

**FORM U-1A MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS**

Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only

1. Manufactured by Air Products and Chemicals, Inc. Wilkes-Barre, Pennsylvania  
(Name and address of Manufacturer)

2. Manufactured for I & M Division, Air Products and Chemicals, Inc. Trexlertown, Pennsylvania  
(Name and address of Purchaser)

3. Type Vert Vessel No. (NB1774) Ohio Special Natl. Bd. No. 1774 Yr. Built 1963  
(Name or Vessl) (Mfrs Serial) (State & State No) 2379

4. SHELL: Matl. SA-353 Gr B T.S. 100,000 Code Case 1308 Nom. 2/10 Corr. O.D. Thk. In Allow 9 In. Diam. 7 Ft. 6 In. Lgth. 13 Ft. 8 In.  
(Kind and Spec. No.) (Plg. of F B & Spec. Mfr. T.S.)

5. SEAMS: Long Dbl. Welded s.R. No. X.R. Complete Sectioned No Efficiency 100 %  
(Welded, Dbl. Single, Lap, Butt) (Yes or No) (Sheet or Complete) (Yes or No)  
 Girth Dbl. Welded s.R. No. X.R. Complete Sectioned No No. of Courses 2

6. HEADS: (a) Material SA-353 Gr B T.S. 100,000 Code Case 1308 (b) Material T.S.  
(Top, Bottom, Head) (Yes or No) (Sheet or Complete) (Yes or No)

Location	Thickness	Corona Radius	Knock-in Radius	Elliptical Ratio	Conical Apex angle	Hemispherical Radius	Flat Diameter	Note to Pressure (Concave or Convex)
(a) <u>Top &amp; Bottom</u>	<u>.250"</u>	<u>90"</u>	<u>2 1/2"</u>					<u>CONCAVE</u>
(b)								

If removable, bolts used \_\_\_\_\_ Other fastening \_\_\_\_\_  
(Material, Spec. No., F.B. Rivet, Washer) (Describe or Attach Sketch)

If riveted or brazed describe same fully under remarks

7. Constructed for (Int. pressure of Ohio 50 PSIG NB 50) psi Max Temp 100 °F Subzero -320 °F Hydraulic Test 93 psi  
(Int. pressure) (Describe or Attach Sketch)

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>Liq. Fill-Drain</u>	<u>1</u>	<u>3"</u>	<u>Pipe</u>	<u>SA-353 Gr B</u>	<u>.216"</u>	<u>None</u>	<u>Welded</u>
<u>Gas Phase</u>	<u>1</u>	<u>2"</u>	<u>Pipe</u>	<u>SA-353 Gr B</u>	<u>.218"</u>	<u>None</u>	<u>Welded</u>

10. INSPECTION Manholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 OPENINGS Handholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 Threaded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

11. SUPPORTS: Skirt No Lugs 6 Legs \_\_\_\_\_ Other \_\_\_\_\_ Attached Top & Bottom Head Welded  
(Yes or No) (Number) (Number) (Describe) (Where & How)

12. REMARKS: Project 06-3-1320-16, 24, 4600 Gal Inner Vessel, Dwg. 82019-1 Rev 1, S/O 47078  
Built in accordance to Sect. VIII 1962 ASME Code & Code Case 1308. Impact Tested.

9. NOZZLES: (CONT'D.)

NO.	DIAM	TYPE	MATERIAL	THICKNESS	REINFT MATL	HOW ATTACHED
<u>Fill, Return, Phase (lea.)</u>	<u>3</u>	<u>1"</u>	<u>Pipe SA353 Gr B</u>	<u>.179"</u>	<u>None</u>	<u>Welded</u>
<u>Trycock</u>	<u>1</u>	<u>1/2"</u>	<u>Sleeve SA353 Gr B</u>	<u>.147"</u>	<u>None</u>	<u>Welded</u>
<u>Liq. Phase, Gas Phase (lea.)</u>	<u>2</u>	<u>5/8"</u>	<u>Adapter SA353 Gr B</u>	<u>.187"</u>	<u>None</u>	<u>Welded</u>

(Brief description of purpose of the vessel, as Air Tank, Water Tank, I. 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 May 28 19 63 Signed Air Products and Chemicals, Inc. By Leslie Duke  
(Manufacturer)  
 Certificate of Authorization Expires December 31, 1964

**CERTIFICATE OF SHOP INSPECTION**

Inspection Agency's Serial No. NB1774

VESSEL MADE BY Air Products and Chemicals, Inc. at Wilkes-Barre, Pennsylvania

I, the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Unfired Pressure Vessels in THE STATE OF Penna. and employed by The Commercial Union Insurance Co. of New York, 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 May 28 1963  
Edward Brownell Inspector's Signature  
 Commissions NB 9886 State or Natl. Bd. & Number

Printed in U. S. A. Copies of this Form obtainable from Amer. Soc. Mech. Eng., 29 W. 39th St., New York 18, N. Y.  
 Note: Design Pressure Ohio 54 PSIG, NB 54 PSIG at 0 PSIA External Pressure. Maximum allowable Working Pressure Ohio 50 PSIG, NB 50 PSIG at 0 PSIA External Pressure. Plus 9 PSIG Head pressure.