F8

Medium 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} > 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.

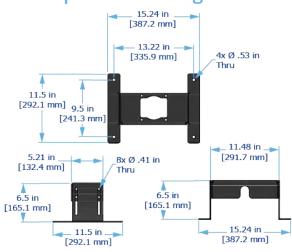
Designed as a drop-in replacement for industry standard 8300 series filter housings, only the F8 from Hy-Pro gives you the flexibility to choose from numerous DFE rated filter arrangements. Even upgrade your existing 83** series filter elements with the HP107 series to get a new integral bypass valve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



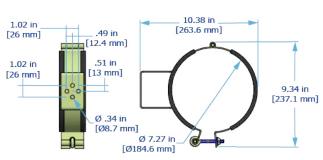
F8 Installation Drawing

7.31 in VISUAL AP INDICATOR [185.7 mm] TORQUE: HAND TIEGHTEN TO SEAL VENT PORT 7.25 in [184.2 mm] 2 in 4 in [50.8 mm] [101.6 mm] 5 in (L36/L39) [127 mm] 47.48 in [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] FLEMENT REMOVAL CLEARANCE + 18.00' 2" / 2.5" CODE 61 FLANGE (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

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Dimensions	See Installat	tion Drawings	on page 19	1 for model sp	pecific dime	ensions.					
Operating Temperature	-20°F to 250 (-29°C to 12										
Operating Pressure	500 psi (34.	5 bar) max									
ΔP Indicator Trigger		r): 25 psid bypo par): 50 psid by		bypass							
Materials of Construction	Head/Lid Cast aluminum (coated)					Bowl Industrial coated steel					
Media Description	generation high perform media for a	s, our latest of DFE rated, mance glass Il hydraulic & fluids. βx _[c] ≥ 4	perfor combi remov	alglass high mance media ned with wate al scrim. βx _[C]	er	W Stainless steel v mesh media βx		VTM $\beta 3_{[c]} \ge 4000$ particulate, insoluble oxidation by-product and water removal media			
Replacement Elements	To determine replacement elements, use corresp Element Type Code Filter Element Part Number 5 HP105L[Length Code] - [Media 6 HP106L[Length Code] - [Media 7 HP107L[Length Code] - [Media					Selection Code][Selection Code][Seal Code] Seal Code]	assembly part number: Example HP105L36-6AB HP106L16-10MV HP107L36-1MV			
	32 HP8310L[Length Code] – [Med 35 HP8310L[Length Code] – [Med										
	8X 82 85		HP831	4L[Length Cod	lia Selection Code][Seal Code] HP8314L39–25WV lia Selection Code][Seal Code] HP8314L16–12MB lia Selection Code][Seal Code] HP8314L39–16ME–WS						
Fluid Compatibility). For polyol esto on or contact fa		ester,			
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 Sayb	olt Universal	Seconds (S	SUS)	Using Centistokes (cSt)						
	ΔΡ	Actual Op Viscosity	(CLIC)			ΔP =	Actual Oper Viscosity ¹		Actual Specific Gravity		
	Coefficient	150)			Coefficient	32		0.86		
	Step 2: Calculate actual clean filter assembly ΔP at both operating and cold start viscosity										
	Actual Ass	embly Clean Δ	P = F	low Rate X	ΔP Coeffi	cient (from Step	1) X Asse	embly ΔP Facto	or (from sizing table)		
ΔP Factors ¹	Length	Units	Media 1M	3M	6L	10M	16M	25M	**W		
	16	psid/gpm	0.0463	0.0391	0.0303		0.0266	0.0256	0.0046		
	36/39	bard/lpm psid/gpm	0.0008	0.0007	0.0006		0.0005	0.0005	0.0001		
	30.03	bard/lpm	0.0006	0.0005	0.0004		0.0003	0.0003	0.0001		

 1 Max flow rates and $^{\Delta}$ P factors assume U = 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		t 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			 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 housing L36 single length filter housing L39 single length filter housing							
ΔP Indicator	Indi 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	rmal Lockout	Surge Control No Yes No - Yes	Reset Auto Manual Auto - Manual		
Special Options	M1 M2	Mounting stand for base mour Stabilizing bracket	nt applications						
Media Selection	0.5M 1M 3M 6L 10M	Dualglass I $β0.9_{[c]} ≥ 4000$ $β3_{[c]} ≥ 4000$ $β4_{[c]} ≥ 4000$ $β7_{[c]} ≥ 4000$ $β7_{[c]} ≥ 4000$ $β11_{[c]} ≥ 4000$ $β16_{[c]} ≥ 4000$ $β22_{[c]} ≥ 4000$		3A 6A 10A	Dualglass + wat $\beta 4_{[c]} \ge 4000$ $\beta 6_{[c]} \ge 4000$ $\beta 11_{[c]} \ge 4000$ $\beta 22_{[c]} \ge 4000$	er removal			
	3SF 6SF 10SF	afuzz stainless fiber $β4_{[c]} \ge 4000$ $β6_{[c]} \ge 4000$ $β11_{[c]} \ge 4000$ $β22_{[c]} \ge 4000$		25W 40W 74W	nless wire mes 25µ nominal 40µ nominal 74µ nominal V 149µ nominal	h			
Seals	B V E-WS	Nitrile (Buna) Fluorocarbon EPR seals + stainless steel supp	port mesh						

Maximum 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. Compatibility 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. For 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.

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