 2)$ nominally rated

Micron size μm_[c] (per ISO16889)



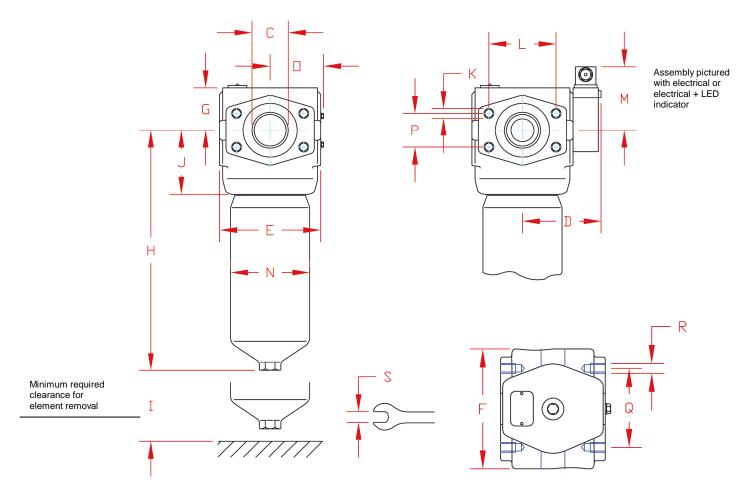
Hy-Pro G7 Dualglass media performance





PFHB

PFHB INSTALLATION DRAWING AND SPARE PARTS LIST



PFHB*13

IN (mm)

SAE-20, SAE-24 code 62 flange

1.24 (31,49)

4.02 (102,10)

5.44 (138,17)

6.15 (156,21)

2.29 (58,16)

16.86 (428,24)

	PFHB*8	PFHB*13
	lbs (kg)	lbs (kg)
Weight	45 (19,98)	50 (22,70)

1	Element	See element p/n guide
2	Bowl Seal kit	
	Nitrile NBR	PFHB419SKB
	Fluorocarbon	PFHB419SKV
3	Bowl	
	Single length	PFB4191
	Single length w/drain port	PFB4191D
	Double length	PFB4192
	Double length w/drain port	PFB4192D
	Triple length	PFB4193
	Triple length w/drain port	PFB4193D
4	Indicator	
	Visual indicator, Buna seal	PFH840IVB
	Visual, Viton seal	PFH840IVV
	Electrical, Buna seal	PFH840IEB
	Electrical, Viton seal	PFH840IEV
1	Electrical + LED, Nitrile seal	PFH840ILB
	Electrical + LED, Fluoro seal	PFH840ILV



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I	3.15 (80,01)	3.15 (80,01)
J	3.45 (87,63)	3.45 (87,63)
К	F1: M14 x 22mm depth F2: M16 x 24mm depth	F1: M14 x 22mm depth F2: M16 x 24mm depth
L	F1 port: 2.63 (66,80) F2 port: 3.12 (79,25)	F1 port: 2.63 (66,80) F2 port: 3.12 (79,25)
Μ	Optical 2.96 (75,18) Electrical 3.43 (87,12)	Optical 2.96 (75,18) Electrical 3.43 (87,12)
Ν	4.26 (108,2)	4.26 (108,2)
0	2.88 (73,15)	2.88 (73,15)
Р	F1 port: 1.25 (31,75) F2 port: 1.44 (36,57)	F1 port: 1.25 (31,75) F2 port: 1.44 (36,57)
Q	3.94 (100,07)	3.94 (100,07)
R	M12 x 0.71(18,0) depth	M12 x 0.71(18,0) depth
S	1.26 (32,00)	1.26 (32,00)

PFHB*8

IN (mm)

SAE-20, SAE-24

code 62 flange

1.24 (31,49)

4.02 (102,10)

5.44 (138,17)

6.15 (156,21)

2.29 (58,16)

12.92 (328,17)

A/B

С

D

Ε

F

G

Н