

File MH45578
Project 06CA44803

Issued: March 12, 2008
Revised: August 31, 2020

REPORT

ON

UNDERGROUND PIPING FOR FLAMMABLE LIQUID **(QLXT)**
ABOVEGROUND PIPING FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS (QLVZ)

OMEGA FLEX INC
Exton, PA

Copyright © 2008 Underwriters Laboratories Inc.

Underwriters Laboratories Inc. authorizes the above-named company to reproduce this Report provided it is reproduced in its entirety.

PRODUCT COVERED:

USL, CNL - Metallic Underground Piping for Flammable Liquids - Series DoubleTrac - 1, 1-1/2 and 2 in. diameter Flexible Type Piping for use as Integral Primary/Secondary Pipe System (PS), Normal Vent (NV) and Vapor Recovery (VR) for underground fuel transfer applications such as gas stations for Motor Vehicle (MV), High Blend (HB), Concentrated (CT) and Aviation and Marine (A&M) Fuels.

COMPLEMENTARY LISTING:

USL, CNL -Secondary Containment Aboveground Pipe for Flammable and Combustible Liquids - Series DoubleTrac - 1, 1-1/2 and 2 in. diameter for General-use Fuels, B100, DEF and Ammonia Hydroxide with 120 minute fire rating and Marine Use.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REP USE):

USL - Indicates investigation to Standard UL 971A, ANSI/CAN/UL/ULC 1369:2020.

CNL - Indicates investigation to Canadian Standard CAN/ULC-S679:2017, ANSI/CAN/UL/ULC 1369:2020.

GENERAL SYSTEM DESCRIPTION:

The pipe and fittings are intended for underground or aboveground use for handling motor vehicle, high blend, concentrated and aviation and marine fuels.

The primary pipe consists of a single corrugated layer stainless steel primary pipe and the secondary consists of a layer of EFEP with a barrier layer of Nylon 12. The pipe is assembled with metal fittings. Fittings are assembled to the pipe in the field. The piping is joined to fittings as described in herein.

SIZES and RATINGS:

The pipe and fittings are available in the following sizes with pressure ratings as indicated.

Nominal Pipe _Size (in.)_	Primary Pipe Pressure Rating _Maximum (psi)_	Closed Secondary Pressure Rating _Maximum (psi)_	Minimum Bend Radius (in./mm)
1	125	50	12/304.8
1-1/2	100	50	24/609.6
2	75	50	32/812.8

* For aboveground applications, the pipe is rated for temperature range of -30°C to 50°C, marina use with fixed piers, semi-fixed piers and floating docks with minimum bend radius specified above, maximum 80° bend angle and **2 hour** fire rating. Pipe maybe provided with support brackets for mounting. The maximum vertical span between brackets is 15 feet and 10 feet for horizontal spans.

TECHNICAL CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE): See Section General

MANUFACTURER, LOCATION AND IDENTIFICATION: See Section General

GENERAL QUALITY CONTROL OF PRODUCTION: See Section General

MARKINGS and INSTRUCTIONS: See Section General

The pipe and fittings are designed to be joined in the field in accordance with the manufacturer's assembly instructions using only components supplied by Omega Flex Inc.

TESTS TO BE CONDUCTED BY THE MANUFACTURER: See Section General