

TECH TIPS

DAHL FILTERS

Fuel/Water Separators To Remove Water, Contaminants.

Water and solid contaminants displace the diesel fuel's lubricative coating on high-precision injection components; however, many existing fuel filters aren't designed to remove significant amounts of water. Baldwin offers its DAHL diesel fuel filter/water separators for situations that involve substantial water contamination.

DAHL's dual-chamber 3-stage diesel fuel filter/water separators provide efficient suction side water separation and contaminant filtration. The key is the patented depressurizer cone, which spreads the flow of the fuel and allows for greater separation of water and dirt from the fuel. A DAHL unit removes virtually 100% of the water and most of the contaminants from the diesel fuel.

The DAHL system eliminates water from the fuel before it reaches the fuel pump and injectors. This prevents the major cause of diesel fuel injection system failure. Most of the liquid and solid contaminants are separated by the patented depressurizer cone and contained in the bowl before reaching the filter element. The transparent bowl (up to 24 ounce (710 ml) water capacity) makes constant draining unnecessary. The draincock is easy to use. An aluminum bowl is also available.

Another factor resulting in less frequent changes is the HydroShield™ media used in the filter element. Under normal conditions, the element can last up to 40,000 miles (64,000 km). DAHL service filter elements are available with various HydroShield media to suit your specific application needs.

The DAHL system includes a reverse flow valve to hold the prime in the fuel system by preventing flow back to the tank during shutdown. A removable primer plug at the top of the units assists where complete priming is required.

The DAHL system helps eliminate air entrapment because the inlet and outlet ports are at the top of the unit. The fuel changes directions only twice (see flow diagram), and so offers less mechanical resistance. Less resistance means longer pump and element life.

A DAHL unit can be installed at any location before the fuel pump and can replace all other primary filters and water separators as it both filters and separates.

The DAHL Marine units have passed U.L. testing, including fire endurance, vibration fatigue, impact and thermal shock. These filters also meet the U.S. Coast Guard requirements for marine applications.

