PF2

High Pressure In-line Filter Assembly

Ideal for a variety of applications including mobile applications, paper and saw mills, power generation, general industrial machine tools, and automotive manufacturing. With HF2 compatible port-to-port dimension, mounting pattern, and element design to meet the automotive manufacturing standard.

Max Flow Rate: 20 gpm (76 lpm)

Max Operating Pressure: 4000 psi (275 bar)

 $\underset{\text{HY-PRO}}{\textbf{Donaldson}}.$

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Elements that go beyond industry standard.

G8 Dualglass and PE glass elements are DFE rated to assure performance even when exposed to the toughest hydraulic systems and provide unmatched particulate capture and retention to remove contamination from your hydraulic and lube oils, for good.





Small size, huge results.

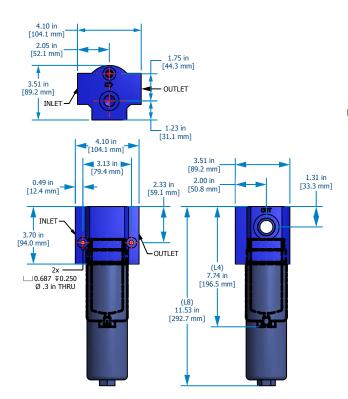
The compact size of PF2 filter assemblies make them the perfect addition directly upstream of your control valves and other sensitive components even in the tightest of spaces. And with two different mounting options to choose from, the incredible versatility of the PF2 makes it ideal for all of your high pressure filter applications.

Works under pressure.

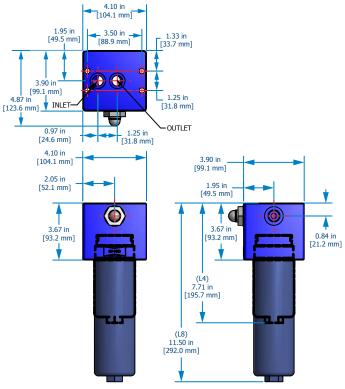
Applications for the PF2 include mobile, general industrial machine tools, paper mills, sawmills, and speed control circuits for power generation systems. So whether you're operating waste haulers, cement mixers, fire trucks, cranes, or CNC routers, you can be sure the PF2 will protect your critical components even when the pressure is on.



In-Line Mount Installation Drawing



Manifold Mount Installation Drawing



PF2 Specifications

Operating Temperature	Fluid Tempe 30°F to 225° (0°C to 105°	°F					Ambient To -4°F to 140 (-20C to 60	°F	re			
Operating Pressure	4000 psi (27	75 bar) max	(· · · · · · · · · · · · · · · · · · ·	·				
Flow Fatigue Rating	2000 psi (13	37 bar)										
Burst Pressure	12,000 psi (827 bar) m	ax									
ΔP Indicator Trigger	35 psid (2.4 70 psid (4.8 100 psid (6.	bard) for 9	0 psid (6.	2 bard) byp								
Element Collapse Rating	Normal Collapse 290 psid (20 bard) High Collapse 3000 psid (206 bard))						
Integral Bypass Setting	50 psid (3.4 90 psid (6.2											
Materials of Construction	Head Anodized aluminum (gradeT6061)			Bowl Anodized aluminum (gradeT6061) Bowl drain #4 SAE standard			Element Bypass Valve Nickel plated/Stainless steel			Element End Caps Zinc orTin coated carbon steel		
Media Description	M G8 Dualglass, our latest generation of DFE rated, high performance glass media for all hydraulic & lubrication fluids. $βx_{[c]} ≥ 4000$			A G8 Dualglass high performance media combined with water removal scrim. $\beta x_{ C } \ge 4000$			SF Dynafuzz stainless steel fiber media $\beta x_{[c]} \ge 4000$			\boldsymbol{W} Stainless steel wire mesh media $\beta x_{[c]} \geq 2 \; (\beta x \geq 2)$		
Replacement Elements	To determine replacement elements, use corresponding codes from your assembly part number Filter Element Part Number HP2[Collapse Rating Code] L[Length Code] – [Media Selection Code] [Seal Code] HP20L4-12MV										number:	
Fluid Compatibility	Petroleum a other specif								, and			
ΔP Factors¹	Collapse	Length	Units	Media	2M	3M	6M	12M	15M	16M	25M	**W
	20	L4	psid/gpi		N/A N/A	1.810 0.033	0.026	1.258 0.023	N/A N/A	1.231 0.022	1.185 0.022	0.213 0.004

0.022 ¹Max flow rates and ∆P factors assume 🛭 = 150 SUS, 32 cSt. See filter assembly sizing guideline for viscosity conversion formula on page 22 for viscosity change.

1.118

0.020

2.287

0.042

1.188

psid/gpm

bard/lpm

psid/gpm bard/lpm

psid/gpm

bard/lpm

N/A

N/A

1.930

0.035

1.003

0.018

0.944

0.017

N/A

N/A

N/A

N/A

0.731

0.013

1.496

0.027

0.777

0.014

0.656

0.012

N/A

N/A

N/A

N/A

N/A

N/A

1.341

0.024

0.672

0.012

0.642

0.012

1.312

0.024

0.657

0.012

0.618

0.011

1.264

0.023

0.647

0.012

0.111

0.002

0.228

0.004

0.116

0.002

L8

L4

L8

21

PF2 Part Number Builder

PF2							_						
	Connection	Coll	apse	Length	Bypass	Indicator	Media	Seal					
Connec	ction	G12 ¹ M12		read (BSPF nifold top m		20 gpn 20 gpn	Max Flow Rate 20 gpm (76 lpm) ² 20 gpm (76 lpm) ² 20 gpm (76 lpm) ²						
Collapse Pating 1 290 psid (20 bard) normal collapse of 3000 psid (206 bard) high collapse of 3000 psid (206 bard) high collapse of 3000 psid (206 bard)													
Elemer Length	nt	4 4" (10 cm) nominal length filter element and housing 8" (20 cm) nominal length filter element and housing											
Bypass	·	3 6 X	•	(3.4 bard) k (6.2 bard) k ass									
ΔP Indicator	cator	Indi	cator O	ptions		Therr	mal Lockout	Surge Contro	I Reset				
		D S V X Y	Visual / Visual	Electrical (Electrical (cator (port only	DIN 43650)	No Yes No - Yes		No Yes No - Yes	Auto Manual Auto – Manual				
Media Selection		$ \begin{array}{llll} \textbf{G8 Dualglass} \\ \textbf{1M} & \beta \textbf{3}_{[c]} \geq 4000 \\ \textbf{2M}^4 & \beta \textbf{5}_{[c]} \geq 4000 \\ \textbf{3M}^5 & \beta \textbf{5}_{[c]} \geq 4000 \\ \textbf{6M} & \beta \textbf{7}_{[c]} \geq 4000 \\ \textbf{12M}^5 & \beta \textbf{12}_{[c]} \geq 4000 \\ \textbf{15M}^4 & \beta \textbf{12}_{[c]} \geq 4000 \\ \textbf{16M} & \beta \textbf{17}_{[c]} \geq 4000 \\ \textbf{25M} & \beta \textbf{22}_{[c]} \geq 4000 \\ \end{array} $				3A ⁵ 6A ⁵	6A ⁵ $\beta 7_{[C]}^{[C]} \ge 4000$ 12A ⁵ $\beta 12_{[C]} \ge 4000$						
		3SF	afuzz sta $\beta 4_{[c]} \ge 4$ $\beta 11_{[c]} \ge$	inless fibe 000 4000	r	10W 25W 40W 74W	25W 25μ nominal 40W 40μ nominal						
Seals		B V E-WS	Nitrile (Fluoroc EPR sea	arbon	ess steel sup	port mesh							

¹Vent connection standard on G12 and S12 models - #4 SAE.

For all up to date option details and compatibilities, please reference our Contamination Solutions Price List or contact customer service.

Want to find out more? Get in touch.

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²Maximum recommended flow rate based on velocity through port and internal flow path. Consult sizing guidelines or consult factory for sizing based on flow rate, viscosity, temperature, filter media selection.

³When chosen, must be paired with Bypass option "3" or "6."

⁴Compatible only with High Collapse Rating option "1."

⁵Not available on High Collapse Rating option "1."