Low Viscosity Housing | Coalescer

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

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 Coalescer LVH-C is mainly used for dewatering of diesel. It is especially suitable for applications with large amounts of water 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
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Filter Housing Specifications
- Flow Rating: 211-476 gpm (800-1800 L/min)
- Inlet/Outlet Connection: DN50 - 300 (2"-12" DIN)
- Max. Operating Pressure: 150 psi (10 bar)
- Max. Temperatures: 122°F (50°C)
- Material Housing: Stainless Steel or Carbon Steel
- Optional: Optimicron® Diesel Elements
### Dimensions LVH-C-D-9-40

![Diagram of LVH-C-D-9-40](image)

### Filter Calculation

<table>
<thead>
<tr>
<th>Filter Size (Model)</th>
<th>Maximum Flow Rate</th>
<th>Number of Coalescing Elements</th>
<th>Number of Separator Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>LVH-CD-4 40</td>
<td>211 gpm</td>
<td>4 pcs.</td>
<td>3 pcs.</td>
</tr>
<tr>
<td>LVH-CD-6 40</td>
<td>317 gpm</td>
<td>6 pcs.</td>
<td>4 pcs.</td>
</tr>
<tr>
<td>LVH-CD-9 40</td>
<td>476 gpm</td>
<td>9 pcs.</td>
<td>6 pcs.</td>
</tr>
</tbody>
</table>

### Filter Element Selection Coalescing Element Performance Information

<table>
<thead>
<tr>
<th>Element</th>
<th>Designation</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Separation Element 30°</td>
<td>N32ON-DSZ-SA80F</td>
<td>3910259</td>
</tr>
<tr>
<td>Coalescing Element 40°</td>
<td>N42ON-DCZ-CA60F</td>
<td>3910257</td>
</tr>
</tbody>
</table>
### Filter Model Number Selection

**How to Build a Valid Model Number for a Schroeder LVH-C Supplied with Element:**

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
<th>BOX 7</th>
<th>BOX 8</th>
<th>BOX 9</th>
<th>BOX 10</th>
<th>BOX 11</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LVH</strong></td>
<td><strong>CD</strong></td>
<td><strong>4</strong></td>
<td><strong>40</strong></td>
<td><strong>E</strong></td>
<td><strong>V</strong></td>
<td><strong>B</strong></td>
<td><strong>V</strong></td>
<td><strong>F</strong></td>
<td><strong>D32</strong></td>
<td><strong>ZA</strong></td>
</tr>
</tbody>
</table>

**Example:**

NOTE: Replace the placeholder values with the appropriate ones based on the desired configuration.

**Filter Series:**

- **LVH**

**Functions:**

- **CD = Coalescing**

**Filter Size & Number of Elements per Housing:**

- **4** = 4 coalescing element & 3 particulate element
- **6** = 6 coalescing element & 4 particulate element
- **9** = 9 coalescing element & 4 particulate element

**Filter Element Length:**

- **40 = 40”**

**Housing Material:**

- **E = Stainless Steel**
- **N = Carbon Steel**

**Mounting:**

- **V = Vertical**

**Pressure Range:**

- **B = 10 bar**

**Hydraulic Connection:**

- **L = DIN DN 50 (2”)**
- **R = DIN DN 100 (4”)**
- **V = DIN DN 150 (6”)**
- **W = DIN DN 200 (8”)**
- **Y = DIN DN 300 (12”)**

**Sealing:**

- **F = Viton®**

**Clogging Indicator:**

- **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**

**Available Certification:**

- **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