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)



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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_{c}^3 > 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.

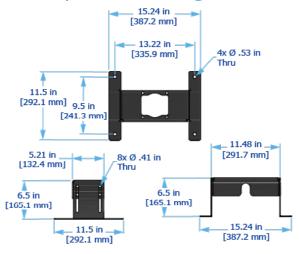
Designed as a drop-in replacement for industry standard 8300 series filter housings, only the F8 from Hy-Pro gives you the flexibility to choose from numerous DFE rated filter arrangements. Even upgrade your existing 83** series filter elements with the HP107 series to get a new integral bypass valve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



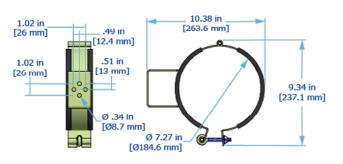
F8 Installation Drawing

7.31 in VISUAL AP INDICATOR [185.7 mm] TORQUE: HAND TIEGHTEN TO SEAL VENT PORT [184.2 mm] 2 in 4 in [50.8 mm] [101.6 mm] 5 in (L36/L39) 47.48 in [127 mm] [1205.9 mm] 4.13 in ELEMENT REMOVAL [104.8 mm] CLEARANCE + 40.00" 4x 1/2-13 UNC -2" / 2.5" CODE 61 FLANGE (OUTLET PORT) 2 in [50.8 mm] ELECTRICAL AP INDICATOR (L16) 25.48 in [647.3 mm] **ELEMENT REMOVAL** CLEARANCE + 18.00" 2" / 2.5" CODE 61 FLANCE (INLET PORT) VENT PORT 3/4' - 16 UNF THD (SAE-8) DRAIN PORT 2.44 in 1.5 in 8.25 in. [62 mm] [38.1 mm] [209.6 mm]

M1 Option Mounting Stand



M2 Option Stabilizing Bracket



F8 Specifications

Dimensions	See Installation Drawings on r	2 for model specific dim	encions					
Dimensions	See Installation Drawings on page 2 for model specific dimensions.							
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 bypas	s + 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 $\beta3_{[C]}$ ≥ 4000 particulate, insoluble oxidation by-product and water removal media				
Replacement Elements	To determine replacement Type Code 5 6 7	Filter Element Part Number HP105L[Length Code] – [Med HP106L[Length Code] – [Med	sponding codes from you er dia Selection Code][Seal Code] dia Selection Code][Seal Code] dia Selection Code][Seal Code]	assembly part number Example HP105L36-6AB HP106L16-10MV HP107L36-1MV				
	32 35		edia Selection Code][Seal Code] edia Selection Code][Seal Code]	HP8310L16-25AV HP8310L39-3MB				
	8X 82 85	HP8314L[Length Code] - [Me	edia Selection Code][Seal Code] edia Selection Code][Seal Code] edia Selection Code][Seal Code]	HP8314L39-25WV HP8314L16-12MB 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 coeff	icient for actual viscosity						
	Using Saybolt Universal Sec	onds (SUS)	Using Centistokes (cSt)					
	ΔP = Actual Operati Viscosity1 (SU		r ΔP = Actual Ope Coefficient =	0				
	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	edia // 3M 6M	10M 16M	25M **W				

0.0391

0.0007

0.0273

0.0005

0.0303

0.0006

0.0212

0.0004

0.0271

0.0005

0.0190

0.0003

0.0463

0.0008

0.0324

0.0006

16

36/39

psid/gpm

bard/lpm

psid/gpm bard/lpm



0.0046

0.0001

0.0032

0.0001

0.0256

0.0005

0.0179

0.0003

0.0266

0.0005

0.0186

0.0003

 $^{^1}$ Max flow rates and 2 P factors assume 0 = 150 SUS, 32 cSt. See filter assembly sizing guideline for viscosity conversion formula on page 22 for viscosity change.

F8 Part Number Builder

F8					-		-		
	Connection	Element Type	Element Length	Indicator		Special Options		Media	Seal

Connection		C Option 2" Code 61 flange 2.5" Code 61 flange	Max Flow Rate 300 gpm (1,136 lpm) ¹ 300 gpm (1,136 lpm) ¹				
Element Type	5 6 7	HP105 – no bypass HP106 – 25 psid (1.7 bard) integral element bypass HP107 – 50 psid (3.4 bard) integral element bypass		32 35 8X 82 85	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 36 ² 39 ²	L16 single length filter housi L36 single length filter housi L39 single length filter housi	ing				
ΔP Indicator	Indie D S V X Y	cator Options Visual / Electrical (DIN 43650 Visual / Electrical (DIN 43650 Visual No indicator (port plugged) Visual	,	The No Yes No - Yes	ermal Lockout	Surge Control No Yes No - Yes	Reset Auto Manual Auto - Manual
Special Options	M1 M2	Mounting stand for base mo Stabilizing bracket	ount applications				
Media Selection	0.5M 1M 3M 6M 10M ³	Dualglass $ β0.9_{[C]} \ge 4000 $ $ β3_{[C]} \ge 4000 $ $ β4_{[C]} \ge 4000 $ $ β6_{[C]} \ge 4000 $ $ β11_{[C]} \ge 4000 $ $ β16_{[C]} \ge 4000 $ $ β22_{[C]} \ge 4000 $		3A	Dualglass + wat $\beta 4_{[C]} \ge 4000$ $\beta 6_{[C]} \ge 4000$ $\beta 11_{[C]} \ge 4000$ $\beta 22_{[C]} \ge 4000$	er removal	
	Dynafuzz stainless fiber 3SF $\beta 4_{[c]} \ge 4000$ 6SF $\beta 6_{[c]} \ge 4000$ 10SF $\beta 11_{[c]} \ge 4000$ 25SF $\beta 22_{[c]} \ge 4000$			Stainless wire mesh 25W 25μ nominal 40W 40μ nominal 74W 74μ nominal 149W 149μ nominal			
Seals	B V E-WS	Nitrile (Buna) Fluorocarbon EPR seals + stainless steel su	upport mesh				

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.

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

Want to find out more? Get in touch.

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

