Fuel Dispensing Filtration
FBO Fuel Filter/Water Separator
FBO-14-DPL

Market Application Publication

Application
Fuel Dispensing Pumps for the State of North Carolina Department of Transportation.

Customer Challenge
The customer’s fuel dispensing pumps contain bio-diesel and E85 fuels, installed with water absorbing spin-on elements, filtering between 800 to 900 gallons of fuel, before plugging up and shutting down fuel flow. This happens during vehicle fueling, causing a great deal of time to be lost while waiting for a filter changeout.

Contact Information
Parker Hannifin Corporation
Racor Division
P.O. Box 3208
3400 Finch Road
Modesto, CA 95353

phone 800 344 3286
209 521 7860
fax 209 529 3278
racor@parker.com
www.parker.com/racor

Why Racor was Chosen as the Solution
The FBO-14-DPL is the best solution because of size, ease of service, ability to drain the water and the differential pressure indicator telling them when to change the filter element. The customer is now getting 13,000 to 15,000 gallons before change out on the elements. Another advantage is the wide variety of element options. Currently the filtration used is a 5 micron element on their E85 pumps and 10 micron on the bio-diesel pumps.
The Solution
FBO fuel dispensing FF/WS, part number FBO-14-DPL.
- Heavy-duty assembly
- Water separator element
- Delta P gauge
- Sight glass
- Drain valve

How the Solution Works
FBO assemblies are specifically designed to meet the filtration requirements for fuel dispensing pumps. The assembly features a “locking ring collar” that allows maintenance personnel to hand loosen the four collar bolts, rotate, and lower the bowl assembly for filter changeouts. No wrenches or other special tools are required, allowing one person to easily change the filter cartridge. Replacement filter options include; water separator (the most popular), silicone treated are used for upstream applications and water absorber absorbs water and filter contaminants.

Filter Cartridge Chart

<table>
<thead>
<tr>
<th>FBO</th>
<th>Micron Rating</th>
<th>Water Separator</th>
<th>Silicone Treated Filter</th>
<th>Water Absorber</th>
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<tbody>
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<td>FBO-14</td>
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Technical Information

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<thead>
<tr>
<th>Specifications</th>
<th>Maximum Flow Rates</th>
<th>Clean</th>
<th>Change</th>
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<td></td>
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<td>Delta P</td>
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<tr>
<td>FBO-14</td>
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<td></td>
</tr>
<tr>
<td>Silicone Treated Filter</td>
<td>30 GPM (113 LPM)</td>
<td>2.5 PSID</td>
<td>15 PSID</td>
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<tr>
<td>Water Separator</td>
<td>25 GPM (95 LPM)</td>
<td>2.5 PSID</td>
<td>15 PSID</td>
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