

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. (41745) (Mfrs. Serial) (State & State No.) Natl. Bd. No. 41789 Yr. Built 1962

4. SHELL: Matl. A-212-B Flg. T.S. 70000 Non-11/16" Corr. 0 In. Diam. 4 Ft 6 In. Lgth. 14 Ft 4 In.
(Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.) (Thick. Allow.)

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

Girth Weld D Butts.R. No X.R. Spot Sectioned No No. of Courses 2

6. HEADS: (a) Material A-212-B Flg. T.S. 70000 (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 * psi Max Temp 650 °F Subzero 20 °F Hydrostatic Test 546 psi

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

9. NOZZLES: Inlet 1 6" Nozz. SA-53 .432 Reinforcement Material _____ How Attached _____

Purpose (Inlet, Outlet, Drain)	Number	Diam or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Outlet & Vent	<u>(2) 1"</u>	<u>(2) 1 1/2"</u>	<u>X-HVY. IPS Pipe</u>	<u>SA-53</u>			<u>Welded</u>
Coil Outlet	<u>(2) 1 1/2"</u>		<u>X-HVY. 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 No Lugs 6 Legs _____ Other _____ Attached Shell Welded
(Yes or No) (Number) (Number) (Describe) (Where & How)

12. REMARKS: 7 1/2 Ton CO2 Storage Tank

(*) 363 P.S.I. - 1962 ASME - 85%
351 P.S.I. - 1955 OHIO - 80%

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 11-26 19 62 Signed Leader Iron Works, Inc. By [Signature]
(Manufacturer)

Certificate of Authorization Expires 12-31-64

CERTIFICATE OF SHOP INSPECTION

H.S.B. Inspection Agency's Serial No. 41906

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 11-26 1962 Inspector's Signature [Signature] Commissions NB 41662 & Ohio State or Natl. Bd. & Number