



CASE STUDY

DoubleTrac® Stainless Steel Piping for Comfort Inn Hotel

- Saves Time
- Saves Money
- Increases Installation Options

Product:

DoubleTrac® Continuous Monitoring System (UL 1369)

Location: Queens, NY

Max Foong and Richard Fung of Eastern Elite, Inc. were awarded a backup generator job at the Comfort Inn, Queens, NY 11101.

Eastern Elite, Inc. chose to use DoubleTrac® based on the new aboveground UL 1369 listing which NFPA 30 adopted in 2021, allowing DoubleTrac® to meet NY Builder Code BB2014-010. Additionally, DoubleTrac has a 2-hour fire rating and can be continuously monitored using DoubleTrac®'s Continuous Monitoring System.

Prior to UL1369 being adopted by NFPA 30, welded steel over steel was the only approved fuel oil piping allowed in the 5 boroughs of New York City. This method required a skilled welder, a fire watch assistance, shutting down floors of the hotel, and testing of all welded primary and secondary piping joints. The additional labor to install 120 feet of welded steel over steel fuel oil supply and return lines throughout the hotel would have taken multiple days.

A significant benefit of DoubleTrac® is the ability to purchase DoubleTrac® in long continuous lengths; therefore eliminating welded joints typically found in rigid steel over steel applications.

The ability to run DoubleTrac® continuously from point A to B results in faster installation times and a 90% reduction in potential leak points.

The DoubleTrac® Continuous Monitoring System (P/N# UGF-CM-KIT) is designed to provide visual and audible alarms whenever a primary leak is detected in the fuel sensor housing. The DoubleTrac® Continuous Monitoring System consists of a stand-alone alarm monitor, (2) fuel sensors, (2) fuel sensor housings, and connecting hoses that attach to a Schrader valve in the secondary port of the DoubleTrac® field attachable fitting. The alarm monitor, powered by 120VAC, has visual and audible alarms along with output relays that enable it to communicate with other systems in the event of an alarm.

The backup generator system at the Comfort Inn consisted of a 300-gallon AST installed in a first-floor Mechanical room, a duplex pump set, (1) 1" x 120ft long DoubleTrac fuel oil supply line, and (1) 1-1/2" x 120ft long DoubleTrac fuel oil return line. DoubleTrac® was run through the building to feed the belly tank on the rooftop generator. This proved to be a cost-effective solution to create an aboveground continuously monitored double contained fuel piping system for a rooftop generator. The time it took to install the fuel oil supply and return was 8 hours and the DoubleTrac® Continuous Monitoring system was installed in a couple of hours with the electrical service and sensor wiring for the system completed by

< DoubleTrac® Continuous Monitoring Systems P/N# UGF-CM-KIT (Fuel sensor housings with the Fuel Sensors) connected to the Secondary Test Ports of the DoubleTrac® fittings on DoubleTrac® fuel oil supply and return lines Fuel Oil Supply and Fuel Oil Return.

(continued on back)

Comfort Inn, Queens, NY



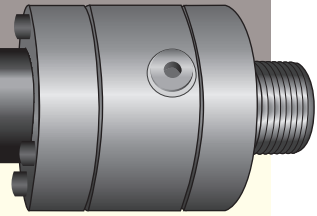
Omega Flex, Inc. • 451 Creamery Way • Exton, PA 19341
1-800-355-1039
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DBT-230 03/22

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(continued from front)

the electrician the following day. Completing this project using threaded or welded pipe would have taken significantly more time and thus increasing the overall installation cost.

Eastern Elite, Inc. had a successful installation using the DoubleTrac® Fuel Piping System and the DoubleTrac® Continuous Monitoring System at the Comfort Inn Hotel. Max Foong and his crew are currently working on a backup generator job in Brooklyn, NY and intend to use DoubleTrac® as their chosen fuel piping system.

Features and Benefits of DoubleTrac

DoubleTrac® piping system has both a primary and secondary containment jacket and is listed with UL 1369 under file number MH 45578, titled: ABOVEGROUND PIPING FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS.

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

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

DoubleTrac®'s innovative doublewall 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 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, low Sulphur diesel blends, biodiesel, gasoline, and aviation and jet fuels.

DoubleTrac® has received a 2-Hour Fire Listing by UL (Underwriters Laboratory) under UL1369.

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 degrade over time.

All wetted surfaces of DoubleTrac® piping and fittings are type 316 stainless steel.

DoubleTrac® has a 15 Year Aboveground Warranty.

OmegaFlex® offers a team of in-house engineers dedicated to assist with piping layouts and answering technical questions about DoubleTrac® piping system. OmegaFlex® offers no cost training and certification of new installers.



DoubleTrac® Continuous Monitoring System P/N# UGF-CM-KIT (Alarm Controller) mounted on the wall. The Alarm Controller's output relays are tied into the duplex pump set to shut it off in the event of a detected leak.



Mechanical Room AST and Fuel Sensor Housings.

