

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

#100953

1. Manufactured and certified by PAUL MUELLER COMPANY 1600 W. PHELPS SPRINGFIELD, MO 65802
(Name and address of manufacturer)

2. Manufactured for ELI LILLY AND COMPANY LILLY CORPORATE CENTER INDIANAPOLIS, IN 46285
(Name and address of purchaser)

3. Location of installation ELI LILLY AND COMPANY 1650 LILLY ROAD SHADELAND, IN 47905
(Name and address)

4. Type VERTICAL P37989 NA PC06999D REV.E 18396 1991
(Horizontal or vertical tank) (Mfg's serial No.) (CRN) (Drawing No.) (Net Bd No.) (Year built)

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 1989
Year

to A89 NA NA
(Addenda (Data)) (Code Case Nos.) (Special Service per UG-120(d))

6. Shell: SA240 316 1874" 0 4' 11.6252" 2' 4.5"
(Matl. (Spec. No., Grade)) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. I.D. (ft. & in.)) (Length (overall) (ft. & in.))

7. Seams: WDB NONE 70 NA -- WDB NONE 1
(Long (Welded, Dbl., Engr., Lap, Butt)) (R.T. (Spot or Full)) (EH (%) (H.T. Temp. (°F)) (Time (hr)) (Girth (Welded, Dbl., Engr., Lap, Butt)) (H.T. (Spot, Partial, or Full)) (No. of Courses)

8. Heads: (a) Matl. SA240 316 (b) Matl. SA240 316
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	TOP	.203"	0	60.375"	4"					CONCAVE
(b)	BOTTOM	.176"	0	60.375"	4"					CONCAVE

If removable, bolts used (describe other fastenings) _____
(Matl., Spec. No., Gr., Size, No.)

9. MAWP 50 psi at max. temp. 350 °F
Min. design metal temp. -20 °F at 50 psi Hydro. XXXXXX test pressure 77 psi

10. Nozzles, inspection and safety valve openings: CUSTOMER TO INSTALL SUITABLE PRESSURE RELIEF DEVICE IN LINE.

Purpose (Inlet, Outlet, Drain)	No	Diam or Size	Type	Matl	Nom Thk	Reinforcement Matl.	How Attached	Location
INSPECTION	1	18"	MANWAY	SA240 316	.25"	NONE	WELD	TOP HEAD
UNKNOWN	3	2"	CL150LAPJNT	SA312 316	SCH 40	NONE	WELD	TOP HEAD
OUTLET	1	2"	CL150LAPJNT	SA312 316	SCH 40	NONE	WELD	BOTTOM HEAD

11. Supports: Skirt NO Lugs 4 Other Attached TO PAD WELDED TO SHELL
(Yes or no) (No) (No) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: NA
(Name of part, item number, Mfg's name and identifying stamp)

VESEL IS A 500 GALLON VENT TANK. BOTTOM HEAD RECEIVED SPOT RADIOGRAPHY. VESSEL WAS HYDROSTATICALLY TESTED IN VERTICAL POSITION.

CERTIFICATE OF SHOP 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. "U" Certificate of Authorization No. 5594 expires OCT. 27, 19 92.
Date 7-6-91 Co. name PAUL MUELLER COMPANY Signed Justin A. Swann
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by PAUL MUELLER COMPANY at SPRINGFIELD, MO 65802

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 MISSOURI and employed by COMMERCIAL UNION INSURANCE COMPANY have inspected the component described in this Manufacturer's Data Report on 6-29, 1991, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this 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 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 7-8-91 Signed Greg F. Paccione Commissions NB# 7376
(Authorized Inspector) (National Board (and endorsement), State, Province and No.)