

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

1. Manufactured by THE PFAUDLER CO., a div. of Sybron Corporation, Elyria, Ohio U.S.A.
2. Manufactured for Hoffman-La Roche Inc., Nutley, NJ
3. Location of Installation Hoffman-La Roche Inc., Belvidere, NJ
4. Type Vert. Rec. E278-0860 CE278-0860 38509 (Year Built) 1979
(Horiz. or vert. tank) (Mfr's Serial No.) (CRN) (Drawing No.) (Nat'l Bld 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 Win. 78 and Code Case Nos. 1251
(Year) (Date)
Special Service per UG-120(d) _____
Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: _____
6. Shell: Matl. SA-285-B Nom. 5/16 In. Allow. 0 In. Diam. O.D. 36 in. Lgth. 3 ft 11.5 in.
(Spec. No., Grade) (Thk.) (In. Allow.) (In. Diam.) (O.D.) (in. Lgth.)
7. Seams: Long. DBFW R.T. - Efficiency 70 % H.T. Temp. - F Time - hr
(Welded, Dbl. Sngl. Lap. Butt) (Spot or Full) (Spot or Full)
Girth DBFW R.T. - No. of Courses 1
(Welded, Dbl. Sngl. Lap. Butt) (Spot, Partial, or Full)
8. Heads: (a) Material SA-285-B (b) Material SA-285-B
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Min. Thk.	Corr. Allow.	Crown Radius	Knuckle Radius	Ellipse Ratio	Conical Apex Angle	Hemisp. Radius	Flat Diam.	Side to Pressure (Convex or Concave)
(a) Top	<u>2.75</u>	<u>0</u>	<u>36</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>Concave</u>
(b) Bottom	<u>2.78</u>	<u>0</u>	<u>36</u>	<u>3</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>Concave</u>

If removable, bolts used (describe other fastenings) SA395-1/2-52 Clamps
(Material, Spec. No., Gr., Size, No.)
9. Constructed for max. allowable working pressure EV to 25 psi at max. temp. 650 F. Min. temp. (when less than -20 F) - F. Hydrostatic, pneumatic, or combination test pressure 25 psi.
10. Safety Valve Outlets: Number None Size - Location Safety Devices By Customer
11. Nozzles and Inspection Openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
Inlet	<u>1</u>	<u>2"</u>	<u>Flanged</u>	<u>Case1251</u>	<u>150#</u>	<u>-</u>	<u>Welded</u>	<u>Top</u>
Handhole	<u>1</u>	<u>4"</u>	<u>Flanged</u>	<u>Case1251</u>	<u>100#</u>	<u>-</u>	<u>Welded</u>	<u>Top</u>
Outlet	<u>1</u>	<u>3"</u>	<u>Flanged</u>	<u>Case1251</u>	<u>150#</u>	<u>-</u>	<u>Welded</u>	<u>Bottom</u>
Inlet	<u>1</u>	<u>3"</u>	<u>Flanged</u>	<u>Case1251</u>	<u>150#</u>	<u>-</u>	<u>Welded</u>	<u>Top</u>
Inlet	<u>1</u>	<u>3"</u>	<u>Flanged</u>	<u>Case1251</u>	<u>150#</u>	<u>-</u>	<u>Welded</u>	<u>Shell</u>

12. Supports: Skirt NO Lugs - Legs 4 Other - Attached Welded to Bot. Hd.
(Yes or no) (No.) (No.) (Describe) (Where and how)
13. Remarks: Model VR36-200-25 POWCT glass lined internal for chemical service.

C/O E663355B

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 Aug. 24, 1979 Signed THE PFAUDLER CO. by David K. Shorn
(Manufacturer) (Representative)

"U" Certificate of Authorization No. 11,112 expires April 21, 1980

CERTIFICATE OF SHOP INSPECTION

Vessel made by THE PFAUDLER CO. div. of Sybron Corporation at Elyria, Ohio

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 Ohio and employed by H.S.B.I. & L. Co., have inspected the pressure vessel described in this Manufacturers' Data Report on August 24, 1979, 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 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 a loss of any kind arising from or connected with this inspection.

Signed Michael J. Gual Date 8/24/79 Commissioners NS 8614
(Inspector) (Nat'l Board, State, Province and No.)