

Dualoy[®] 3000/LCX Installation

Dualoy[®] 3000/LCX Secondary Containment Fittings for Closed Systems

IMPORTANT INFORMATION - FOLLOW ALL INSTRUCTIONS

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 All underground piping systems with closed containment systems as defined by and requiring Listing by UL or cUL for motor vehicle, high blend, concentrated or aviation and marine fuels. Designed for use with pressure, vacuum or hydrostatic monitoring systems Underground use only
Description	Dualoy 3000/LCX piping is UL Listed for use with Motor Vehicle Fuels, Concentrated Fuels, High Blend Fuels and Aviation and Marine Fuels. The integral containment system is UL Listed as a Closed System when installed according to this guide.
	The Closed system rating consists of the following components:
	Ameron Dualoy 3000/LCX coaxial pipe
	 3000/LCX Containment Clamshell Elbows and Tees with reinforcing pipe rings
	• 3000/LCX Containment Clamshell Couplings and Termination Sleeves
Listings and approvals	The ring-reinforced clamshell fittings, as part of Dualoy 3000/LCX product are Listed in United States and Canada with Underwriters Laboratories for nonmetallic underground piping for motor vehicle, high blend, concentrated or aviation and marine fuels under File MH9162.

Performance



Containment pressure rating to 50 psig. Continuous operating temperatures to 150°F (66°C).

Reinforcement ring dimensions

The reinforcement rings are made from Dualoy 3000/L or Dualoy 3000/LCX primary pipe.

Elbow reinforcement ring



Ring Nominal	OD	ID	А	В	Clamshell
Size (in)	(in)	(in)	(in)	(in)	Size (in)
3	3.51	3.33	1.0	3.0	2
4	4.51	4.33	1.5	3.6	3

Tee trunk reinforcement ring





Ring	OD	ID	А	В	а	R	Clamshell
Nominal Size (in)	(in)	(in)	(in)	(in)	(dea)	(in)	Size (in)
5126 (11)					(ucg)		5120 (11)
3	3.51	3.33	1.0	3.0	-	-	2
4	4.51	4.33	1.5	3.6	37	1.0	3

Tee branch reinforcement ring



Ring Nominal	OD	ID	А	В	Clamshell
Size (in)	(in)	(in)	(in)	(in)	Size (in)
3	3.51	3.33	1.0		2
4	4.51	4.33	1.5	3.7	3

Bonding reinforced containment piping

Reinforcements are required only for 90° elbows, 45° elbows and tees for a 50 psig rating.

The reinforcement rings should be properly located inside the clamshells during the bonding. Item #1 is the clamshell fitting and items #2 and #3 are the reinforcements.



Reinforced	45 °	elbow
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A (in)	Ring Nominal Size (in)
	5120 (11)
3.12	3
3.76	4
	0.112

Reinforced 90°	elbow	
Clamshell	А	Ring Nominal
Size (in)	(in)	Size (in)
2	3.75	3
3	4.80	4



Re	int	for	ced	tee

Clamshell Size (in)	A	Ring Nominal Size (in)
2	3.75	3
3	4.80	4

Bonding procedure

The bonding procedures specific to the reinforced clamshell fittings are described here. For more details of common installation procedures refer to Ameron Installation Practices for Dualoy 3000/LCX coaxial FIBERGLASS PIPING SYSTEM WITH BONDED CLAMSHELL FITTINGS, BULLETIN 9903, FP824.



Apply adhesive to the whole outside surface of the reinforcement ring.

Bonding surfaces on pipe, reinforcement rings

Reinforcement rings should be placed over the

and clamshells must be fully sanded.

primary line before bonding it.

Apply adhesive to all bonding surfaces on pipe as well.

Apply adhesive to the clamshell flange, rim and inside bonding surfaces.



Put the lower half of the clamshell on first. Make sure it is the half with propeller nuts.

Bonding procedure (continued)



Adjust the reinforcement rings if necessary to make sure they are properly located.



Close the upper half of the clamshells, place bolts and tighten properly.

Remove excess adhesive and leave a smooth bead.

Health and safety information

FOR CHEMICAL EMERGENCY SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL **CHEMTREC**-DAY OR NIGHT 1-800-424-9300 Toll-free in the continental U.S. 202-483-7616 in District of Columbia For calls originating outside the continental U.S. 202-483-7616-Washington D.C. collect

Toxicity of adhesive

Hardener: Irritating to the skin, eyes and respiratory tract; toxic orally; may cause sensitization.

Resin: May be mildly irritating to skin and eyes; may cause sensitization.

Handling precautions for adhesive

Hardener: Do not get in eyes, on skin or clothing. Avoid breathing vapor. Wash thoroughly after handling. When handling in the field, wear gloves and eye protection. When handling in bulk quantities, wear rubber gloves, rubber apron and NIOSH approved respirator.

Resin: Avoid contact with eyes, skin or clothing. When handling in the field, wear gloves and eye protection. Wash thoroughly after handling.

First aid for adhesive users

In case of contact

Eyes: Immediately flush with plenty of water for at least 15 minutes. Call a physician.

Skin: Wash with water and soap if available.

Clothing: Remove contaminated clothing and wash before reuse.

Inhalation: Remove to fresh air. Give oxygen or artificial respiration if necessary. **Ingestion:** If hardener is swallowed and person is conscious, give plenty of water or milk to drink. **Do not induce vomiting.** Call a physician. If resin is swallowed, give 100 grams (about ¹/₄ lb) of activated charcoal slurry in water. **Do not induce vomiting.** Call a physician.

Important notice

This literature and the information and recommendations it contains are based on data reasonably believed to be reliable. However, such factors as variations in environment, application or installation, changes in operating procedures, or extrapolation of data may cause different results. Ameron makes no representation or warranty, express or implied, including warranties of merchantability or fitness for purpose, as to the accuracy, adequacy or completeness of the recommendations or information contained herein. Ameron assumes no liability whatsoever in connection with this literature or the information or recommendations it contains.



FIBERGLASS-COMPOSITE PIPE GROUP - HEADQUARTERS 9720 Cypresswood Dr, Suite 325 • Houston, TX 77070 • Tel: (832) 912-8282 • Fax: (832) 912-9393 • www.ameron-fpg.com

Asia Ameron (Pte) Ltd. No. 7A, Tuas Avenue 3 Singapore 639407 Tel: 65 6861 6118 Fax: 65 6862 1302/861 7834 email: info@ameron.com.sg Europe Ameron B.V. J.F. Kennedylaan 7 4190 CA Geldermalsen The Netherlands Tel: 31345 587 587 Fax: 31345 587 561 email: info@ameron-fpg.nl
 The Americas

 P.O. Box 878

 Burkburnett, Texas 76354

 Tel: (940) 569-1471

 Fax: (940) 569-2764

 email: marcom@ameronfpd.com

Centron International P.O. Box 490 600 FM 1195 South Mineral Wells, Texas 76068 Tel: (940) 325-1341 Fax: (940) 325-9681 www.centrongre.com

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