



CASE STUDY

DoubleTrac® Stainless Steel Piping for Marinas

- Saves Time
- Saves Money
- Increases Installation Options

Product:

DoubleTrac® Stainless Steel Piping for Marinas

Location: Havre de Grace, Maryland

Throughout the United States, there are thousands of privately owned marinas that have the capability to dispense fuel. Marinas, with fuel dispensing capabilities, operate under various regulatory requirements focused on operational safety and environmental protection. Marina owners must follow state and local codes and invest vast sums of money to comply with these codes and standards. Before investing capital funds into their marinas, owners must choose a knowledgeable petroleum contractor, the best fuel piping, and the least downtime to their marinas.

Leon Kucharski of Tank System Services LLC, located in Havre de Grace, Maryland, has found the best way to combat these issues is by using DoubleTrac by OmegaFlex.

Leon is a State Certified Underground Storage Tank (UST) Inspector for the state of Maryland, including Marinas.

He is also a Steel Tank Institute Shop Fabricator Inspector. With over 12 years of experience, Kucharski and his team have been involved in the design of several marinas throughout Maryland.

Tanks System Services' most recent piping installations include Skip Jack Marina, Chesapeake Yacht Club Marina, and Aberdeen Proving Ground Marina. Leon is aware that each Marina has its own unique challenges that must be met, which is why he likes the features and benefits of DoubleTrac.

DoubleTrac is a double-wall fuel piping that has a 316L Stainless Steel primary and an Engineered Fluoropolymer EFEP (Ethylene Fluorinated Ethylene Propylene) as a secondary barrier that is bonded to a Nylon 12 outer jacket, which is UV protected.

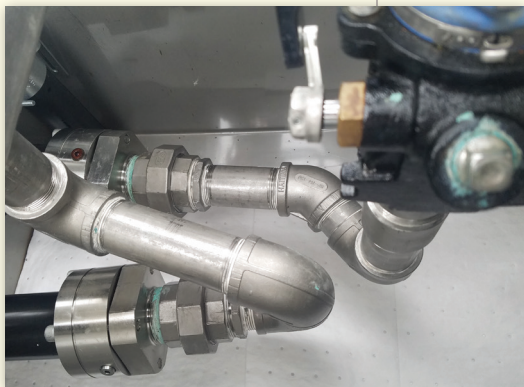
DoubleTrac can be considered a "green product" because the primary Stainless-Steel piping has zero permeation, and the EFEP/Nylon12 outer jacket has nearly zero percent permeation (.000001%). DoubleTrac is a true fuel-ready pipe and is the best choice for today's Recreational Fuels, Bio Diesel, and Low Sulphur Diesel blends.

DoubleTrac pipe and fittings are UL 971A listed and meet the salt spray test requirements of ASTM-B-117-90. It passed a 2-hour fire test witnessed by UL (Underwriters Laboratories). It also meets the stringent requirements of the Florida Department of Environmental Protection for marina piping systems.

DoubleTrac has a patented mechanical field attachable fitting that creates a metal-to-metal seal that require NO O-rings, which have a finite life span and can degrade over time. It is a highly engineered piping and fitting assembly that is robust enough to last when installed over rivers, lakes, and ocean waters.

(continued on back)

DoubleTrac's flexibility allows for easy installation into custom containment boxes.



DoubleTrac's Patented fitting with four cap screws in the back, allows for the fitting to be threaded on to attachments in complicated pipe layouts, prior to tightening the fitting.



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(continued from front)



DoubleTrac is shipped on a robust 80" reel with a 3" arbor hole, allowing the pipe to be unrolled using normal construction equipment.



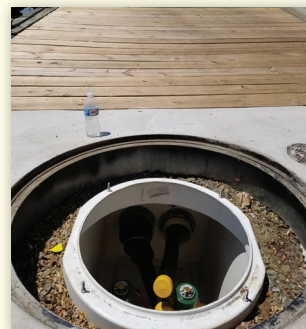
DoubleTrac's patented field attachable fittings allows an easy transition from existing fuel pipes.

DoubleTrac can be purchased in a variety of lengths supplied on reels. One of the advantages of DoubleTrac is the ability to be delivered in long lengths. The benefit of long lengths is fewer transition sumps and fitting connections, reducing potential leak paths. It can also be ordered in shorter lengths to minimize waste and control costs. DoubleTrac has a 15-Year Limited Warranty and a 30-Year belowground Limited Warranty.

DoubleTrac supplies Double Wall Elbows and Tee fittings as well. OmegaFlex offers a team of in-house Engineers dedicated to assisting with any type of piping layout or technical question about their fuel piping products. Typically, DoubleTrac is ideal for fixed dock installations. Floating docks are unique and require OmegaFlex Engineering to determine if DoubleTrac can be used along a gangway. When OmegaFlex determines DoubleTrac cannot be used along a gangway, the dock-to-shore connection should be an approved flexible connector. OmegaFlex can design a reinforced double containment 316L Stainless Steel over a 316L Stainless Steel Dock Connector capable of enduring severe tidal movement. Dock Connectors are custom fabricated, and the fitting attachment is TIG welded. Contractors must be certified to install DoubleTrac, and OmegaFlex offers on-site training free of charge.

Often, marina work is done in the off-boating season. Leon and his team like the fact that DoubleTrac can be installed in all weather conditions. Another benefit Leon and his team like is the ease of running the length of continuous pipe under a pier or dock, and the simplicity of installing the fittings is a plus to the Tank System Services team. Leon said, "he has never installed a fitting that did not hold air the first time." He also likes that OmegaFlex has several entry fitting options that can be chosen depending on the type of containment sump used and its location. The right combination of a knowledgeable contractor and the best fuel piping for marina applications is a recipe for success.

Marina owners are spending vast sums of money complying with the newest petroleum/Marina state and local codes. Owners in Maryland can rest assured if they want a superior UL971A listed double containment piping system installed with the least downtime to their marinas. They should contact Tank Systems Services LLC. and ask for Leon.



Due to DoubleTrac's Stainless Steel primary and Nylon 12 outer jacket, DoubleTrac Pipe instantly relaxes once off the reel.

Once off the reel, DoubleTrac is easily pulled through a sump or chase way.



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