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.

Max Operating Pressure: 3600 psi (248 bar)



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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

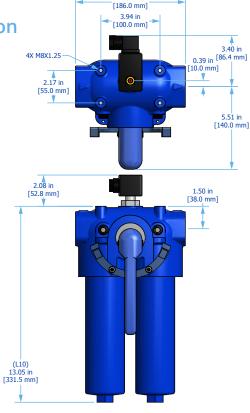
DFH housings provide unmatched in-line filtration with incredible ease of use. With a squeeze of the trigger and turn of the wrist, you'll introduce a new element to your fluid while simultaneously valving the used element out of service to easily change and replace, all while your system continues operating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



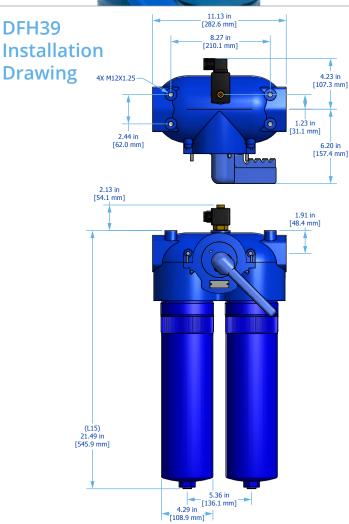
DFH19 Installation **Drawing**



7.32 in



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DFH Specifications

Dimensions	See Installation Drawing on previous page for model specific dimensions.										
Operating Temperature	Fluid Temperature 30°F to 225°F (0°C to 105°C)			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	I			Housing Bypass Valve Steel				
Media Description	M G8 Dualglass, our lat of DFE rated, high pe glass media for all hy lubrication fluids. βx	erformance ydraulic &	media co	A G8 Dualglass high performance media combined with water removal scrim. $βx_{[C]} ≥ 4000$				W Stainless steel wire mesh media $\beta x_{[C]} \ge 2 \ (\beta x \ge 2)$			
Replacement Elements	To determine replacement elements, use corresponding codes from your assembly part number: Series Code Filter Element Part Number HP19[Collapse Code] L [Length Code] - [Media Selection Code][Seal Code] HP19HL6-10MB HP39[Collapse Code] L [Length Code] - [Media Selection Code][Seal Code] HP39NL6-6AV										
Fluid Compatibility	Biodegradable and r	mineral based fluid	ds. For high	water base	ed of specified	d synthetics	, consult fact	ory.			
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										
	Using Saybolt Ur	niversal Second	Using Centistokes (cSt)								
	Actι ΔP Viso	ual Operating cosity1 (SUS)	ecific /	Actual Operating Actual Spec ΔP _ Viscosity¹ (cSt) Gravity							
	Coefficient =		Coefficient		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	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		

[·]max now rates and DP factors assume 0 = 150 505, 52 cst. See litter assembly sizing guideline for viscosity conversion formula on page 22 for viscosity change



DFH Part Number Builder

DFH							_				
Series	С	onnection	Collapse	Length	Bypass	ΔP Indicator	Media	Seal			
Series	19 39										
Connection		FH19 6 ² 1" Code 61 flange					DFH39 F24 ² 1½" Code 61 flange				
Collapse	H N	3000 psid (206.8 bard) 450 psid (31.0 bard)									
Element Length	DFH 10	DFH39 10" (25 cm) nominal length filter element and housing 15 15" (38 cm) nominal length filter element and housing							nent and housing		
Bypass	7 X	102 psid No bypa	l (7 bard) bypa ass	ass							
ΔP Indicator	D V X	Visual with electric switch (DIN connection) Visual/Mechanical No indicator (port plugged)									
Media Selection	G8 I 1M 3M 6M 10M 16M 25M	β17 _[C] ≥	$\cap \cap \cap$		G8 Dualglass + wate 3A³ $\beta 5_{[c]} \ge 4000$ 6A³ $\beta 7_{[c]} \ge 4000$ 10A³ $\beta 12_{[c]} \ge 4000$ 25A³ $\beta 22_{[c]} \ge 4000$		emoval	25W 2 40W 4 74W 7	Stainless wire mesh 25W 25μ nominal 40W 40μ nominal 74W 74μ nominal 149W 149μ nominal		
Seals	B V	Nitrile (E Fluoroca									

¹When selected, must be paired with Seal option "V." Contact factory for more information or assistance in fluid compatibility. ²Metric threads for flange connection bolts. See Appendix for exact connection sizes and specifications.

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



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