

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

1. Manufactured by Hopper, Inc. 301 Espee St. Bakersfield, Ca.
(Name and address of manufacturer)

2. Manufactured for stock
(Name and address of purchaser)

3. Location of installation _____
(Name and address)

4. Type vertical Vessel No. 60482-5 11785-20 59 Year Built 1976
(Horiz. or vert. tank) (Mfr's Serial No.) (CRN) (Drawing) (Nat'l Brd 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 1974 and Addenda to S76 and Code Case no. _____
(Date) (Year)
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: _____
(Name of part, item number, mfr's name and identifying stamp)

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers
6. Shell: Material SA240TP304 Nom. Thickness .312 in. Corrosion Allowance 0 in. Diam. 3 ft. 6 in. Length 11 ft. 1 in.
(Spec. No., Grade)

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 5-11-76 Signed Hopper, Inc. by O'Dell Sherrill
(Manufacturer) (Representative)
"U" Certificate of Authorization No. 3862 expires Jan. 30, 19 77

CERTIFICATE OF SHOP INSPECTION

Vessel made by Hopper, Inc. at Bakersfield, Ca.
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by Div. of Ind. Safety of State of Ca. have inspected the pressure vessel described in this Manufacturers' Data Report on 5-6, 19 76, 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.
Date 5-11-76
Signed J. J. Rennie Commissions N.B. 3068
(Inspector) (Nat'l Board, State, Province and No.)

CERTIFICATE OF COMPLIANCE FOR FIELD WORK

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 _____ Signed _____ by _____
(Manufacturer) (Representative)
"U" Certificate of Authorization No. _____ expires _____, 19 _____

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturers' 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 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.
Date _____
Signed _____ Commissions _____
(Authorized Inspector) (Nat'l Board, State, Province and No.)

FORM U-1 (BACK)

7 Seams: Longitudinal SNGL R. T. FULL Efficiency 100 % H.T. Temp. None F Time _____ Girth Sngl R.T. Full No. of Courses 2
(Dbl. Sngl.) (Spot or Full) (Dbl. Sngl.) (Spot Partial or Full)

8 Heads: (a) Material SA240 TP304 (Spec. No. Grade) (b) Material SA240 TP304 (Spec. No. Grade)

	Location (Top Bottom Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a)	TOP	.294	0			2:1
(b)	BTM	.294	0			2:1

	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)				
(b)				

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

9 Type of Jacket _____ Proof Test _____

10 Jacket Closure _____ If bar, give dimensions _____ If bolted, describe or sketch.
(Describe as ogee & weld bar etc.)

11. Constructed for max. allowable working pressure 250 psi at max. temp. 100 F Min. temp. (when less than -20 F) 325 F.
 Hydrostatic, pneumatic, or combination test pressure 375 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: Stationary—Material _____ Diam. _____ in. Nominal Thickness _____ in. Corrosion Allowance _____ in.
(Spec. No. Gr.) (Subject to pressure)

Attachment _____ Floating—Material _____ Diam. _____ in. Nominal Thickness _____ in. Corrosion Allowance _____ in.
(Welded Bolted) (Spec. No., Gr.)

Attachment _____

13. Tubes: Material _____ O.D. _____ in. Nominal Thickness _____ in. or gauge Number _____ Type _____
(Spec. No. Gr.) (Straight or "U")

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

14. Shell: Material _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Diam. _____ ft. _____ in. Length _____ ft. _____ in.
(Spec. No. Gr.)

15. Seams: Longitudinal _____ P.T. _____ Efficiency _____ % H.T. Temp. _____ F Time _____ Girth _____ R.T. _____ No. of courses _____
(Dbl. Sngl.) (Spot or Full) (Dbl. Sngl.) (Spot Partial or Full)

16. Heads: (a) Material _____ (Spec. No. Grade) (b) Material _____ (Spec. No. Grade)

	Location (Top Bottom Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a)						
(b)						

	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)				
(b)				

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

17. Constructed for max. allowable working pressure _____ psi at max temp. _____ F. Min. temp (when less than -20 F) _____ F.
 Hydrostatic, pneumatic, or combination test pressure _____ psi.

Items below to be completed for all vessels where applicable

18. Safety Valve Outlets: Number 1 Size 3/4 Location Vapor line

19. Nozzles:

Purpose: (Inlet, Outlet, Drain)	Number	Diam or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached
High Press.	1	.625	BAR	SA479T304			Welded
low press	1	.625	BAR	SA479T304			welded
full trycock	1	.625	BAR	SA479T304			welded
top fill	1	1.75	BAR	SA479T304			welded

20. Inspection Openings: Manholes No. _____ Size _____ Location _____
 Handholes No. _____ Size _____ Location _____
 Threaded No. _____ Size _____ Location _____

21. Supports: Skirt _____ Lugs _____ Legs _____ Other 4 ea straps Attached welded on tank shell
(Yes, or no) (No) (Describe) (Where and how)

22. Remarks: vapor line 1 1.75 BAR SA479T304 welded
drain line 1 1.75 BAR SA479T304 welded

sterilization storage vessel; Stainless steel, non corrosive service inner vessel only, outer vessel