



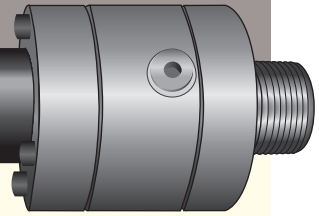
CASE STUDY

DoubleTrac® Stainless Steel Piping for Marinas

- Saves Time
- Saves Money
- Increases Installation Options

Product:
DoubleTrac® UL1369 Listed Aboveground Fuel Piping Used for Marinas

Location: Oacoma, South Dakota



Located near Chamberlain in Oacoma South Dakota is the Arrowwood Cedar Shore Resort which rests along the banks of the Missouri River. Cedar Shore Marina is a resort amenity with stunning views of the open waters and ample opportunities for outdoor recreation. The resort built a new marina with several boat slips and is adding a new fueling system. Cedar Shore Marina will fuel thousands of boats throughout the boating season.

Jason Munson with Dockendorf Equipment Company located at 830 E.15th Street Sioux Falls, South Dakota 57101, introduced DoubleTrac® stainless steel Double Containment piping with a dual UL listing (UL971A for Metallic Underground Fuel Pipe and UL1369 for Aboveground piping for Flammable and Combustible Liquids), to Arrowwood Resort as the preferred marina fuel piping.

Dockendorf Equipment Company was awarded the job because Jason was able to showcase the fact DoubleTrac® is UL369 listed with a special use rating for marinas. In addition,

NFPA 30 has recognized UL1369 and has adopted the standard in 2021 and is added to the new NFPA 30 2024 Revision.

DoubleTrac® stainless steel Double Containment piping can be purchased in continuous long lengths which reduces potential leak points and fewer installation hours.

The job consisted of 2" DoubleTrac® piping being installed approximately 55 feet from an existing underground transition sump to a new S. Bravo Systems stainless steel aboveground transition sump. The stainless steel transition sump is manufactured big enough to install two DoubleTrac® Entry Fittings, two DoubleTrac® End Fittings, a ball valve, solenoid valve, and marine break-away.

DoubleTrac® piping exited the stainless steel transition sump and routed in a S (serpentine) configuration under the gangway to approximately 50 feet to a DoubleTrac® Double Containment 90° Elbow Fitting.

DoubleTrac® piping was routed in a S (serpentine) configuration to add enough length in the piping to compensate for the change in water elevations.

DoubleTrac® piping continued from the DoubleTrac® Double Containment 90° Elbow Fitting into a black steel UDC (Under Dispenser Containment Sump), approximately 30 feet from where the DoubleTrac® End Fitting terminated into a schedule 40 steel 90° fitting. The fuel piping system had a secondary and primary pressure test with no sign of pressure loss.

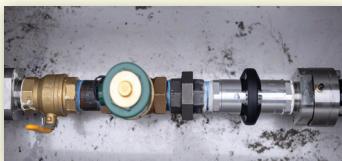
Jason Munson likes the robustness of DoubleTrac® piping and believes DoubleTrac® piping is the preferred piping for marina applications. Dockendorf Equipment Company has a second marina installation using DoubleTrac® piping.

To view a time-lapse video of DoubleTrac® stainless steel Double Containment piping being installed at Cedar Shore Marina please scan the QR code.

Arrowwood Cedar Shore Resort Overview



2" DoubleTrac® installed in existing underground transition sump.



Stainless-Steel Aboveground Transition Sump





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DoubleTrac® Stainless Steel Piping for Marinas

Features and Benefits of DoubleTrac®

The 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® piping to slide easily over and around structures during installation. The outside diameter of the 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 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.

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

DoubleTrac® piping's 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® piping 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® piping 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® piping and fittings are UL 971A listing (Metallic Underground Fuel piping for flammable fuels). and UL 1369 listed (Aboveground piping for flammable and combustible liquids).

DoubleTrac® piping passed a 2-hour Fire Test per UL 1369 Standard.

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

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

DoubleTrac® piping has a 15-year limited warranty for aboveground applications and a 30-year limited warranty for belowground applications.

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



2" DoubleTrac® Double Containment 90° Elbow Fitting



2" DoubleTrac® End Fitting terminated in steel UDC.



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Omega Flex, Inc.
451 Creamery Way • Exton, PA 19341
1-800-355-1039
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