

TAKEN FROM MASTER DATA REPORT BY NATIONAL BOARD

FORM U-1A MANUFACTURER'S 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 and certified by **Brunner Engineering & Mfg., Inc.** 800-900 X Street, Bedford, Indiana 47421
(Name and address of manufacturer)

2. Manufactured for **Stock**
(Name and address of purchaser)

3. Location of installation **Unknown**
(Name and address)

4. Type **Vertical** **58846K** **E0495.1234567890** **30-3014-REV.8** **58846K** **1997**
(Horiz. or vert. tank) (Mfg.'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**
to **A96** **2046** **-----**
Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: **SA-414 Grade G** **.227** **0.0"** **30" O.D.** **67"**
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: **Type 1** **None** **70%** **-----** **-----** **Type 2** **None** **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) Mat'l. **SA-414 Grade G** (b) Mat'l. **SA-414 Grade G**
(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	186	---	---	---	2:1	---	---	---	Concave
(b)	Bottom	186	---	---	---	2:1	---	---	---	Concave

If removable, bolts used (describe other fastenings) **N/A**

9. MAWP **200** **450**
Min. design metal temp **-20** °F at **200** psi at max. temp
psi. Hydro., pneu., or comb. test pressure **300** Pneu. **psi**

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement	How Attached	Location
Unknown	3	2"	NPT FLG.	SA-181-70	1500#	Mat'l.	Welded	---
Unknown	2	5"	NPT FLG.	SA-181-70	1500#	---	Welded	---
Unknown	2	1"	NPT FLG.	SA-181-70	1500#	---	Welded	---
Unknown	1	25"	NPT FLG.	SA-181-70	1500#	---	Welded	---

11. Supports: Skirt **Yes** **Lugs** **--** **Legs** **--** **Other** **-----** **Attached** **Welded/Bottom**
(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 this report
Built in Accordance with Para. UG-90(c)(2); Exempt from Impact Testing by UG-20(f)
(Name of part, item number, Mfg.'s name and identifying stamp)

INSP. OPEN (2) 2" NPT FLG. SA-181-70 1500# WELDED SHELL

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. **6046** expires **Dec. 31, 1998**
Date **2/28/97** Co. name **Brunner Engineering & Mfg., Inc.** Signed **[Signature]** (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by **Brunner Engineering & Mfg., Inc.** at **800-900 X Street, Bedford, Indiana 47421**
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 **Indiana** and employed by **Kemper Insurance Companies** of **Illinois** have inspected the component described in this Manufacturer's Data Report on **2-28**, 19 **97** 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 **2-28**, 19 **97** Signed **[Signature]** (Authorized Inspector) Commissions **NS-11417 A IN-1667**
(Nat'l. Board and endorsements), State, Prov. and No.)