

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

1. Manufactured and certified by Dusenbery Engineering Co., Inc. 309 E. Hanover Ave.
(Name and address of manufacturer) Morristown, NJ 07962

2. Manufactured for Koch Process Tech., Inc. 1055 Parsippany Blvd. Parsippany, NJ 07054
(Name and address of purchaser)

3. Location of installation Rodel, Inc. Monroe, NC
(Name and address)

4. Type Vert. Tank 1493A - D-1222-09-01,R1 3471 1998
(Horiz. or vert., tank) (Mfr's serial No.) (CRN) (Drawing No.) (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 1995
Year

to 12/96 - None
Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA-240-316L 3/16" - 2'-5-5/8" 4'-0"
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: DBW - 70 - - DBW&SBW,UW-12(2) - 1
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Matl. SA-240-316L (b) Matl. -
(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)	<u>Top&Bot</u>	<u>.153"</u>	<u>-</u>	<u>30"</u>	<u>2.25"</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>Both</u>
(b)										

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

9. MAWP Full Vacuum or 50 psi at max. temp. 400 °F
Min. design metal temp. -20 °F at FV or 50 psi. Hydro., pneu., or comb. test pressure 85 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
<u>Feed, Out</u>	<u>2</u>	<u>3"</u>	<u>150#SOF</u>	<u>SA-312-TP316L</u>	<u>S40S</u>	<u>-</u>	<u>UW-16.1e</u>	<u>Sh1, Hd</u>
<u>Outlet</u>	<u>1</u>	<u>2"</u>	<u>" "</u>	<u>"</u>	<u>"</u>	<u>-</u>	<u>"</u>	<u>Top Hd</u>
<u>Misc.</u>	<u>4</u>	<u>1"</u>	<u>" "</u>	<u>"</u>	<u>"</u>	<u>-</u>	<u>"</u>	<u>Sh1, Hd</u>
<u>Handhole</u>	<u>1</u>	<u>12"</u>	<u>" "</u>	<u>"</u>	<u>S10S</u>	<u>-</u>	<u>"</u>	<u>Shell</u>

11. Supports: Skirt NO Lugs - Legs 3 Other - Attached 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: -
(Name of part, item number, Mfr's. name and identifying stamp)

Vessel used for chemicals. Exempt from impact testing per para. UHA-51(d) & (e). No NDE performed. Vessel tested in horizontal position.
Note: 12" flange & blind are SA-105 lined with SA-240-316L.

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. 1,005 expires 3/31, 2001
Date 5/19/98 Co. name Dusenbery Engineering Co., Inc. (Manufacturer) Signed [Signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Dusenbery Engineering Co., Inc. Morristown, NJ

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of NJ and employed by Commercial Union Insurance Company
have inspected the component described in this Manufacturer's Data Report on 5/19, 1998, 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 5/19/98 Signed [Signature] (Authorized Inspector) Commissions AB5726A-NY572588
(Nat'l. Board (incl. endorsements), State, Prov. and No.)