



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

291
949

(Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

- 1. Manufactured by Air Products & Chemicals, Inc. Wilkes Barre, Penna.
(Name and address of manufacturer)
- 2. Manufactured for Air Products & Chemicals, Inc. Trexlerstown, Penna.
(Name and address of purchaser)
- 3. Location of Installation Built for stock
(Name and address)
- 4. Type Vert. Vessel No. 79-334-4 N/A 404371E
(Horizontal or vertical tank) (Mfg's Serial No.) (CRN) (Drawing No.)
5985 Year Built 1979
(Nat'l Id No.)
- 5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1, 1977 and Addenda to Winter 1977 and Code Case no. N/A
(Year) (Date)
Special Service per UG-120(d) N/A

Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A

(Name of part, item number, mfg's name and identifying stamp)

- 6. Shell: Material BB207-5083-0 Nominal Thickness .292 in. Corrosion Allowance 0 in.
(Spec No Grade)
Diam. 5 ft. 6 in. Length 16 ft. 0 in.

(See reverse side)

CERTIFICATE OF COMPLIANCE

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 10 Dec. 1979 Signed Air Products & Chemicals, Inc. by W D Suselman
(Manufacturer) (Representative)

"U" Certificate of Authorization No. 10,956 expires 30 March, 1980

CERTIFICATE OF SHOP INSPECTION

Vessel made by Air Products & Chemicals, Inc. at Wilkes Barre, Penna.
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Penna. and employed by Commercial Union Ins. have inspected the pressure vessel described in this Manufacturers' Data Report on 10 Dec. 1979 and state that, to the best of my knowledge and belief, the Manufacturer has constructed the pressure vessel in accordance with ASME Code, Section VIII, Division 1.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the Manufacturers' Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 10 December 1979
Signed James P. O'Connell Commissions NB6563 Pa. 2292
(Inspector) (Nat'l Board State Province and No.)

7 Seams: Longitudinal Dbt Butt R.T. Full Efficiency 100 %
(Welded Dbt Sngl Lap Butt) (Spot or Full)

H.T. Temp No °F Time N/A Girth Sgl weld w/bu
(Welded Dbt Sngl Lap Butt)

R.T. Partial No. of Courses 1
(Spot Partial or Full)

8. Heads: (a) Material BB209-5083-0 (b) Material BB209-5083-0
(Spec No Grade) (Spec No Grade)

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a) <u>Top</u>	<u>.294"</u>	<u>0</u>	<u>-</u>	<u>-</u>	<u>2:1</u>
(b) <u>Bottom</u>	<u>.294"</u>	<u>0</u>	<u>-</u>	<u>-</u>	<u>2:1</u>

Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) <u>-</u>	<u>-</u>	<u>-</u>	<u>Concave</u>
(b) <u>-</u>	<u>-</u>	<u>-</u>	<u>Concave</u>

If removable, bolts used (describe other fastenings) N/A
(Material Spec No. Gr. Size, No.)

Constructed for max. allowable working pressure 70 * psi at max. temp. +150 °F. Min. temp. (when less than -20°F) -320 °F. ~~hydrostatic~~ pneumatic, or combination test pressure 125 psi.

9. Safety Valve Outlets: Number 1 Size 1" Location Top Head

10. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached
<u>T&B fill & liq to coil</u>	<u>2</u>	<u>1 1/4"</u>	<u>noz.</u>	<u>SB221,6061T6</u>	<u>.250"</u>	<u>none</u>	<u>welded</u>
<u>Liq wdrl & vent</u>	<u>2</u>	<u>1"</u>	<u>noz.</u>	<u>SB221,6061T6</u>	<u>.250"</u>	<u>none</u>	<u>welded</u>
<u>Up&Low liq lev&trycock</u>	<u>3</u>	<u>1/2"</u>	<u>noz.</u>	<u>SB221,6061T6</u>	<u>.234"</u>	<u>none</u>	<u>welded</u>

11. Inspection Openings:

Manholes No. N/A Size _____ Location _____
 Handholes No. _____ Size _____ Location _____
 Threaded No. _____ Size _____ Location _____

12. Supports: Skirt No Lugs No Legs No Other 8 Pads
(Yes or No) (No) (No) (Describe)

Attached Shell Welded
(Where and how)

13. Remarks: Line 8. * At full vacuum

Project: 05-0-3106 - 14.00 3200 gallon inner tank

Overall length = 22' 10"