



CASE STUDY

DoubleTrac® and DEF-Trac® Piping for a Cold Storage Distribution Facility

- Saves Time
- Saves Money
- Increases Installation Options

Product:

DoubleTrac® and DEF-Trac® Piping installation for an above-ground commercial truck fueling system

Location: Cold Storage Distribution Facility, Glen Allen, VA

The hustle and bustle of daily life leaves many individuals and families looking for an expedient way to prepare quality food. Consumers all over the world like the convenience of prepared frozen food. Everybody can find something in the frozen food aisles. The frozen and refrigerated food market in the United States and around the world is predicted to grow at a rate of 6% compounded annually between 2022 and 2028. The logistics to serve these markets require more frozen/refrigerated food distribution facilities to be constructed. These distribution facilities have commercial truck fueling systems serving fleets of trucks and refrigerated trailers that come and go daily.

JF Petroleum Group was awarded the contract to install an aboveground commercial truck fueling system at a newly constructed Cold Storage Distribution Facility in Glen Allen, Virginia. The site has large Above-ground Storage Tanks (AST's) for Diesel, Off Road Diesel, and Diesel Exhaust Fluid (DEF).

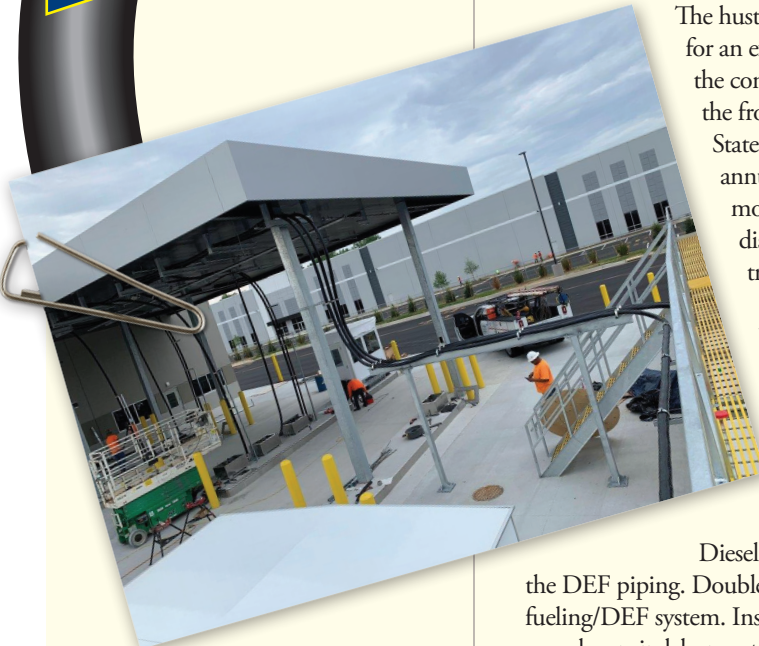
Based on the features and benefits of DoubleTrac® and DEF-Trac® piping, JF Petroleum chose to use DoubleTrac fuel piping for the Diesel and Off-Road Diesel, and DEF-Trac insulated and heat-traced piping for the DEF piping. DoubleTrac and DEF-Trac are the best choices for building an aboveground fueling/DEF system. Installing DoubleTrac and DEF-Trac versus stainless steel welded piping saves hours in labor costs. Using DoubleTrac for fuels has many advantages. The finished system is completely double-contained, and DoubleTrac secondary containment is monitored in the Under Dispenser Containment Sumps (UDC's).

DoubleTrac and DEF-Trac were installed by securing the piping under the canopy decking on Unistrut, with DoubleTrac and DEF-Trac dropping down to above-ground dispenser sumps. Each truck lane required a Diesel Master Dispenser, a Diesel Satellite Dispenser, an Off-Road Diesel Dispenser, and a DEF Dispenser. In the end, JF Petroleum had a successful installation, and everything turned out fine. Robby Weaver and his crew stated they "liked using DoubleTrac and DEF-Trac and will most definitely use them again."

Features and Benefits of DoubleTrac®

The DoubleTrac double containment fuel piping system is optimized for installations in existing building structures. The secondary jacket is a smooth Nylon 12, which allows DoubleTrac to slide easily over and around structures during installation. The outside diameter of the DoubleTrac is equivalent to steel piping (NPS), so off-the-shelf pipe hangers and mounts can be used. DoubleTrac is available in 1", 1 ½", and 2" sizes to accommodate most fuel system requirements. It is sold in off-the-shelf reel quantities for quick delivery and can be ordered in custom lengths to accommodate long, continuous runs.

(continued on back)



2" DoubleTrac® and 1" DEF-Trac® trunklines running from the Above-ground Storage tanks Cold Storage Distribution Facility, Glen Allen, VA.



DoubleTrac® with self-contained TEEs for drops and DEF-Trac mounted on the structure below the canopy deck.



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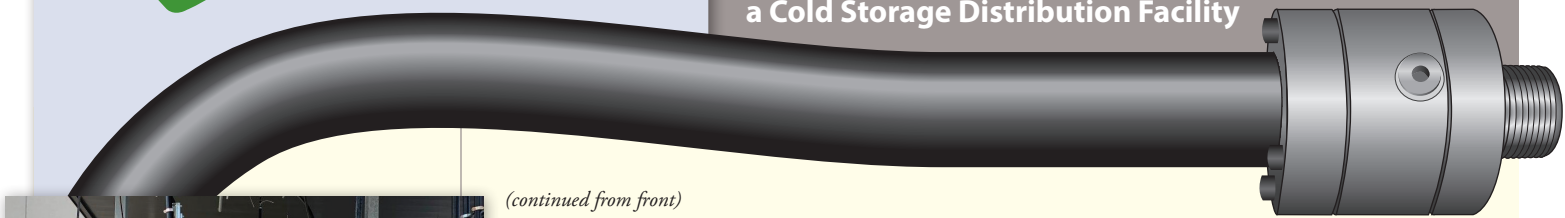
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(continued from front)

Type 316 stainless steel Tee and 90-degree fittings are available for multi-branch systems or installations requiring bending below DoubleTrac minimum bend radius. All DoubleTrac fittings carry interstitial communication internally and are not required to be installed within containment sumps on aboveground applications.

DoubleTrac innovative double wall design includes a primary interior layer of zero permeation, highly corrosion-resistant corrugated 316 stainless steel with an outer EFEP barrier layer bonded to a Nylon 12 protective layer. DoubleTrac can be considered a “green product” because the stainless-steel piping has zero permeation, and the EFEP/Nylon 12 outer jacket has nearly zero permeation (.000001%). DoubleTrac is a true future fuel piping system and is the best choice for fuel oil, Sulphur diesel blends, biodiesel, gasoline, aviation and jet fuels.

DoubleTrac Piping and Fittings are UL 971A (for below-ground flammable fuels) and UL 1369 listed (for above-ground flammable fuels).

DoubleTrac passed 2-hour Fire testing Per UL 1369 listing.

DoubleTrac passed General-use Fuels, B100, DEF, and Ammonia Hydroxide per UL 1369 listing.

DoubleTrac has a patented mechanically field attachable fitting that creates a metal-to-metal seal that requires NO O-rings, which have a finite lifespan and can degrade over time.

DoubleTrac has a 15 Year aboveground limited warranty and a 30 year belowground limited warranty.

Omega Flex offers a team of in-house engineers dedicated to assisting with piping layouts and answering technical questions about the DoubleTrac system, and DEF-Trac Insulated and Heat Traced piping system for DEF. Omega Flex offers no-cost training and certification of new installers.

Features and Benefits of DEF-Trac

DEF-Trac is a pre-assembled single wall 316 Stainless Steel flexible piping system. Uninsulated or insulated with 120VAC BSX Self Regulating Heat Trace, helically wrapped throughout the piping. DEF-Trac sizes 1", 1-1/2", and 2".

DEF-Trac is controlled by an easy-to-use stand-alone Heat Trace Controller, which is GFI EPD protected.

DEF-Trac Heat Trace Controller has a temperature set at 38 Degrees Fahrenheit

The controller protects and monitors the Heat Trace Cable, includes a built-in visual and audible alarm for Heat Trace failures, output relays for remote alarm devices, and has an outdoor rated enclosure.

DEF-Trac is manufactured at a maximum length of 200 feet. Long lengths minimize the number of fitting connections, reducing the amount of leak points and saving labor time.

Stainless steel fittings - field attachable

Self-flaring – metal-to-metal sealing

(1) 200-foot reel of 1-1/2" and 2" DEF-Trac draws approximately 8.0A nominal operating current. (1) 200-foot reel of 1" DEF-Trac draws approximately 6.0A nominal operating current.

DEF-Trac does not require any special tools.

Fluid components meet ISO 22241-3 standards.



2" DoubleTrac® piping with 90° Elbows for Off-road Diesel dispenser (Left) and Master/Satellite Diesel Dispenser (Right) and 1" DEF-Trac® for DEF Dispenser (Center)



2" DoubleTrac® and 1" DEF-Trac® completed aboveground system for commercial trucks.

