Hastings’ filters offer protection
Fuel filters usually come in pairs — primary and secondary; however, some systems operate with only a single filter and others depend on a fuel filter and an optional fuel/water separator.

Primary fuel filters contain media which is more open and less restrictive. The primary filter is designed to capture larger particles and to protect the transfer pump from abrasives.

The secondary fuel filter is designed to protect the injection pump from very fine abrasives that would otherwise damage the sensitive parts. The secondary filter is built with a tighter media to capture smaller particulates.

Some OEMs use fuel/water separators relying on a stripping mechanism. Several difficulties can occur with these separators.

- Plastic bowl separators are subject to road hazards and chemical attacks, resulting in cracks and leaks.
- Replacement bowls are not easily available, making the replacement process difficult by increasing costs and downtime.
- Configuration of the plastic bowl creates an additional path for leaks.

Hastings has improved fuel/water separators with an advanced “no-bowl” design featuring a patented all-metal, self-venting drain. This design will not crack or leak like the bowl-type models and eliminates the mess and difficulty of changing plastic bowls.

Tank after tank, Hastings filters help your fuel flow freely and protect your engine from the harmful effects of water and contaminants in fuel. Hastings filters will pay for themselves many times over in increased engine performance and longer engine life.

Hastings’ uncompromising quality
Since 1944, Hastings Premium Filters has been serving the automotive and commercial markets with quality filter products. In 1995, Hastings became a part of the CLARCOR group, which has enabled the company to share innovative ideas and technologies with its sister companies and to grow as a provider of filtration products.

Hastings delivers superior coverage for engine filtration needs by producing air, lube, fuel, coolant, hydraulic and transmission filters, as well as crankcase breathers. With over 4,500 part numbers, Hastings can meet your filter needs.

The practice of Total Quality Management and Quality Control Systems is evident throughout the entire Hastings organization. Hastings’ ISO 9001:2008 certification is another indicator that Hastings Premium Filters is serious about quality.
Protecting your fuel system

Even with the development of cleaner-burning fuels, contaminants are still a major concern when it comes to your fuel system.

Hastings’ fuel filters for gasoline and diesel powered engines protect sensitive fuel system components, such as injection pumps and unit injectors, from the following fuel system contaminants:

- **Water** — destroys the lubricative properties of fuel, damaging fuel system components and resulting in fuel flow stoppage at cold temperatures.
- **Fungus and Bacteria** — quickly plug fuel filters, feed on fuel and spread rapidly in the presence of moisture.
- **Precipitates** (non-combustible materials that will settle out of the fuel) — cause few problems unless the fuel is agitated.
- **Particulates** (black, tar-like contaminants) — plug fuel filters quickly.
- **Wax** — adds energy to diesel fuel; however, during cold weather it thickens and gels – slowing or stopping fuel flow.

Hastings Premium Filters offers more than 500 different fuel filters, fuel managers, coalescers and fuel/water separators to fit most applications.

Maximum performance

Hastings Premium Filters designs and manufactures high quality fuel filters to perform according to the specifications established by engine and equipment manufacturers. To insure the highest quality product, we test our filters according to SAE J905 test procedures – the industry standard for fuel filtration.

SAE J905 testing shows that Hastings fuel filters meet or exceed minimum standards for efficiency and capacity set by the manufacturer. The following product comparisons illustrate Hastings’ superior performance.

### Contaminant Removal Efficiency

<table>
<thead>
<tr>
<th>Filter</th>
<th>Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS1212</td>
<td>86.6%</td>
</tr>
<tr>
<td>FS1063</td>
<td>86.9%</td>
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</table>

### Contaminant Holding Capacity

<table>
<thead>
<tr>
<th>Filter</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS1212</td>
<td>25.1g</td>
</tr>
<tr>
<td>FS1063</td>
<td>25.8g</td>
</tr>
</tbody>
</table>

SAE J905 Test: Flow Rate 90 gph, ISO Fine Test Dust, Termination at 4 psid