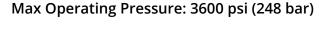
DFH

High Pressure Duplex Filter Assembly

The DFH series is designed to remove particulate and water from a variety of fluids including hydrogen seal oil, turbine lube oil, bearing lube oil, and FD-ID-PA fan lube. Applicable for wind turbine, boiler feed pump, mechanical/electro hydraulic control, and fuel handling systems.

Ideal for systems where filters must be serviced while continuous operation is not interrupted such as hydraulic, gearbox, and servo systems.





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Elements that go beyond industry standard.

DFE rated advanced media technologies provide the highest level of particulate capture and retention capabilities so your equipment operates unimpeded by contamination. With media options down to $\beta3_{[C]} \ge 4000$, + water absorption, you get the perfect element for your application, every time.





Two positions, one result.

DFH39

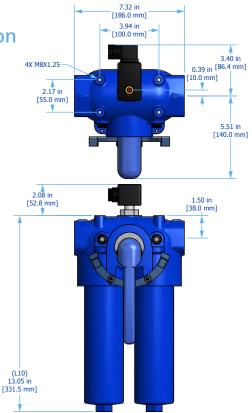
DFH housings provide unmatched in-line filtration with incredible ease of use. With a squeeze of the trigger and turn of the wrist, you'll introduce a new element to your fluid while simultaneously valving the used element out of service to easily change and replace, all while your system continues operating at full capacity.

All duplexes are not created equal.

Air in any lube system can quickly cause failure and force you to take your system down for maintenance. DFN assemblies utilize internal equalization and external vent ports to automatically push oil into and purge air out from the unused housing without any added effort.

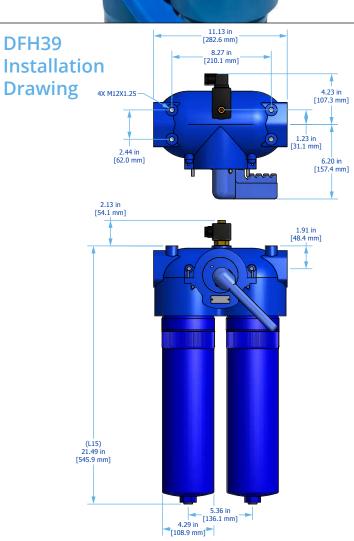


DFH19 Installation **Drawing**





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DFH Specifications

<u> </u>	C It-I	lation Doors				-1:						
Dimensions	See Instal	lation Drawi	ng on previous _l	page for mod	del specific	dimensions.						
Operating Temperature	Fluid Ten 30°F to 22 (0°C to 10				Ambient Temperature -4°F to 140°F (-20C to 60C)							
Operating Pressure	DFH19 3600 psi (248.2 bar) max					DFH39 3000 psi (206.8 bar) max						
ΔP Indicator Trigger	73 psid (5	bard)										
Element Collapse Rating	450 psid ((31.0 bard)										
Materials of Construction	Head Cast steel			Bowl Cast stee	Bowl Cast steel				Housing Bypass Valve Steel			
Media Description	of DFE rat	lass, our late ted, high per dia for all hyo n fluids. βx _{ις}	draulic &	media co	lass high p mbined wi scrim. βx _[c]			W Stainless steel wire mesh media $\beta x_{[C]} \ge 2$ ($\beta x \ge 2$)				
Replacement Elements	To determine replacement elements, use corresponding codes from your assembly part in Series Code Filter Element Part Number HP19[Collapse Code] L [Length Code] - [Media Selection Code][Seal Code] HP19HL6-10ME HP39[Collapse Code] L [Length Code] - [Media Selection Code][Seal Code] HP39NL6-6AV)MB		
Fluid Compatibility	Biodegrad	dable and m	ineral based flui	ds. For high	water base	ed of specified	synthetics	, consult fact	tory.			
Filter Assembly Sizing ¹	Filter assembly clean element ΔP after actual viscosity correction should not exceed 10% of filter assembly bypass setting. See below for viscosity correction formula. For applications with extreme cold start condition contact Hy-Pro for sizing recommendations.											
	Step 1: Calculate ΔP coefficient for actual viscosity											
	ΔΡ	Actua _ Visco	versal Secon al Operating osity1 (SUS)	Actual Spe		Using Centis	Actua	Actual Operating Viscosity¹ (cSt) Actual Special Gravity				
	Coefficier	nt ——	150	0.86		Coefficient		32		0.86		
	Step 2:	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 t											
ΔP Factors ¹	Model	Length	Units	Media 1M	3M	6M	10M	16M	25M	**W		
	DFH19	L10	psid/gpm bard/lpm	1.494 0.0272	1.261 0.0230	1.042 0.0190	0.782 0.0142	0.649 0.0118	0.625 0.0114	0.313 0.0057		
	DFH39	L15	psid/gpm bard/lpm	0.463 0.0084	0.391 0.0071	0.301 0.0055	0.266 0.0048	0.218 0.0040	0.210 0.0038	0.117 0.0021		

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



DFH Part Number Builder

DFH Series	Co	onnection	Collapse	Length	Bypass	ΔP Indicator	■ Media	Seal				
Series	19 39	25 gpm 70 gpm	(95 lpm) max (265 lpm) max	oflow rate ax flow rate								
Connection	DFH F16 ²		61 flange		DFH39 F24 ² 1½" Code 61 flange							
Collapse	H N		id (206.8 bar d (31.0 bard)	d)								
Element Length	DFH 10		cm) nominal	length filter (element and l		FH39 5 15" (38	cm) nominal le	ength filter eler	nent and housing		
Bypass	7 X	102 psid No bypa	l (7 bard) bypa ass	ass								
ΔP Indicator	D V X	Visual/N	vith electric so Mechanical cator (port pl		onnection)							
Media Selection	G8 [1M 3M 6M 10M 16M 25M	I $\beta_{5[c]}^{[c]}$ ≥ 4000 I $\beta_{7[c]}^{[c]}$ ≥ 4000 M $\beta_{7[c]}^{[c]}$ ≥ 4000 M $\beta_{7[c]}^{[c]}$ ≥ 4000			G8 Dualglass + water removal 3A ³ β _[c] \geq 4000 6A ³ β _[c] \geq 4000 10A ³ β _{12[c]} \geq 4000 25A ³ β _{22[c]} \geq 4000			Stainless wire mesh 25W 25μ nominal 40W 40μ nominal 74W 74μ nominal 149W 149μ nominal				
Seals	B V	Nitrile (E Fluoroca										

When selected, must be paired with Seal option "V." Contact factory for more information or assistance in fluid compatibility.
Metric threads for flange connection bolts. See Appendix for exact connection sizes and specifications.

Water Removal Media available only with Collapse option "N."

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



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