

PF2 High Pressure In-Line Filter

Featuring Hy-Pro G7 Dualglass Filter element technology

APPLICATIONS

- Hy-Pro PF2 pressure filters are ideal for protecting control valves and other sensitive components.
- Mobile applications such as waste haulers, cement mixers/pumpers, firetrucks, cranes, man lifts, etc.
- Power unit builders for pressure line.
- General industrial machine tools.
- Paper mill and sawmill.
- Primary metals.
- Power generation applications for speed control circuit.
- Automotive manufacturing machine tools.

FEATURES, BENEFITS, ADVANTAGES

DFE rated elements	G7 Dualglass and PE glass elements are DFE rated to assure performance even when exposed to the toughest hydraulic systems (See DFE literature for details)
Circumferential o-ring bowl seal	Circumferential seal on the bowl eliminates leading. (No Drips)
Low housing pressure drop	Unique internal flow paths provide low resistance to flow. (Low pressure drop)
HF2 compatible	Port to port dimension, mounting pattern, and element design meet HF2 automotive specification. (Automotive standard)
Drain plug standard	Bowl with drain plug comes standard. (No price adder)

PRODUCT SPECIFICATIONS

Pressure ratings	4000 psi (207 bar) max operating 12000 psi (638 bar) burst
Flow rate	20 gpm (75 lpm) max
Design safety factor	3:1
Element collapse	code 0: 150 psid (10 bar) code 1: 3000 psid (212 bar)
Housing material	Aluminum grade T6061
Fluid compatibility (ISO 2948)	Compatible with all petroleum, based oils, HWBF, water glycol, oil/water emulsion, and specified synthetic fluids with Viton or EPR seals (call factory)
Flow fatigue rating	2000 psi (178 bar)
Differential pressure indicator trigger	50 psid (3.5 bar) standard
Bypass valve crack	60 psid (4.2 bar) standard
Weight (w/element)	Single length bowl 3.8lb (1.7kg) Double length bowl 5.0lb (2.3kg)
Temperature rating	Buna = -40f(-40c) to 225f (107c) Viton = -15f(-26c) to 275f(135c)

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

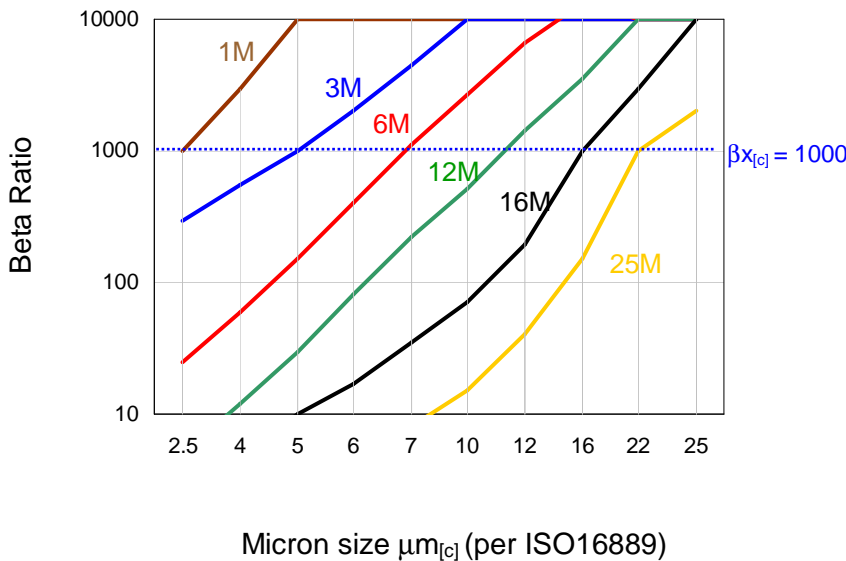
Through extensive testing we have developed media choices to handle any application. Options include G7 Dualglass, Dynafuzz (stainless fiber), and Wire mesh (stainless).

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.

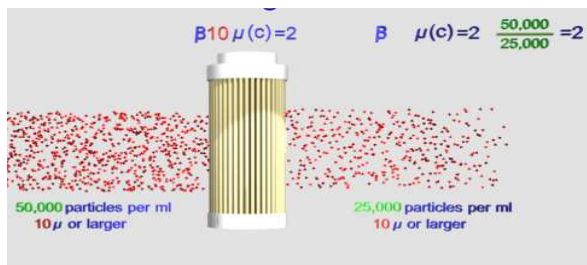
FILTER MEDIA SPECIFICATIONS

Glass Media Code Filtration Efficiency (Beta Ratio) vs Micron

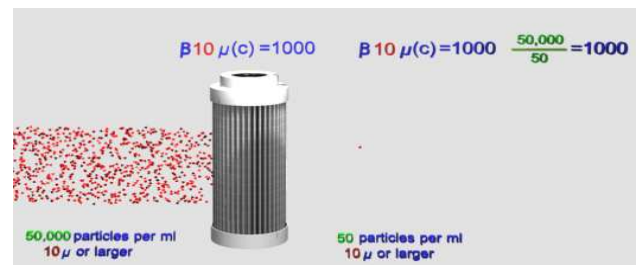


media code	media description
A	G7 Dualglass high performance media combined with water removal scrim. $\beta_{x[c]} = 1000$ ($\beta_x = 200$)
M	G7 Dualglass our latest generation of DFE rated, high performance glass media for all hydraulic & lubrication fluids. $\beta_{x[c]} = 1000$ ($\beta_x = 200$)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

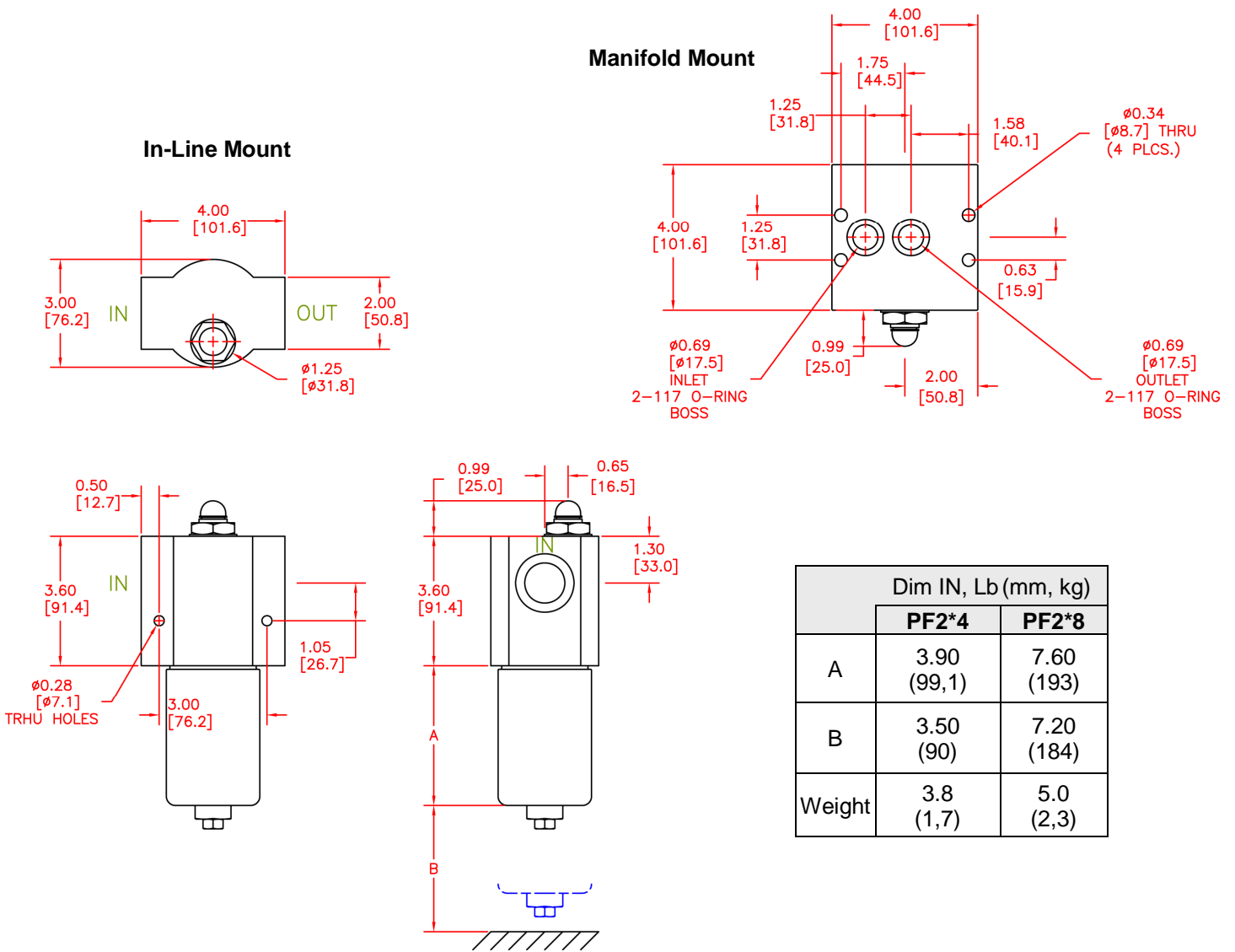
Typical cellulose media performance



Hy-Pro G7 Dualglass media performance



INSTALLATION DRAWING



SPARE PARTS LIST

1	Head	P/N	5	Drain plug	P/N			
	In-line w/bypass valve, w/indicator port			Buna o-ring		PF2DPB		
	In-line w/bypass valve No indicator port			Viton o-ring		PF2DPV		
	In-line No bypass valve, w/indicator port			EPR o-ring		PF2DPE		
	In-line No bypass valve, No indicator port			6		Indicator	PFIVB	
	Top Manifold w/bypass valve, w/indicator port					Visual, Buna o-ring		PFIVV
	Top Manifold w/bypass valve, No indicator port					Visual, Viton o-ring		PFIVE
	Top Manifold No bypass valve, w/indicator port					Visual, EPR o-ring		PFIEB
Top Manifold No bypass valve, No indicator port	Electrical, Buna o-ring	PFIEV						
	Electrical, Viton o-ring	PFIEE						
	Electrical, EPR o-ring	7	Manifold mount kit (includes 2 o-rings)	PF2SKMB				
2	Element (see Element part number guide)		Buna o-ring		PF2SKMV			
3	Bowl seal kit (includes teflon back up ring)	P/N	Viton o-ring	PF2SKME				
			Nitrile Buna					
			Viton Fluorocarbon					
4	Bowl	P/N	EPR					
			Single length w/drain port	PF2B1				
	Double length w/drain port	PF2B2						

