

BIOFUELS

Biofuels are a renewable energy source that is produced from biomass and is typically blended with refined fuels to provide energy for transportation. The two most common biofuels are biodiesel and ethanol. Biodiesel is produced by combining alcohol with vegetable oil, animal fat, or recycled cooking grease. Ethanol is made from various plant materials through fermenting their starches, sugars, and cellulose components to produce alcohol.



SUGGESTED PUMPS:



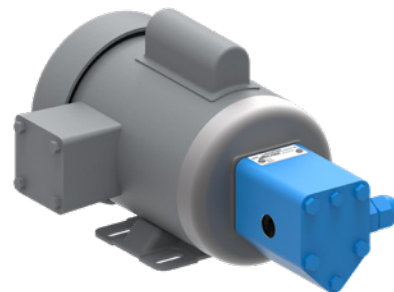
4124A SERIES™

- Cast Iron
- Seal flexibility
- Capacities to 500 GPM



4127C SERIES™

- 316 Stainless Steel
- Many sealing options
- Capacities to 320 GPM



SG SERIES™

- Ductile Iron
- Pressures >200 PSI
- Capacities to 190 GPM

BIOFUEL APPLICATIONS:

- | | |
|------------------------------------|-----------------|
| ■ Biodiesel | ■ Ethanol |
| ■ Diesel Fuel | ■ Gasoline |
| ■ Fatty Acid Methyl Esters (FAMES) | ■ Additives |
| ■ Waste Cooking Oil or Animal Fats | ■ Mash "Slurry" |
| ■ Methanol | ■ Syrup |
| ■ Glycerin | |
| ■ Sodium Hydroxide (Caustic Soda) | |

VIKING IN THE PROCESS:

Viking pumps are used extensively in the production of biofuels. Cast iron internal gear pumps (4124A Series™) can handle viscosities from ethanol thin to thick slurry applications and are used where consistent flow rate is needed even with varying system back pressure such as when pumping through a filter or strainer. Stainless steel internal gear pumps (4127C Series™) are used for corrosive applications such as the transfer of the fatty acids used in the creation of biodiesel. External gear pumps (SG Series™) are used for applications with lower flow rates or higher pressures such as blending in fuel oil additives. Whether unloading waste cooking oil, moving product through the esterification & transesterification process, or transferring glycerin byproduct in the production of biodiesel or pumping mash "slurry" during the processing of ethanol – Viking Pump's robust & easy to maintain pumps will improve your operational efficiency.

INTERESTED IN A PRODUCT? CONTACT YOUR STOCKING DISTRIBUTOR TODAY!

VIKING PUMP®



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