

S-14 R2

# 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 Section VIII -- Division I and the National Board

1. Manufactured by Whiting Metals, Inc., Camden, S. C. 29020  
(Name and address of Manufacturer)  
2. Manufactured for Hardwicke Chemical Co., Elgin, S. C.  
(Name and address of Purchaser)  
3. Type Vert. Vessel No. F-2289-1 (Mfrs. Serial) (State & Std. No.) Nat'l Bd. No. 320 Yr. Built 1978  
(Horiz. or Vert.)  
4. SHELL: Mat'l SA-240 T.S. 75M Thk. 5/16 in. Allow. 0 in. Diam. 5 ft. 0 in. Length 8 ft. 0 in.  
(Kiss, and Spec. No.) (Flg. or F. B. & Spec. Min. T.S.)  
5. SEAMS: Long Wld, Dbl, Butt H.T. No R.T. No Sectioned No Efficiency 70 %  
(Welded, Dbl, Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)  
Wld, Sgl, Butt Girth No H.T. No R.T. No Sectional No No. of Courses 1  
(Yes or No) (Spot or Complete) (Yes or No)  
6. HEADS: (a) Material SA-240-304 T.S. 75M (b) Material \_\_\_\_\_ T.S. \_\_\_\_\_  
(Top, bottom, ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex angle Hemispherical Radius Flat Diameter (Convex or Concave) Side to Pressure  
(a) Top & Btm 5/16" 48" 6 1/2" Concave  
(b) \_\_\_\_\_  
If removable, bolts used \_\_\_\_\_ Other fastening \_\_\_\_\_  
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)  
7. Constructed for max. 100 psi. at max. temp. 350 °F Min. temp. (when less than 200) \_\_\_\_\_ °F Hydrostatic Pneumatic or Combination } 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  
Inlet 2 2 Flg 181-1 150 \_\_\_\_\_ Wld  
Outlet 2 2 Flg 181-1 150 \_\_\_\_\_ Wld  
Temp 1 1 1/4 Scr 304 3000 \_\_\_\_\_ Wld  
10. INSPECTION Manholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
OPENINGS Handholes, No. 1 Size 8" Location Shell  
Threaded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
11. SUPPORTS: Skirt \_\_\_\_\_ Lugs \_\_\_\_\_ Legs (4) Other \_\_\_\_\_ Attached \_\_\_\_\_  
(Yes or No) (Number) (Number) (Describe) (Where & How)  
12. REMARKS: 1230 gallon vacuum receiver for non-corrosive service, contents unknown, non-removable backing bar on top head - shell seam  
PO# B1548

(Brief description of purpose of the vessel, as Air Tank, After Cooler, Jacketed Cooker, etc. State contents.)  
1 If Postweld Heat Treated 2 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, Section VIII, Division I.

Date 7-17-78 19 78 Signed Whiting Metals, Inc. By J. R. Cohen  
(Manufacturer)

Certificate of Authorization Expires 1-31-79 Cert. No. 10330

## CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Whiting Metals, Inc., at Camden, S. C.

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tenn. and employed by Comm. Union Ins. Co. of Boston, Mass. have inspected the pressure vessel described in this manufacturer's data report

on 7/17/78, 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 7/17/78 19 78  
B. L. Hawkins Commissions NB# 6816, Tenn St. #865  
Nat'l Board, State, Province and No.