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 Flow Rate: 300 gpm (1,136 lpm)

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 $\beta 3_{[c]} > 4000$ + 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.

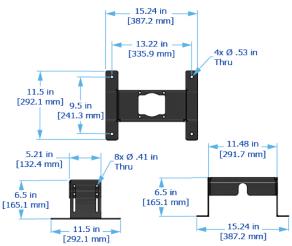
Designed as a drop-in replacement for industry standard 8300 series filter housings, only the F8 from Donaldson Hy-Pro gives you the flexibility to choose from numerous DFE rated filter arrangements. Even upgrade your existing 83** series filter elements with the HP107 series to get a new integral bypass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



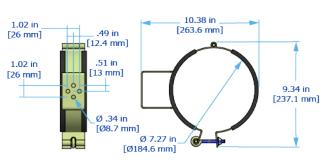
F8 Installation Drawing

VISUAL AP INDICATOR 7.31 in TORQUE: HAND TIEGHTEN TO SEAL [185.7 mm] 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] ELEMENT REMOVAL CLEARANCE + 18.00' 2" / 2.5" CODE 61 FLANGE VENT PORT (INLET 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 Installs	ation Drawings	s for model s	enecific dimen	eione							
Dimensions	Jee mstand	ation brawing:	s for frioders	specific diffier	1510115.							
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 alumi	num (coated)		Bowl Industrial coated steel								
Media Description	generation high perfor media for a	ess, our latest of DFE rated, rmance glass all hydraulic & fluids. βx _[c] ≥ 4	perfori combi remov	alglass high mance media ned with wate al scrim. βx _[c]		W Stainless steel mesh media β		VTM $\beta 0.9_{_{[C]}} \geq 4000 \ particulate, \\ insoluble oxidation \\ by-product and water \\ removal media$				
Replacement Elements	To detern Element Ty 5 6 7		Filter E HP1051 HP1061	ent elements, use corresponding codes from your assembly part number Filter Element Part Number HP105L[Length Code] – [Media Selection Code][Seal Code] HP106L[Length Code] – [Media Selection Code][Seal Code] HP107L[Length Code] – [Media Selection Code][Seal Code] HP107L36–1MV								
	32 35			HP8310L[Length Code] – [Media Selection Code][Seal Code] HP8310L[Length Code] – [Media Selection Code][Seal Code]					HP8310L16–25AV HP8310L39–3MB			
	8X 82 85		HP8314	1L[Length Code 1L[Length Code 1L[Length Code	HP8314L16-	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.											
ΔP Factors ¹	Length	Units	Media 1M	3M	6L	10M	16M	25M	**W			
	16	psid/gpm	0.0463	0.0391	0.0303	3 0.0271	0.0266	0.0256	0.0046			
		bard/lpm	0.0008	0.0007	0.0006		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			

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



F8 Part Number Builder

F8]_						
Connection	Element Typ	e Element Length	 Indicator	Special Options	Media	Seal					
Connection		ption 2" Code 61 fla 2.5" Code 61 f			w Rate (1,136 lpm) ¹ (1,136 lpm) ¹						
Element Type	6 H 7 H	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					 35 HP8310 – 50 psid (3.4 bard) integral housing bypass 8X HP8314 – no bypass 82 HP8314 – 25 psid (1.7 bard) integral housing bypass 85 HP8314 – 50 psid (3.4 bard) integral housing bypass 				
Element Length	36 ² L	.16 single leng .36 single leng .39 single leng	gth filter hous	sing							
ΔP Indicator	D \ \ \ S \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	tor Options /isual / Electri /isual / Electri /isual / Electri /isual / Electri /isual Only No indicator (p	cal (DIN 4365) cal (DIN 4365) cal (DIN 4365)	0)		Therma No Yes Yes No - Yes	al Lockout	Surge Control No Yes Yes No - Yes	Reset Auto Manual Manual Auto - Manual		
Special Options		Mounting stand for base mount applications Stabilizing bracket									
Media Selection	1M β 3M β 6L β 10M³ β 16M β	alglass $30.9_{[c]} \ge 4000$ $33_{[c]} \ge 4000$ $44_{[c]} \ge 4000$ $67_{[c]} \ge 4000$ $611_{[c]} \ge 4000$ $611_{[c]} \ge 4000$ $611_{[c]} \ge 4000$ $611_{[c]} \ge 4000$				3A β4 6A β6 10A ³ β1	alglass + wa $t_{ C }$ ≥ 4000 $t_{ C }$ ≥ 4000 $t_{ C }$ ≥ 4000 $t_{ C }$ ≥ 4000	iter removal			
	Dynafuzz stainless fiber 3SF $β4_{ c } ≥ 4000$ 6SF $β6_{ c } ≥ 4000$ 10SF $β11_{ c } ≥ 4000$ 25SF $β22_{ c } ≥ 4000$					Stainless wire mesh 25W 25µ nominal 40W 40µ nominal 74W 74µ nominal 149W 149µ nominal					
Seals	V F	Nitrile (Buna) Fluorocarbon EPR seals + sta	ainless steel s	support 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 ElementType 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.

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