Dualoy® 3000/L Secondary Containment Pipe and Fittings

Uses and Applications	 Service station product, vent and vapor recovery piping Bulk plant terminals and fueling terminals Central fuel oil systems Marinas and marine terminals (onshore only) All piping systems requiring UL or ULC Listing for MV, HB, CT and A&M fuels Containment piping for all of the above
Description	Dualoy 3000/L secondary containment systems require pipe one size larger than the primary and specially designed fittings. The system provides complete enclosure of UL- and ULC-Listed Dualoy primary piping used in product lines and vapor recovery lines from the sump at the product storage tank to the shear valve connector at the dispenser, and vent lines from the tank. Dualoy containment systems have been sized for close make-up and ease of installation.
	Features of Dualoy 3000/L containment systems include:
	 Filament-wound, fiberglass-reinforced pipe with integral liner; Compact fittings dimensions to minimize trench excavation; Smooth exterior pipe surface that eliminates the need for special end preparation tools; Ready accessibility to and complete inspectability of primary fittings prior to closure of the containment; Complete testability during installation and at any time thereafter; Rapid joint makeup with pre-inserted nuts and ambient cure adhesive.
	Dualoy 3000/L is Listed in the United States with Underwriters Laboratories Standard 971-2004 for nonmetallic underground piping for motor vehicle (MV), high blend (HB), concentrated (CT) and aviation and marine (A&M) fuels for both primary and contained piping systems (File MH9162). Dualoy 3000/L pipe and fittings are also Listed with Underwriters' Laboratories of Canada (File CMH715). In Great Britain the Dualoy/3000L system has been tested and accepted by the London Fire and Civil Defense Authority. Dualoy 3000/L has been issued a Certificate of Compliance to the Institute of Petroleum (IP) Specification by ERA Technology, Ltd.
Performance	Operating pressures to 100 psig Continuous operating temperatures to 150°F (66°C) Individual system components may not have the same ratings as the pipe. Refer to the detailed product informa- tion for the specific components to determine the pressure rating for the system as a whole.

Secondary employs full-performance pipe — Many contained fuel handling systems employ materials in the secondary that fall far short of the primary piping in regard to chemical resistance and mechanical strength. By contrast, Dualoy 3000/L systems are manufactured with the same high-performance fiberglass-reinforced pipe in the secondary as in the primary. Thus, Dualoy 3000/L containment systems easily withstand both high external loads from backfill and traffic as well as internal pressures as high as 100 psig.

Compact containment fittings — Dualoy 3000/L containment fittings are compact clamshell-type closure pieces. Crossovers can be made with the same centerline-to-centerline dimension as single-wall system.



Piping System Precision pipe exterior eliminates scarfing — Dualoy pipe is manufactured in a proprietary continuous Characteristics winding process that provides an extremely precise, consistent outside diameter. Light sanding of the pipe end to remove the surface gloss and obtain a suitable bonding surface is the only end prep required, although

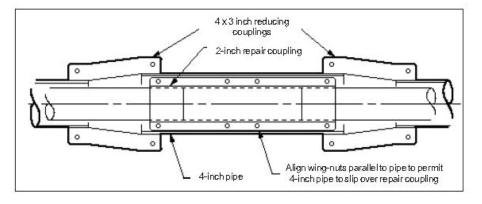
the scarfing feature of tapering tools can be used.

Easy containment fitting assembly — Dualoy 3000/L containment fitting clamshells are supplied in matched pairs. One half of each pair is fitted with pre-inserted propeller nuts, allowing the fitting to be assembled from one side, using the bolts provided.

Complete retestability — Dualoy 3000/L containment employs rigid-wall pipe and fittings that maintain their slope during the entire service life of the station. When installed with isolating penetration fittings (see page 3), Dualoy 3000/L containment piping can be repeatedly retested whenever desired.

Convenient repair capability — Contained piping systems are occasionally damaged after installation. Damage is generally caused by paving or excavation operations. Dualoy3000/L contained piping systems are designed so that only the damaged section need be replaced instead of the entire line. The 2-inch Dualoy repair coupling is sized so that it can be contained within 4-inch Dualoy 3000/L containment pipe.

Two-inch primary pipe contained within 3-inch containment pipe can be repaired with a UL-listed 2-inch repair coupling. The containment is restored by replacement of a section of the existing containment pipe with a 4-inch containment nipple. The 4-inch replacement nipple is then joined to the existing containment pipe with Dualoy reducing couplings.

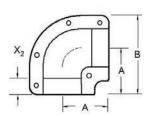


Containment Pipe and Fittings Dimensions

Pipe

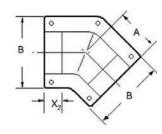
	Nominal Pipe Size		В	С	X ₂	No. of	Wt.
in	mm	in	in	in	in	Bolt Holes	lb
3	80	3.50	3.32	—	—	_	0.72
4	100	4.50	4.33	—	_	—	1.00
6	150	6.63	6.39	_	_	—	2.10

ws
ws



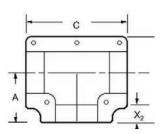
				1			
3	80	4.28	7.28	—	1.50	5	1.1
4	100	4.77	8.25	—	1.50	5	1.3
6	150	5.62	10.53	_	2.00	8	1.5

45° Elbows



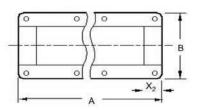
3	80	3.50	6.00	—	1.50	5	0.8
4	100	3.75	7.00	_	1.50	5	1.2
6	150	6.32	9.75	—	2.00	8	1.5

Tees



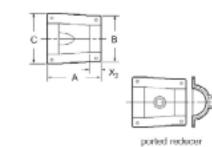
Nominal Pipe Size		А	В	С	X ₂	No. of Bolt Holes	Wt.
in	mm	in	in	in	in	BOIT HOIES	lb
3	80	4.28	7.24	8.56	1.50	5	1.2
4	100	4.78	8.25	9.58	1.50	5	1.6
6	150	5.72	10.67	11.65	2.00	6	1.7

Couplings



2	50	14.00	4.00	_	1.50	8	1.3
3	80	14.00	6.00	—	1.50	8	1.7
4	100	14.00	7.00	—	1.50	8	2.0
6	150	5.37	9.75	—	4.00	10	2.0

Reducers, Plain and with ³/₄ inch NPT Outlet

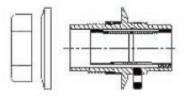


3 x 1½ 80 x 40 6.25 4.48 6.10 1.50 4 0.6 80 x 40 **1.1**⁽¹⁾ 3 x 1½ 6.25 4.47 6.10 1.50 4 3 x 2 80 x 50 6.25 4.90 6.10 1.00 4 0.7 3 x 2 80 x 50 6.25 4.90 6.10 1.00 4 **1.1**⁽¹⁾ 100 x 80 7.00 6.00 7.00 1.50 4 x 3 4 0.9 100 x 80 7.00 6.00 7.00 1.50 2.0(1) 4 x 3 4 6 x 4 150 x 100 7.17 7.62 9.74 2.00 6 1.0

(1) Ported reducer

Sump Penetration Fittings

Sump penetrations are designed for use at turbine sumps and dispenser pans. Plain sump penetration fittings permit the annular space between the primary and secondary lines to communicate with the interior of the sump or pan. Penetration fittings with factoryinstalled centralizers, sleeve couplings and monitoring ports may be used to isolate the pipe annular space from the sump or pan. When the annular space is so isolated, the secondary containment line can be retested at any time and as often as desired.



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