

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. (Name and address of Manufacturer) Decatur, Illinois

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

3. Type Horiz. Vessel No. (32242) (Mfrs. Serial) (State & State No) Natl. Bd. No. 32437 Yr. Built 1959

4. SHELL: Matl. A-212-B Flg. T.S. 70,000 Nom. Thk. 3/4 In. Allow. 0 In. Diam. 4 Ft. 6 In. Lgth. 6 Ft. 5 In.

5. SEAMS: Long Weld-D-Butt S.R. No X.R. Spot Sectioned No Efficiency 80 %
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

Girth Weld-D-Butt S.R. No X.R. Spot Sectioned No No. of Courses 1

6. HEADS: (a) Material A-212-B Flg. T.S. 70,000 (b) Material _____ T.S. _____

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) <u>Ends</u>	<u>9/16" Min.</u>			<u>2:1</u>				<u>Concave</u>
(b)								

If removable, bolts used _____ Other fastening _____ (Describe or Attach Sketch)

7. Constructed for Int. pressure of 363 psi Max Temp 650 °F Subzero -20 °F Hydrostatic Test 546 psi

8. SAFETY OR RELIEF VALVE OUTLETS: Number _____ Size _____ Location _____

9. NOZZLES:

Purpose (Inlet, Outlet, Drain)	Number	Diam or Size	Type	Material	Thickness	Reinforcement Material	Welded How Attached
<u>Inlet</u>	<u>1</u>	<u>4"</u>	<u>Noz.</u>	<u>SA-53</u>			<u>Welded</u>
<u>Outlet & Vent</u>	<u>(2) 1"</u>	<u>& (2) 1 1/2"</u>	<u>X. Hy. IPS Pipe</u>	<u>SA-53</u>			<u>Welded</u>
<u>Coil Outlet</u>	<u>2</u>	<u>1 1/2"</u>	<u>X. Hy. IPS Pipe</u>	<u>SA-53</u>			<u>Welded</u>

10. INSPECTION Manholes, No. 1 Size 15" Location Head

OPENINGS Handholes, No. _____ Size _____ Location _____

Threaded, No. _____ Size _____ Location _____

11. SUPPORTS: Skirt _____ Lugs 4 Legs _____ Other _____ Attached Shell-Welded
(Yes or No) (Number) (Number) (Describe) (Where & How)

12. REMARKS: 4 Ton CO2 Storage Tank built in accordance with 1956 ASME Code.

If riveted or brazed describe seams fully under remarks.

(Brief description of purpose of the vessel, as Air Tank, Water Tank, L.P.G., Etc.—State Contents.)

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this vessel conform to the ASME Code for Unfired Pressure Vessels.

Date 11-3 1959 Signed Leader Iron Works, Inc. (Manufacturer) By [Signature]

Certificate of Authorization Expires 12/31/61

NOV 10 1959

CERTIFICATE OF SHOP INSPECTION

Inspection Agency's Serial No. H.S.B. 32412

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

I, the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Unfired Pressure Vessels in the STATE OF Illinois and employed by Hartford Steam Boiler Insp. & Ins. Co. of Hartford, Conn. inspected internally and externally, the vessel described in this report on _____ 19____, and certify that the statements made in this report are correct corresponding with mill test reports of materials furnished by the builders, and measurements made of the vessel and that this vessel is constructed in accordance with the ASME Code for Unfired Pressure Vessels.

Date 11-3 1959
[Signature] Inspector's Signature Commissions UB4189 State or Natl. Bd. & Number