

E8 Low Pressure Filter High Flow Filter Assembly

Ideal for high viscosity lubricating fluids, high flow hydraulic, and heavily contaminated fuel applications. Drop-in mounting interchange for common pulp and paper industry 8300/8310/8314 filter assemblies.

Max Operating Pressure: 500 psi (34.5 bar)





Filtration starts with the filter.

Advanced DFE rated filter elements deliver lower operating ISO Codes with high efficiency particulate removal and retention efficiency. With a range of media options down to β_{cl} > 4000 + water absorbing options, you get the perfect element for your application, every time.





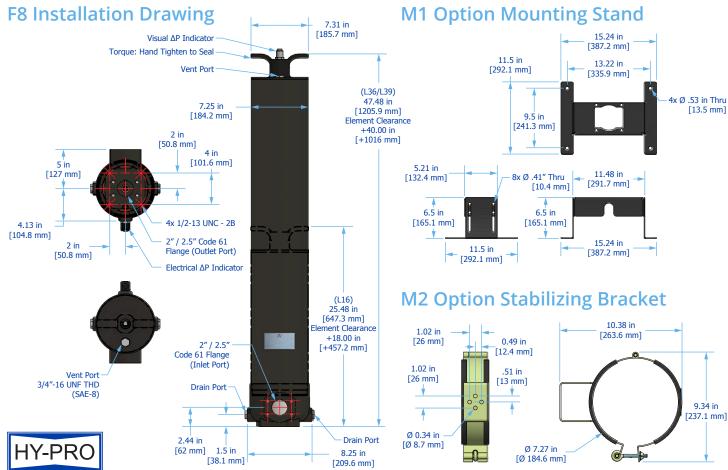
Minimize the mess.

The top loading housing on F8 filter assemblies provide easy and clean access when servicing or changing the element. Accessing the element is as simple as removing the housing cover, meaning you have no heavy bowl to lift and can get back in operation more quickly than ever.

Setting the new (industry) standard.

Designed as a drop-in replacement for industry standard 8300 series filter housings, only the F8 from Hy-Pro gives you the flexibility to choose from numerous DFE rated filter arrangements. Even upgrade your existing 83** series filter elements with the HP107 series to get a new integral bypass valve with every filter.





F8 Specifications

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Dimensions	See Installation Drawings on	page 2 for model specific dime	ensions.						
Operating Temperature	-20°F to 250°F (-29°C to 121°C)								
Operating Pressure	500 psi (34.5 bar) max								
ΔP Indicator Trigger	15 psi (1 bar): 25 psid bypass 35 psi (2.4 bar): 50 psid bypass + non bypass								
Materials of Construction	Head/Lid Cast aluminum (coated)		Bowl Industrial coated 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. $βx_{[C]} ≥ 4000$	W Stainless steel wire mesh media $\beta x_{[C]} \ge 2$	VTM β0.9 _[C] ≥ 4000 particulate, insoluble oxidation by-product and water removal media					
Replacement Elements	To determine replacement Type Code 5 6 7	sponding codes from yer dia Selection Code][Seal Code dia Selection Code][Seal Code dia Selection Code][Seal Code] HP106L16-10MV						
	32 35	HP8310L[Length Code] - [Me HP8310L[Length Code] - [Me							
	HP8314L[Length Code] – [Media Selection Code][Seal Code] HP8314L39–25WV HP8314L[Length Code] – [Media Selection Code][Seal Code] HP8314L16–12MB HP8314L[Length Code] – [Media Selection Code][Seal Code] HP8314L39–16ME–WS								
Fluid Compatibility	Petroleum and mineral based fluids, #2 diesel fuels (standard). For polyol ester, phosphate ester, and other specified synthetic fluids use fluorocarbon seal option or contact factory.								
Filter Assembly	Filter assembly clean element ΔP after actual viscosity correction should not exceed 10% of filter assembly bypass setting. For applications with extreme cold start condition contact Hy-Pro for sizing recommendations.								
Sizing ¹	Step 1: Calculate ΔP coefficient for actual viscosity								
	Using Saybolt Universal Se	conds (SUS)	Using Centistokes (cSt)						
	ΔP = Actual Operar Viscosity1 (SU			Operating Actual Specific Gravity					
	150	0.86		32 0.86					
	Step 2: Calculate actual clean filter assembly ΔP at both operating and cold start viscosity								
	Actual Assembly Clean ΔP = Flow Rate X ΔP Coefficient (from Step 1) X Assembly ΔP Factor (from sizing table								
 ΔP Factors¹	Length Units M	 1edia							

$\Delta \Gamma$ Γ α CCO Γ 3	20118011	011103	meana							
			1M	3M	6M	10M	16M	25M	**W	
	16/18	psid/gpm	0.0463	0.0391	0.0303	0.0271	0.0266	0.0256	0.0046	
		bard/lpm	0.0008	0.0007	0.0006	0.0005	0.0005	0.0005	0.0001	
	36/39	psid/gpm	0.0324	0.0273	0.0212	0.0190	0.0186	0.0179	0.0032	
		bard/lpm	0.0006	0.0005	0.0004	0.0003	0.0003	0.0003	0.0001	

 $^{^{1}}$ Max flow rates and ΔP factors assume υ = 150 SUS, 32 cSt. See filter assembly sizing guideline for viscosity conversion formula.



F8 Part Number Builder

F8					
Connection	Element Type Element Length Indicator Special Options Media	Seal			
Connection	Port Option Max Flow Rate F32 2" Code 61 flange 300 gpm (1,136 lpm)¹ F40 2.5" Code 61 flange 300 gpm (1,136 lpm)¹				
Element Type	 HP105 – no bypass HP106 – 25 psid (1.7 bard) integral element bypass HP107 – 50 psid (3.4 bard) integral element bypass 	 HP8310 – 25 psid (1.7 bard) integral housing bypass HP8310 – 50 psid (3.4 bard) integral housing bypass HP8314 – no bypass HP8314 – 25 psid (1.7 bard) integral housing bypass HP8314 – 50 psid (3.4 bard) integral housing bypass 			
Element Length	 16 L16 single length filter housing 36² L36 single length filter housing 39² L39 single length filter housing 				
ΔP Indicator	Indicator Options D Visual / Electrical (DIN 43650) DX Electrical switch only (DIN 43650) S Visual / Electrical (DIN 43650) T Visual / Electrical (DIN 43650) V Visual/Mechanical X No indicator (port plugged) Y Visual only	Thermal Lockout No			
Special Options	M1 Mounting stand for base mount applicationsM2 Stabilizing bracket				
Media Selection	G8 Dualglass 1M β3 _[c] ≥ 4000 3M β4 _[c] ≥ 4000 6M β6 _[c] ≥ 4000 10M³ β11 _[c] ≥ 4000 16M β16 _[c] ≥ 4000 25M β22 _[c] ≥ 4000	G8 Dualglass + water removal 3A $\beta 4_{[c]} \ge 4000$ 6A $\beta 6_{[c]} \ge 4000$ 10A ³ $\beta 11_{[c]} \ge 4000$ 25A $\beta 22_{[c]} \ge 4000$			
	Dynafuzz stainless fiber 3SF $\beta4_{[c]} \ge 4000$ 6SF $\beta6_{[c]} \ge 4000$ 10SF $\beta11_{[c]} \ge 4000$ 25SF $\beta22_{[c]} \ge 4000$	Stainless wire mesh 25W 25μ nominal 40W 40μ nominal 74W 74μ nominal 149W 149μ nominal			

Want to find out more? Get in touch.

Nitrile (Buna)

Fluorocarbon

E-WS EPR seals + stainless steel support mesh

hyprofiltration.com info@hyprofiltration.com +1 317 849 3535

Seals



¹Maximum 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. ²Compatibility will be based on Element Type selection. For elements HP105, HP106, and HP107, use Length Code 36. Length Code 39 only compatible with HP8310 and HP8314. ³For elements HP8310 and HP8314, use 12M or 12A for respective media code in place of 10M or 10A.