



CASE STUDY

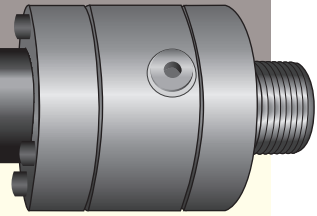
DEF-Trac® for Bio-Diesel Truck Fueling System

- Saves Time
- Saves Money
- Increases Installation Options

Product:

DEF-Trac® piping for Bio-Diesel Truck Fueling System

Location: Lincoln, DE



DEF-Trac® piping Connection at the aboveground storage tank outside.

The Environmental Protection Agency (EPA) is constantly changing its regulations; as a result, more bulk biodiesel fuel facilities are being built. Biodiesels are derived from renewable sources such as vegetable oils, animal fats, and waste oils; the combination produces fewer emissions of carbon monoxide, particulates, and other pollutants compared to diesel. Most consumers of biodiesel are farmers or those in the agricultural sector. The older farm equipment is not equipped with Diesel Exhaust Fluid (DEF) holding tanks. DEF assists in reducing hydrocarbons, which are produced by diesel fuel.

JBM Petroleum Service LLC., located at 8913 Clendaniel Pond Rd. Lincoln, Delaware 19960 was awarded the contract to move a heated biodiesel dispenser from an outdoor skid-mounted aboveground heated biodiesel storage tank/dispenser system, to the inside of a drive-through truck fueling garage. The biodiesel project is located at an Agricultural Trucking Fleet in the Mid-Atlantic Region.

Biodiesel is susceptible to gelling in colder climates. A biodiesel piping system with integrated heat trace is needed to keep the biodiesel fluid enough to transfer from point A to point B. JBM Petroleum chose DEF-Trac® piping (Heat Traced and Insulated piping system), in order to protect the biodiesel fuel from gelling up in the cold weather.

DEF-Trac® piping system was originally designed for DEF systems. Due to the 316L Stainless Steel primary pipe, DEF-Trac® piping can be used for all types of fuels that require heat to maintain fluidity. If state and local code allow a single-wall heat-traced and an insulated aboveground piping system to transfer fuel.

A huge benefit of using DEF-Trac® piping is the ability to purchase the DEF-Trac® piping in continuous lengths of 200 ft. Having the ability to run a continuous section of fuel piping from point A to point B results in a 90% reduction in potential leak points and fewer installation hours. Compared to running rigid steel piping, which has several connections and potential leak paths. DEF-Trac® piping is a 316 Stainless Steel flexible, manufactured heat traced and insulated piping system versus a rigid piping system that must be heat traced and insulated after installation.

The job went as planned, the technicians were able to pull the 1 -1/2" DEF-Trac® piping run from the outdoor AST tank, through the wall. A 90-degree elbow fitting was used to keep DEF-Trac® piping close to the wall and to turn it up the wall. DEF-Trac® piping is supported up the wall using Unistrut cushion clamps, then sweeping DEF-Trac® piping 90° to the roof trusses. Using 4" PVC Electrical Conduit for the horizontal support through two more 90° turns, then penetrating a second wall, and sweeping down to the backside of the heated biodiesel dispenser. Creating a 100-ft-long heat-traced and insulated piping run from the outdoor AST tank to the indoor dispenser with only 1 intermediate joint, a rigid piping system would have had at least 10 intermediate joints for the same configuration.

(continued on back)



DEF-Trac® piping wall penetration and first sweeping turn at the roof.



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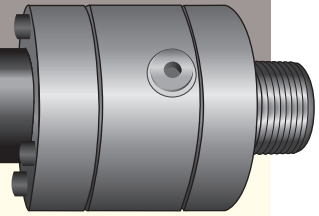
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DEF-Trac[®] for Bio-Diesel Truck Fueling System



(continued from front)

Features and Benefits of DEF-Trac[®] Piping

DEF-Trac[®] piping is manufactured from corrugated 316L stainless steel and is supplied in long coils to streamline the installation of the distribution piping from the storage tank to the dispensing pumps. Simplified Rubber Boots - The implementation of rubber boots eliminates time-consuming heat shrink sleeves, simplifying installation and reducing installation time. Combined with simple mechanical fittings, the entire system can be installed, without any intermediate joints, by one person using standard hand tools. DEF-Trac[®] piping is designed with a highly insulated jacket and is supplied with integrated heat tracing. Omega Flex, Inc. has a well-earned reputation as a leader in flexible piping technology and has developed several unique corrugated tubing products specifically for the distribution of liquid and gaseous fuels, including DEF-Trac[®] piping.

- 316L flexible stainless-steel tubing.
- Stainless steel fittings are field attachable.
- Self-flaring, metal-to-metal sealing.
- Fluid components meet ISO 22241-3 standard.
- Will maintain minimum media temperature when ambient temperature is down to -20°F.
- Operating voltage: 120 VAC only, one Thermon low-temp self-regulating heat trace cable P/N# BSX with a maximum circuit length is 200 feet.
- 200-foot circuit will draw approx. 8.0A nominal operating current.

Omega Flex, Inc. offers a team of in-house engineers to assist with piping layouts and answering technical questions about piping systems. Omega Flex, Inc. offers no-cost training and certification of new installers.

DEF-Trac[®] piping, all sales are subject to our limited warranty, which is available at <https://omegaflexcorp.com/legal-information> and



DEF-Trac[®] piping second sweeping turn at the roof.



DEF-Trac[®] piping third sweeping turn and second wall penetration.



DEF-Trac[®] piping second wall penetration and sweeping turn down to the dispenser.

