LVHF Series

High Flow | Low Viscosity Housing Filter 150 psi • up to 211-951 gpm



Model no. of filter in photograph is: LVHF340NVBRFZZA

Features

- Excellent filtration performance in a single pass
- Low pressure loss due to innovative element technology
- Easy to service thanks to intelligent element design
- Easy to adapt to filter housings for the removal of the fine particles in diesel
- The Low Viscosity-Housing Filter LVH-F is mainly used to filter low-viscosity fluids. It is especially suitable for applications with large amounts of dirt that need to be removed in just a single pass
- The Optimicron[®] filter elements used here ensure that both the required cleanliness and a long service life are achieved.
- Available in various sizes, the filters can be optimally integrated into new or existing systems.
- The filters are designed according to ASME Code Section VIII rules and regulations for pressure vessels as well as the ability to certify to other global standards upon request.

Applications

- Point of use fuel dispensing
- Fleet fill/bulk fuel transfer
- Bulk fuel unloading
- Protection for high-flow fuel injection systems
- Bulk tank kidney loop/recirculation

Markets

- Industrial
- Bulk Fuel Filtration
- Marine
- Mining Technology
- AgriculturePower Generation

Technical Specifications

•	
Flow Rating	211-951 gpm (799-3600 L/min)
Inlet/Outlet Connection	ANSI 150#: 2"-12" DIN: DN50-DN300
Max. Operating Pressure	150 psi (10 bar)
Max. Ambient Temperature	122°F (50°C)
Max. Operating Temperature	158°F (70°C)
Material Housing	Stainless Steel or Carbon Steel

	<u>LVH</u> - <u>F</u>	- <u>3</u> -	<u>40</u> –	<u>N</u> –	<u>v</u> – 1	<u>B – A</u>	<u>3 – F</u>	– <u>z</u>	– <u>ZA</u>
Filter Series -									
LVH =	= Low Viscosity Housing								
F =	= Particulate Filter								
Housing Size									
	= 1 Filter Element								
	 3 Filter Elements 4 Filter Elements 								
	= 5 Filter Elements								
	= 8 Filter Elements								
Filter Flemen	nt Length								
40 =	= 40"								
Housing Mate	terial ————								
	= Carbon Steel								
E =	= Stainless Steel								
Mounting Orio	rientation —								
	= Vertical								
	= Horizontal								
	nge								
B =	= 150 psi (10 bar)								
X =	 other (available upon request) 								
	onnection								
	= 2" ANSI 150# SORF								
	= 3" ANSI 150# SORF								
	= 4" ANSI 150# SORF								
	= 6" ANSI 150# SORF = 8" ANSI 150# SORF								
	= 0 ANSI 150# SORF $= DIN DN 100$								
	= DIN DN 150								
-	= DIN DN 200								
	= DIN DN 300								
	= other (available upon request)								
Sealing Mater	erial ————								
F =	= FKM (FPM, Viton [®])								
Clogging Indi	licator ————								
D43 =	 Differential Pressure Gauge, Visual 								
	 Differential Pressure Gauge, Visual/Electrical 								
Z =	 Without Clogging Indicator 								
Certification									
ZA =	 ASME "U" Stamp Certification 								

Notes: Filter elements must be ordered separately and installed before initial operation on site

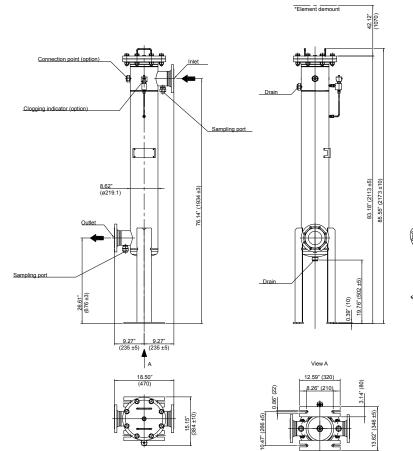
Fuel Oils

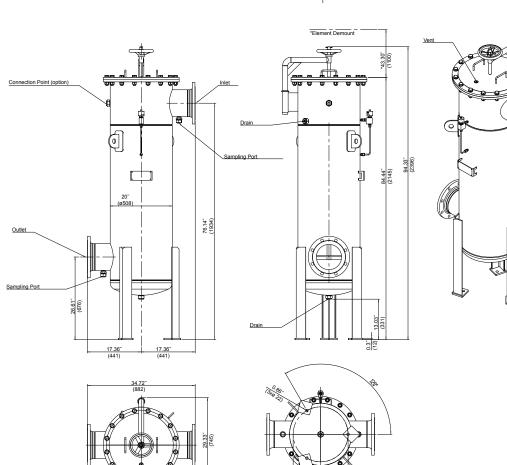
- ULSD15, low sulfur diesel and high sulfur diesel
- **Biodiesel blends** ٠

Model Code

- Synthetic diesel and blends
- No. 2 fuel oil and heating oil

Dimensions LVH-F1





17.67 (ø 449

LVH-F8

Dimensions shown are inches (millimeters) and for general information only. For complete dimensions please contact HYDAC to request a certified print.

Pressure Drop LVHF

The lower curve applies to diesel at 20°C (the upper curve is for mineral oil with viscosity to 30 cSt for comparison).

LVH-F 140 LVH-F 440 0.5 0.5 0.4 0.4 0.3 0.3 0.2 0.2 0.1 0.1 Y-axis: Pressure Drop (bar) 0 0 1000 0 2000 3000 4000 5000 500 1000 1500 0 LVH-F 340 LVH-F 840 0.5 0.5 0.4 0.4 0.3 0.3 0.2 0.2 0.1 0.1 0 0 4000 6000 8000 0 2000 10000 500 1000 1500 0

X-axis: Flow Rate (L/min)

Filter Calculation

Filter Size (Model)	Maximum Flow Rate	Number of Filter Elements
LVH-F-1 40	211 gpm	1 pc.
LVH-F-3 40	317 gpm	3 pcs.
LVH-F-4 40	476 gpm	4 pcs.
LVH-F-5 40	632 gpm	5 pcs.
LVH-F-8 40	951 gpm	8 pcs.

Filter Element Selection

Element	Designation	Part No.
Filter Element 40"	N42ON-DF003-FA40F N42ON-DF005-FA40F N42ON-DF010-FA40F	3965085 3916691 4055947

* Contact Factory for More Details