

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 Decatur, Illinois  
(Name and address of Manufacturer)

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

3. Type Horiz. Vessel No. (43493) (Mfrs. Serial) (State & State No.)  
Natl. Bd. No. 43536 Yr. Built 1968

4. SHELL: Matl. SA-515-70 T.S. 70,000 Non 31/32 Corr. 0  
(Kind and Spec. No.) (Flg or F.B. & Spec. Min. T.S.) (Spot of Complete) (Yes or No) In. Allow. 0 In. Diam. 6 Ft. 6 In. Length 53 Ft. 0 In.

5. SEAMS: Long Weld Dbl. H.T. No. X.R. Spot Sectioned No Efficiency 85 %  
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot of Complete) (Yes or No)  
Girth Weld Dbl. H.T. No. X.R. Spot Sectioned No No. of Courses 7

If riveted or brazed describe seams fully under remarks

6. HEADS: (a) Material SA-515-70FLGQ T.S. 70,000 (b) Material \_\_\_\_\_ T.S. \_\_\_\_\_

(a) Location (Top, bottom, ends) 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

(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.

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

9. NOZZLES: \*Continued on #12.

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>A-53</u>	<u>Sch. 80</u>	<u>None</u>	<u>Welded</u>
<u>Inlet</u>	<u>1</u>	<u>2 1/2"</u>	<u>Pipe</u>	<u>A-53</u>	<u>Sch. 80</u>	<u>None</u>	<u>Welded</u>

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

11. SUPPORTS: Skirt No Lugs (Number) \_\_\_\_\_ Legs (Number) \_\_\_\_\_ Other (Describe) \_\_\_\_\_ Attached (Where & How) \_\_\_\_\_

12. REMARKS:  
Vent 1 1" Pipe A-53 Sch. 80 None Welded  
Gauge & Fill 2 2" Pipe A-53 Sch. 80 None Welded

52 Ton CO<sub>2</sub> Storage Tank (Built to 1968 A. S. M. E. Code)

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 Oct. 24 1968 Signed Leader Iron Works, Inc. (Manufacturer)  
Certificate of Authorization Expires 12/31/70

CERTIFICATE OF SHOP INSPECTION

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

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors, of the State of Illinois and employed by The Fidelity & Casualty Co. New York

have inspected the pressure vessel described in this manufacturer's data report on October 24 1968 and state that to the best of my knowledge and belief the manufacturer has constructed this pressure vessel in accordance with the requirements of the ASME Code for Unfired Pressure Vessels.

By signing this certificate, neither the Inspector nor the manufacturer warrants, represents or guarantees the quality of the pressure vessel described in this manufacturer's data report. Furthermore, neither the Inspector nor the manufacturer shall be liable in any manner for any personal injury or property damage, or a loss of any kind arising from the use of the vessel.

Date October 24 1968  
[Signature]

NB #3673, PA#1498 and Ohio