

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

42669

1. Manufactured by Capital City Iron Works, Inc., Richmond, Va.
(Name and address of Manufacturer)

2. Manufactured for Hercules, Inc., Wilmington, North Carolina # 103967
(Name and address of Purchaser)

3. Type Vert. Vessel No. (30716-2) () Natl. Bd. No. 585 Yr. Built 1972
(Horiz. or Vert.) (Mfrs. Serial) (State & State No.)

4. SHELL: Matl. SA-240 TY 316L T.S. 70,000 Nom. .25 Thk. 4375 In. Allow 0 In. Diam. 4 Ft. 0 In. Length 9 Ft. 0 In.
(Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.)

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

Girth Butt Weld H.T. No R.T. None Sectioned No No. of Courses 2

If riveted or brazed describe seams fully under remarks.

6. HEADS: (a) Material SA-240 TY 316L T.S. 70,000 (b) Material SA-240 TY 316L T.S. 70,000
Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Contour Apex Angle Hemispherical Radius Flat Diameter Side to Pressure (Convex or Concave)

(a) Top .375 48" 3" Concave

(b) Bottom .375 48" 3" Concave

If removable, bolts used (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or Attach Sketch)

7. Constructed for max. allowable working press. 200 psi at max. temp. 350 °F. Min. temp. (when less than -20°) °F. Hydrostatic Test Press 150 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	How Attached
<u> </u>	<u>1</u>	<u>1 1/2"</u>	<u>L/T Flg.</u>	<u>316L S/S Sch. 40S</u>	<u> </u>	<u> </u>	<u>Welded</u>
<u> </u>	<u>1</u>	<u>1 1/2"</u>	<u>S/O Flg.</u>	<u>316L S/S Sch. 10S</u>	<u>304 S/S</u>	<u> </u>	<u>Welded</u>

10. INSPECTION Manholes, No. 1 Size 20" Location Lower Shell

OPENINGS: Handholes, No. Size Location

Threaded, No. Size Location

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

12. REMARKS: For other fittings see back of this sheet.

DME Flash Tank

W2 not applicable.

Nameplate located above manhole on shell.

Non-corrosive material.

(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 Pressure Vessels, Section VIII, Division 1.

Date NOV 24 1972 Signed Capital City Iron Works, Inc. By TWJ
(Manufacturer)

Certificate of Authorization No. 1283 Expires December 31, 1974

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Capital City Iron Works, Inc., Richmond, Virginia

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province Maryland and employed by Hartford S. B. I. & L. Co. of Hartford, Conn. have inspected the pressure vessel described in this manufacturer's data report on NOV 24 1972 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 11-24 19 72

TWJ
Inspector's Signature

Commissions NOB 2572 - NC 374
Natl Board, State, Province and No.