Protection by Filtration

Efficient fuel filtration should achieve an ISO Code of 12/9/6 or better. Machine users and OEMs demand application-specific filter systems and elements with the highest possible contamination retention capacities, coupled with compact dimensions, compatibility of the elements with biodiesel fuels, and environmentally-friendly disposal.

Protection by Dewatering

Consumers with large tanks which are only seldom used and in which the diesel is stored for a long time (emergency diesel generators) are particularly prone to heavy deposits of particle contamination on the tank floor as well as elevated water content in the tank (due to condensation).

Furthermore, free water remaining in the tank over a long period of time gives rise to diesel bug (formation of micro-organisms such as types of bacteria, fungi, etc.) which can also clog the filter and diesel fuel system(s). For these reasons, water must be removed efficiently in a single-pass from the fuel to ensure that the water content is below 200 ppm water content.
The New World of Advanced Diesel Filtration

Tier IV emissions requirements and industry guidelines, such as the ones outlined by the Worldwide Fuel Charter, are raising the bar for fuel cleanliness and water removal. For instance, High Pressure Common Rail systems, developed to maximize efficiency, require meticulous clean fuel to be compliant with the precision tolerances of a modern engine design. Unfortunately, the luxury of enhancing additives and biodiesel blends commonly found in today’s Ultra Low Sulfur Diesel (ULSD15) sharply reduce the overall performance of previously acceptable diesel fuel/water separators by up to 40%. In short, fuel/water separators from the past that were 99% efficient in removing water are now roughly 68% efficient.

Yesterday’s standard diesel filter systems and fuel/water separators are no longer sufficient as a stand-alone solution. The fuel must be filtered and dewatered at every stage of the transport chain - from production in the refinery to the end user.

For this reason, Schroeder Industries has continuously improved our patented, ultra-high efficiency coalescing media. When coupled with our high efficiency particulate media, we can ensure that the fuel being used by diesel-powered equipment is both clean and dry, meeting or exceeding existing published engine manufacturers’ specifications.

Schroeder Industries’ product range includes fuel filters, filtration systems, and condition monitoring equipment necessary to do it all. For every step of the process - from production to consumption - we provide specific products for optimum diesel fuel conditioning and monitoring:

**Diesel: All Around Protection**

For more information on finding Schroeder from product to consumption - reference our L-4533 DIESEL: ALL AROUND PROTECTION brochure.

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**We Have Products for:**

**Coalescing & Particulate Solutions**

- 100 gpm (381 L/min) particulate filter (GHPF),
- 25 gpm (95 L/min) coalescing (fuel/water separation) filter (GHCF),
- 14 or 25 gpm (53 or 95 L/min) polishing system (BDPF)

- Incorporates our patented fuel filtration to improve performance and capacity
- Full Schroeder-synthetic particulate and coalescing filter media, vastly increases element service life (less element change-out)

**BDS Series & LVH Series | Bulk Diesel Filtration**

- 70 - 280 gpm (265 - 1060 L/min) bulk diesel fuel skid (BDS Series),
- 211 - 476 gpm (799 - 1802 L/min) low viscosity coalescing vessel (LVH-L),
- 951 gpm (3600 L/min) low viscosity particulate vessel (LVH-P)

- In-line, high performance filtration solutions
- Innovative fuel filtration media technology for high efficiency, single-pass removal of water and particulate in Ultra Low Sulfur Diesel (ULSD15) and biodiesel blends

**HDP Series | On-Board Diesel Coalescing Filters**

- Designed to protect diesel powered (mobile) equipment from failures, breakdowns, and frequent/unplanned service intervals
- Exceeds Tier IV standards for particulate/water removal in Ultra Low Sulfur Diesel (ULSD15) and biodiesel fuels

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We Have Products for:

Coalescing filtration is a highly effective method to remove water from diesel fuel. Water may be introduced into the fuel supply through leaks and ambient humidity. Water in fuel storage tanks promotes microbial growth, creating an acidic corrosive contamination in fuel systems once established. The cause of this, Schroeder offers a complete line of mobile and mobile bulk diesel particulate and coalescing filters for eliminating microbial growth at the source:

- **GHFP, GHCF, & BDFP | Coalescing & Particulate Solutions**
  - Coalescing and particulate filters for fuel dispensing, transferring, and polishing applications
  - 100 gpm (381 L/min) particulate filter (GHFP), 25 gpm (95 L/min) coalescing (fuel/water separation) filter (GHCF), 14 or 25 gpm (53 or 95 L/min) polishing system (BDFP)
  - Incorporates our patented fuel filtration to improve performance and capacity
  - Full Schroeder-synthetic particulate and coalescing filtration media, vastly increases element service life (less element change-out)

- **BDS Series & LVH Series | Bulk Diesel Filtration**
  - 70 - 280 gpm (265 - 1064 L/min) bulk diesel fuel skid (BDS Series), 211 - 476 gpm (799 - 1802 L/min) low viscosity coalescing vessel (LVH-C), 211 - 951 gpm (799 - 3600 L/min) low viscosity particulate vessel (LVH-F)
  - In-line, high performance filtration solutions
  - Innovative fuel filtration media technology for high efficiency, single-pass removal of water and particulate in Ultra Low Sulfur Diesel (ULSD) and biodiesel blends

HDP Series | On-Board Diesel Coalescing Filters

Industry-leading engine fuel pre-filtration in compact, cost-effective packaged solutions

- Flow rate options available up to 476 gph (600 lph)
- Designed to protect diesel powered (mobile) equipment from failures, breakdowns, and frequent/unplanned service intervals
- Small encapsulation size offers a great flexibility in mounting on your diesel powered (mobile) equipment
- Exceeds Tier IV standards for particulate/water removal in Ultra Low Sulfur Diesel (ULSD) and biodiesel fuels
- Innovative electrical primer pump and automatic water drain options available to promote seamless integration on your equipment and continuous run-time

**Continued on the next page.**
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We Have Products for:

Now that you understand the new world of advanced diesel filtration, you’ll also want to utilize the tools to help monitor the condition of your clean fuel. Schroeder offers a complete line of condition monitoring and diagnostic tools to ensure the effectiveness of your filtration, as well as to document the cleanliness and dryness of your diesel.

The CS1000 | Contamination Sensor and the FCU1315 | FluidControl Unit are valuable resources for monitoring these values. From the measurements collected, it is possible to check and evaluate the entire transit path of the diesel in respect to required cleanliness. It’s always better to be preventative then reactive. By monitoring the condition at every stage, you can better schedule the maintenance at your leisure versus when it is absolutely critical to production.

Protection by Filtration

Filtration Solutions & Condition Monitoring
- Mobile Equipment Fuel Filtration
- Particulate & Coalescing Solutions
- CNG Filtration
- ASME Filtration Vessels
- Turn-Key & Custom Solutions

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