

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

K2405

1. Manufactured and certified by ALLOY FAB, INC. 200 RYAN STREET, SOUTH PLAINFIELD, NJ 07080
(Name and address of manufacturer)
2. Manufactured for AMERICAN HOECHST CORPORATION, COVENTRY, RHODE ISLAND
(Name and address of purchaser)
3. Location of installation AMERICAN HOECHST CORPORATION, COVENTRY, RHODE ISLAND
(Name and address)
4. Type VERT TANK 2888 --- D-1710 1759 1986
(HORIZ. OR VERT. TANK) (Mfg.'s serial No.) (CRN) (Drawing) (Nat'l. 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. 1983
Year
- WINTER 1985 --- ---
Addenda (date) Code Case No. Special services per UG-120(d)

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or sheets of heat exchangers

6. Shell: SA-240-316L .125 --- --- ---
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (Overall) (ft. & in.)
7. Seams: FILLET --- --- --- ---
Long. (DBL., Singl.) R.T. (Spot or Full) Ell. (X) H.T. Temp. (F)
- FILLET --- --- --- (18) TURNS @
Time Girth (DBL., Singl.) R.T. (Spot, Partial or Full) No. of Courses

8. Heads: (a) Mat'l. SA-312-316L (Spec. No., Grade) (b) Mat'l. --- (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)	BOTTOM	.120"	---	1.75"	---	---	---	---	---	CONCAVE
(b)										

If removable, bolts used (describe other fastenings) WELDED TO HEAD
(Mat'l., Spec. No., Gr., Size No.)

9. Type of Jacket 3" HALF PIPE COIL (5) TURNS @ 41" Proof Test UG-101 (a)
10. Jacket Closure END PLATE 3/16" TK If bar, give dimensions --- If bolted, describe or sketch ---
(Describe as open & weld, bar, etc.)
11. MAWP 230 psi at max. temp. 450 °F. Min. temp. (when less than -20° F) --- °F.
Hydro., pneu., or comb. test press. 362 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: --- --- --- --- ---
Stationary Mat'l. (Spec. No., Gr.) Diam. (in.) (Subject to pressure) Nom. Thk. (in.) Corr. Allow. (in.) Attach (Welded, Bolted)
- --- --- --- ---
Floating Mat'l. (Spec. No., Gr.) Diam. (in.) Nom. Thk. (in.) Corr. Allow. (in.) Attach
13. Tubes: --- --- --- --- ---
Mat'l. (Spec. No., Gr.) O.D. (in.) Nom. Thk. (in. or Gauge) Number Type (Straight or 'U')

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: SA-240-316L .500 .250 6'-0 0.0 8'-7"
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (Overall) (ft. & in.)
15. Seams: WELDED DBL. BUTT FULL 100 ---
Long. (DBL., Singl.) R.T. (Spot or Full) Ell. (X) H.T. Temp. (F)
- WELDED DBL. BUTT FULL ---
Time Girth (DBL., Singl.) R.T. (Spot, Partial or Full) No. of Courses
16. Heads: (a) Mat'l. SA-240-316L (Spec. No., Grade) (b) Mat'l. --- (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 &	.625	.250"	66"	4.75	---	---	---	---	CONCAVE &
(b)	BOTTOM	---	---	---	---	---	---	---	---	CONVEX

If removable, bolts used (describe other fastenings) ---
(Mat'l., Spec. No., Gr., Size No.)

17. MAWP F.V./90 psi at max. temp. 390 °F. Min. temp. (when less than -20° F) --- °F.
Hydro., pneu., or comb. test press. 137 psi.

Form U-1 (Back)

1B Nozzles, Inspection and Safety Valve Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Size or Size	Type	Matl.	Nom Thk.	Reinforcement Matl.	How Attached	Location
MANWAY	1	20"	RING	SA-240-316L	.25"	----	WELDED	TOP HEAD
SIGHT GLASS	1	6"-150#	PAD	SA-240-316L	1.1875"	----	WELDED	---
PROCESS	1	14"-150#	S.O.	SA-240-316L	.375"	----	WELDED	---
PROCESS	2	8"-150#	L.T.&G.	SA-240-316L	.375"	----	WELDED	---
PROCESS	5	4"-150#	S.O.	SA-312-316L	SCH. 40	----	WELDED	---
PROCESS	1	3/4"-3000#	C'PLG	SA-182F-316L	TH'D.	----	WELDED	---
PROCESS	6	2"-3000#	C'PLG	SA-182F-316L	TH'D.	----	WELDED	---
PROCESS	1	4"-150#	PAD	SA-240-316L	1.1875"	----	WELDED	---

19 Supports: Skirt NO Logs --- Logs --- Other RING Attached WELDED TO SHELL W/GUSSETS
(Yes or no) (No) (No) (Describe) (Where and how)

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

1500 GALLON H.P.C.J. DISTRIBUTION TANK
P.O. # 507612 ITEM # B-400

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. 7130 expires JANUARY 31, 19 87

Date 6-21-86 Co. name ALLOY FAB, INC. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by ALLOY FAB, INC. at SOUTH PLAINFIELD, NJ 07080

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 NEW JERSEY and employed by COMMERCIAL UNION INSURANCE COMPANY

of BOSTON, MASSACHUSETTS have inspected the pressure vessel described in this Manufacturer's Data Report on _____, 19 _____, 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 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 loss of any kind arising from or connected with this inspection.

Date 6-23-86 Signed [Signature] Commissions 6058 NG 392
(Authorized Inspector) (N.B. Board, State, Province, and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforming with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19 _____

Date _____ Co. name _____ Signed _____
(Assembler that certified and constructed field assembly) (Representative)

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

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 _____ and employed by _____

of _____ have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. 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 loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ Commissions _____
(Authorized Inspector) (N.B. Board, State, Province, and No.)