In-Line Water Absorbing Diesel Fuel Bag Filter

Application Introduction:

The BDA provides a high capacity water absorbing solution for diesel fuel in a familiar process filtration housing configuration. The BDA combines the high volume particulate filtration performance of a bag housing element with a high capacity water absorbent media to provide an economic solution for particulate and water removal in diesel fuel systems. The BDA can be used for dispensing or kidney-loop installations. The filter is designed for use with standard diesel fuel as well as bio-based blends.

Features and Benefits

- One housing and bag filter provides both high capacity particulate and water removal performance
- A particulate filtration rating of 10 µm is standard
- Housings are high quality stainless steel, CE Marked vessels
- A positive bag seating mechanism helps to minimize the risk of seal bypass
- Fixed legs with height and 360° rotational adjustment allow for various mounting options

Markets

- INDUSTRIAL
- MOBILE VEHICLES
- MARINE
- MINING TECHNOLOGY
- AGRICULTURE
- POWER GENERATION
- COMMON RAIL INJECTOR SYSTEMS
- FLEET
- RAILROAD
- BULK FUEL FILTRATION

Model no. of filter in photograph is: BDA-H-2-V-P32

35 or 70 gpm
132 or 265 L/min
145 psi
10 bar

SCHROEDER INDUSTRIES | FUEL FILTRATION 35
### Filter Housing Specifications

| Metric Dimensions | Dimensions shown are inches [millimeters] for general information and overall envelope size only. For complete dimensions please contact Schroeder Industries to request a certified print. |

#### In-Line Water Absorbing Diesel Fuel Filter

**Max Flow Rating:**
- BDAH1: 35 gpm (132 L/min)
- BDAH2: 70 gpm (265 L/min)

**Inlet/Outlet Connection:**
- 2” NPTF
- 2” SAE 4-Bolt Flange Code 61
- 2” BSPF

**Max. Operating Pressure:** 145 psi (10.3 bar)

**Recommended Element Change Differential Pressure:** 22 psi (1.5 bar)

**Max. Element Differential Pressure:** 55 psi (4 bar)

**Temp. Range:** -20°F to 176°F (-29°C to 80°C)

**Available Gauge Porting:** (2) ¼” BSP

**Materials of Construction:** 304 Stainless Steel

**Weight:**
- BDAH1: 66 lbs. (30 kg)
- BDAH2: 84 lbs. (38 kg)

**Element Change Clearance:** Min. required 14” (356 mm)

*Note: Elements sold separately*
In-Line Water Absorbing Diesel Fuel Filter

<table>
<thead>
<tr>
<th>Water Absorbing Bag Element</th>
<th>Bag Housing Size</th>
<th>Micron Rating</th>
<th>Bag Element Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA210P1PW</td>
<td>Size 1</td>
<td>10 µm</td>
<td>7” (178 mm) O.D. x 17” (432 mm) long</td>
</tr>
<tr>
<td>FA210P2PW</td>
<td>Size 2</td>
<td>10 µm</td>
<td>7” (178 mm) O.D. x 32” (813 mm) long</td>
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</tbody>
</table>

Pressure Drop Information: $\Delta P_{\text{housing}} < 0.5$ psi

Notes

BDA
## In-Line Water Absorbing Diesel Fuel Filter

### How to Build a Valid Model Number for a Schroeder BDFA housing without 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>
</tr>
</thead>
<tbody>
<tr>
<td>BDA</td>
<td>H</td>
<td>1</td>
<td>V</td>
<td>P32</td>
<td>DPG</td>
</tr>
</tbody>
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Example: NOTE: One option per box

BOX 1

**Filter Series**

<table>
<thead>
<tr>
<th>BOX 2</th>
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<th>BOX 5</th>
<th>BOX 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Configuration</td>
<td>Bag Element Size</td>
<td>Housing Seal Material</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H = Housing</td>
<td>1 = Size 1</td>
<td>V = Viton®</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 = Size 2</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

BOX 5

**Porting**

| P32 = 2" NPTF |
| F32 = 2" SAE 4-Bolt Flange, Code 61 |
| B32 = 2" BSPF |

BOX 6

**Filter Indicator**

| Omit = None |
| DPG = Differential Pressure Gauge |

### Fuel Oils

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

### Element Part Number Selection

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### Notes:

- Bag Filters sold separately and are listed below