

Low Pressure Duplex Filter Assembly

Designed to maintain continuous filtration, even throughout element servicing, the DFN series filter assemblies provide a compact and user-friendly 4-way, 2 position housing completely sealed from the atmosphere. 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.

Ideal for systems where filters must be serviced without system interruption such as hydraulic, gearbox, wind turbine, boiler feed pump, mechanical/electro hydraulic control, and servo systems.

Max Operating Pressure: 888 psi (61.2 bar)

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Two positions, one result.

DFN 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.

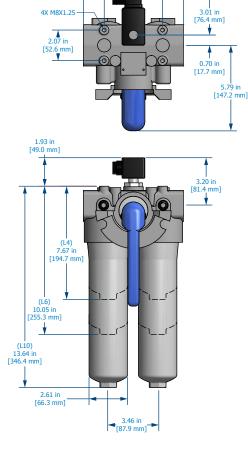
Air in any lube system can quickly cause failure and force you to take your system down for maintenance. DFN assemblies utilize internal equalization and external vent ports to automatically push oil into and purge air out from the unused housing without any added effort.

Elements that go beyond industry standard.

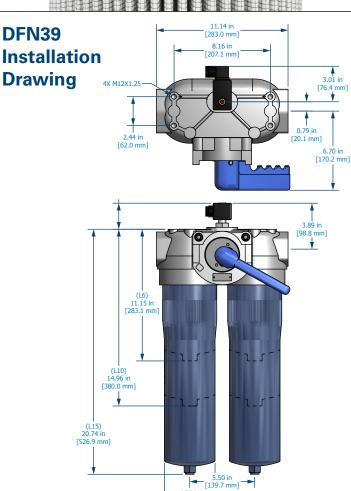
DFE rated advanced media technologies provide the highest level of particulate capture and retention capabilities so your equipment operates unimpeded by contamination. With media options down to $\beta 3_{[c]} \ge 4000$ + water absorption, you get the perfect element for your application, every time.



DFN19 Installation Drawing



[172.0 mm

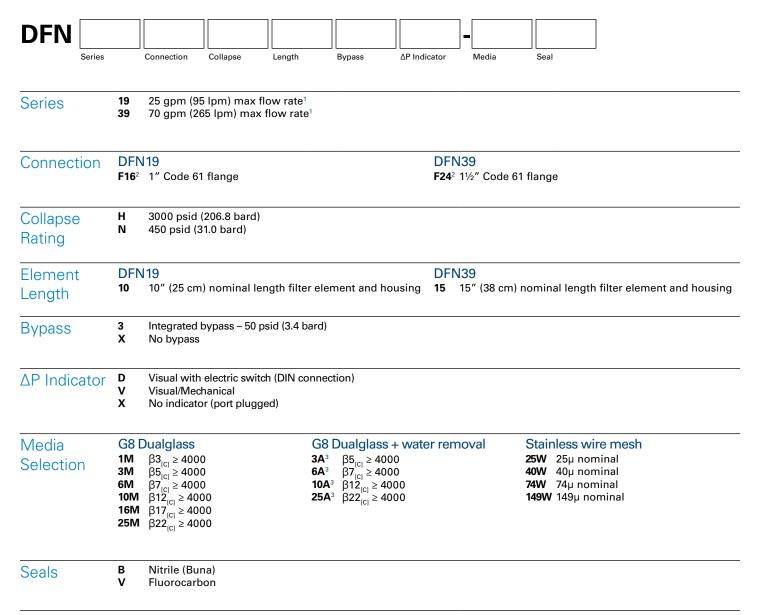


1.29 In [108.9 mm]►

DFN Specifications

Dimensions	See Installation Drawing	for model spe	cific dimer	sions.					
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	DFN19 888 psi (61.2 bar) max			DFN39 350 psi (24.1 bar) max					
ΔP Indicator Trigger	32 psid (2.21 bard)								
Element Collapse Rating	Normal Collapse (Collapse Option N) 450 psid (31.0 bard)			High Collapse (Collapse Option H) 3000 psid (206.8 bard)					
Materials of Construction	Head Aluminum	Bowl L10 – Alu L15 – Ste			Interior Coa Anodized	ting			
Media Description	M G8 Dualglass, our latest generation of DFE rated, high performance glass media for all hydraulic & lubrication fluids. $\beta x_{[c]} \ge 4000$				ith water media $\beta x_{ C } \ge 2 \ (\beta x \ge 2)$				
Replacement Elements	To determine replacement elements, use corresponding codes from your assembly part nur Series Code Filter Element Part Number Example 19 HP19[Collapse Code] L [Length Code] – [Media Selection Code][Seal Code] HP19HL6-10MB 39 HP39[Collapse Code] L [Length Code] – [Media Selection Code][Seal Code] HP39NL6-6AV							rt number:	
Fluid Compatibility	Biodegradable and mine	eral based fluid	s. For high	water bas	ed of specifie	ed synthetic	s, consult fa	actory.	
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 Donaldson Hy-Pro for sizing recommendations.								
	Step 1: Calculate ΔP coefficient for actual viscous Using Saybolt Universal Seconds (SUS) Actual Operating Actual Specific Viscosity1 (SUS) X Gravity Coefficient				Using Centistokes (cSt) Actual Operating Coefficient Actual Specific Gravity				
		50	0.86				32		0.86
	Step 2: Calculate a			•	ΔP at bot	•	А	old start ssembly ΔP I from sizing t	actor
ΔP Factors ¹	Model Length	Units	Media 1M	3M	6M	10M	16M	25M	**W
	DFN19N L10 DFN39N L15	psid/gpm bard/lpm psid/gpm	1.4943 0.0272 0.4633	1.2610 0.0230 0.3910	1.0420 0.0190 0.3010	0.7820 0.0142 0.2660	0.6489 0.0118 0.2180	0.6250 0.0114 0.2100	0.3130 0.0057

DFN Part Number Builder



When selected, must be paired with Seal option "V." Contact factory for more information or assistance in fluid compatibility.

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



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



²Metric threads for flange connection bolts. See Appendix for exact connection sizes and specifications

³Water Removal Media available only with Collapse option "N."