

# LowViscosity Housing | Filter

## 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



Model no. of filter in photograph is:  
LVHF340NBRFZ

## Features and Benefits

- 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 the AD2000 German rules and regulations for pressure vessels or according to ASME

## Markets

- Industrial
- Bulk Fuel Filtration
- Marine
- Mining
- Agriculture
- Power Generation

## Filter Housing Specifications

**Flow Rating:** 211-951 gpm (800-3600 L/min)

**Inlet/Outlet Connection:** DN50 - 300 (2"-12" DIN)

**Max. Operating Pressure:** 232 psi (16 bar)

**Max. Temperatures:** 122°F (50°C)

**Material Housing:** Stainless Steel or Carbon Steel

**Optional:** Optimicron® Diesel Elements

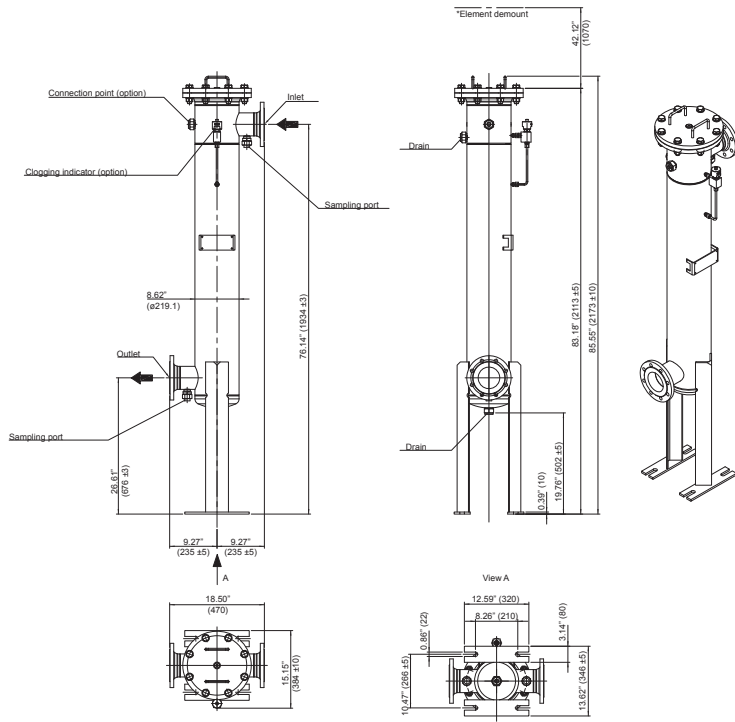
**Schroeder**  
**INDUSTRIES**

Advanced Fluid Conditioning Solutions®

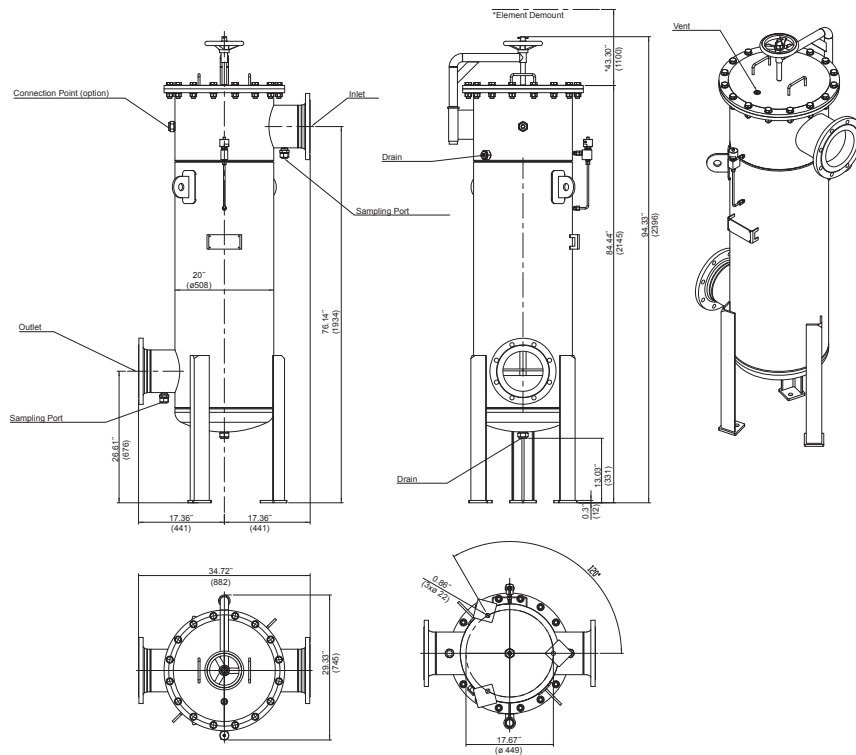
580 West Park Road | Leetsdale, PA 15056  
ph. 724.318.1100 | fax 724.318.1200



## Dimensions LVH-F1



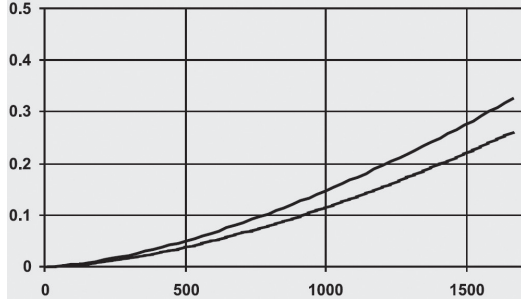
## Dimensions LVH-F8



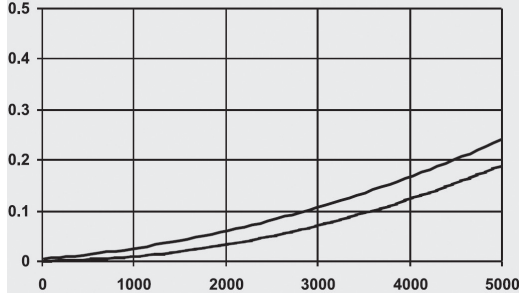
## Housing Pressure Drop Graphs (Housing $\Delta P$ )

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

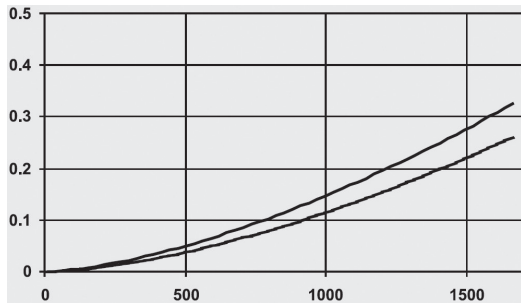
**LVH-F-140**



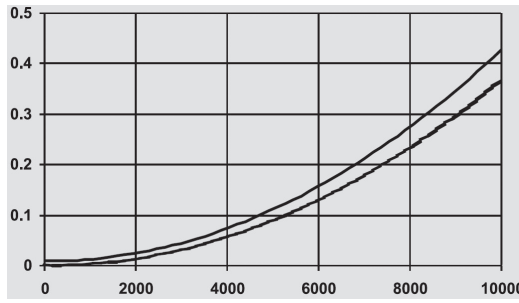
**LVH-F-440**



**LVH-F-330**



**LVH-F-840**



## 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	634 gpm	5 pcs.
LVH-F-8 40	951 gpm	8 pcs.

## Filter Element Selection Coalescing Element Performance Information

Element	Pressure Side Coalescing	
	Designation	Part No.
Filter Element 40"	N42ON-DF003-FA40F	*
	N42ON-DF005-FA40F	3916691
	N42ON-DF010-FA40F	*

\* Contact Factory for More Details

## Filter Model Number Selection

### How to Build a Valid Model Number for a Schroeder LVH-F Supplied with Element:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9	BOX 10	BOX 11
LVH										

Example: NOTE:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9	BOX 10	BOX 11
LVH	F	3	40	E	V	C	V	F	D12	ZA

= LVHF340EVCVFD12ZA

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5
<b>Filter Series</b>	<b>Functions</b>	<b>Filter Size</b>	<b>Filter Element Length</b>	<b>Housing Material</b>
LVH	F = Filter	1 = 1 filter element 3 = 3 filter elements 4 = 4 filter elements 5 = 5 filter elements 8 = 8 filter elements	40 = 40"	E = Stainless Steel N = Carbon Steel

BOX 6	BOX 7	BOX 8	BOX 9
<b>Mounting</b>	<b>Pressure Range</b>	<b>Hydraulic Connection</b>	<b>Sealing</b>
V = Vertical H = Horizontal	B = 10 bar C = 16 bar	L = DIN DN 50 R = DIN DN 100 V = DIN DN 150 W = DIN DN 200 Y = DIN DN 300	F = Viton®

BOX 10	BOX 11
<b>Clogging Indicator</b>	<b>Available Certification</b>
C12 = Differential pressure indicator, electrical D17 = Differential pressure indicator, visual/electrical (230V) D18 = Differential pressure indicator, visual/electrical (240V) D32 = Differential pressure indicator, visual/electrical (PVL2GW.01-V-113) D33 = Differential pressure indicator, visual/electrical (PVL2GW.01-111-16) Z = Without clogging indicator	ZA = ASME Certification

#### NOTES:

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

## Fluid Compatibility

### Fuel Oils

- ULSD15, low sulfur diesel and high sulfur diesel
- Biodiesel blends
- Synthetic diesel and blends
- No. 2 fuel oil and heating oil