

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 Industrial Alloy Fabricators, Inc. Richmond, Va.
 2. Manufactured for Union Carbide Corp.
 3. Location of Installation Institute, WV
 4. Type vert 36228 D-3241D 1063 (Year Built) 82
(Horiz. or vert. tank) (Mfr's Serial No.) (CRN) (Drawing No.) (Nat'l Brg 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 80 and Addenda to Summer, 82 and Code Case Nos. _____
(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. SA240Gr316L Thk. .250 in. Allow. .0625 in. Diam. 36 ID in. Lgth. 36 ft 0 in. OA
(Spec. No., Grade)

7. Seams: Long. wld. dbl. butt R.T. spot Efficiency 85 % H.T. Temp. _____ F Time _____ hr
(Welded, Dbl, Sngl, Lap, Butt) (Spot or Full)
 Girth wld. dbl. butt R.T. spot No. of Courses 4
(Welded, Dbl, Sngl, Lap, Butt) (Spot, Partial, or Full)

8. Heads: (a) Material SA240Gr316L (b) Material _____
(Spec. No., Grade) (Spec. No., Grade)

Location (Top, Bottom, Ends)	Min. Thk.	Corr. Allow.	Crown Radius	Knuckle Radius	Ellipse Ratio	Conical Apex Angle	Hemish. Radius	Flat Diam.	Side to Pressure (Convex or Concave)
(a) <u>top, btm</u>	<u>.210</u>	<u>.0625</u>	<u>36</u>	<u>2.25</u>					<u>both</u>
(b)									

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

9. Constructed for max. allowable working pressure FV&50 psi at max. temp. 370 F. Min. temp. (when less than -20 F) _____ F. Hydrostatic, or pneumatic test pressure 121 psi.
(Material, Spec. No., Gr., Size, No.)

10. Safety Valve Outlets: Number 2 Size 6 Location shell

11. Nozzles and Inspection Openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
<u>inlet</u>	<u>3</u>	<u>1</u>	<u>stub end</u>	<u>SA403WP316L</u>	<u>.179</u>	<u>none</u>	<u>welded</u>	<u>shell</u>
<u>instr</u>	<u>12</u>	<u>1/2</u>	<u>"</u>	<u>"</u>	<u>.200</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>in/outlet</u>	<u>6</u>	<u>3</u>	<u>"</u>	<u>"</u>	<u>.216</u>	<u>"</u>	<u>"</u>	<u>sh, top hd</u>
<u>inlet</u>	<u>1</u>	<u>6</u>	<u>"</u>	<u>SA240Gr316L</u>	<u>.280</u>	<u>SA240Gr316L</u>	<u>"</u>	<u>shell</u>
<u>outlet</u>	<u>1</u>	<u>8</u>	<u>"</u>	<u>"</u>	<u>.322</u>	<u>none</u>	<u>"</u>	<u>btm. hd.</u>
<u>outlet</u>	<u>1</u>	<u>12</u>	<u>"</u>	<u>"</u>	<u>.375</u>	<u>SA240Gr316L</u>	<u>"</u>	<u>top hd.</u>
<u>outlet</u>	<u>1</u>	<u>12</u>	<u>"</u>	<u>"</u>	<u>.375</u>	<u>SA240Gr316L</u>	<u>"</u>	<u>shell</u>
<u>manway</u>	<u>3</u>	<u>24</u>	<u>"</u>	<u>"</u>	<u>.375</u>	<u>"</u>	<u>"</u>	<u>"</u>

12. Supports: Skirt YES Lugs _____ Legs _____ Other _____ Attached welded to btm. hd.
(Yes or no) (No.) (No.) (Describe) (Where and how)

13. Remarks: Chemical process vessel for non-lethal service

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 9/13/82 Signed Indus. Alloy Fab. by Parianne Lawrence
(Manufacturer) (Representative)
 "U" Certificate of Authorization No. 8351 expires March 30, 19 83

CERTIFICATE OF SHOP INSPECTION

Vessel made by Industrial Alloy Fabricators, Richmond, Va.
 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 & Pa. and employed by _____ have inspected the pressure vessel described in this Manufacturers' Data Report on SEP 3 1982 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 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. SEP 15 1982
 Signed C. W. Bragg Date _____ Commissions _____
(Inspector) (Nat'l Board, State, Province and No.)