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LIW NO. L-6631  
CARDOX # L-1466-W3

FORM U-1A MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS  
Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only

1. Manufactured by Leader Iron Works, Inc. Decatur, Illinois  
(Name and address of Manufacturer)

2. Manufactured for Cardox Division of Chemetron Chicago, Illinois  
(Name and address of Purchaser)

3. Type Horiz. Vessel No. (43285) (Mfrs. Serial) (State & State No.) Natl. Bd. No. 43329 Yr. Built 19 67

4. SHELL: Mati. SA-212-B Flg. T.S. 70,000 Nom. 31/32" Corr. 0 In. Allow. 0 In. Diam. 6 Ft. 6 In. Length 21 Ft. 0 In.  
(Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.)

5. SEAMS: Long Weld Dbl. H.T. no X.R. Spot Sectioned No Efficiency 85 %  
(Welded, Dbl. Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)  
Girth Weld Dbl. H.T. No X.R. Spot Sectioned No No. of Courses 3

6. HEADS: (a) Material SA-212-B Flg. T.S. 70,000 (b) Material \_\_\_\_\_ T.S. \_\_\_\_\_  
Location (Top, bottom, ends) Thickness .8125 Min. Crown Radius \_\_\_\_\_ Knuckle Radius \_\_\_\_\_ Elliptical Ratio 2:1 Conical Apex Angle \_\_\_\_\_ Hemispherical Radius \_\_\_\_\_ Flat Diameter \_\_\_\_\_ Side to Pressure (Convex or Concave) Concave  
(a) Ends  
(b) \_\_\_\_\_  
If removable, bolts used \_\_\_\_\_ Other fastening \_\_\_\_\_  
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)

7. Constructed for max. allowable working press. 363 psi. at max. temp. 650 °F. Min. temp. (when less than -20°) \_\_\_\_\_ °F. Hydrostatic Test Press. 550 psi.  
~~550~~ ~~550~~

8. SAFETY OR RELIEF VALVE OUTLETS: Number \_\_\_\_\_ Size \_\_\_\_\_ Location Furn. & Applied In Field

9. NOZZLES\*(continued)

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
<u>Coil</u>	<u>2</u>	<u>1 1/2"</u>	<u>Pipe</u>	<u>SA-53</u>	<u>X-HVY</u>	<u>----</u>	<u>Welded</u>
<u>Outlet &amp; Vent</u>	<u>5</u>	<u>1 1/2"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>----</u>	<u>"</u>

10. INSPECTION Manholes, No. 1 Size 15" Location In Head  
OPENINGS: Handholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
Threaded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

11. SUPPORTS: Skirt No Lugs \_\_\_\_\_ (Number) \_\_\_\_\_ Legs \_\_\_\_\_ (Number) \_\_\_\_\_ Other (2) Lift Eyes Attached Screwed into pads  
(Yes or No) (Describe) (Where & How)

12. REMARKS: 24 Ton CO<sub>2</sub> Storage Tank  
Built to 1965 ASME Code

\*9. Continued: OUTLET 1 1" Pipe SA-53 X-HVY ---- Welded

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.P.G., Etc.—State Contents)  
\* If postweld heat-treated.  
\* List other internal or external pressures with coincident temperature when applicable.

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Unfired Pressure Vessels.  
Date May 25 19 67 Signed Leader Iron Works, Inc. By [Signature]  
(Manufacturer)  
Certificate of Authorization Expires 12-31-67

**CERTIFICATE OF SHOP INSPECTION**

VESSEL MADE BY Leader Iron Works, Inc. at Decatur, Illinois

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and for the State of Illinois and employed by The Fidelity & Casualty Co. of New York at New York have inspected the pressure vessel described in this manufacturer's data report on May 25 1967 and state that to the best of my knowledge and belief the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date May 25 1967  
[Signature] Commissions NB# 3673, PA# 1498 and OHIO  
Inspector's Signature Nat'l Board or State and No.