

**FORM A-1 MANUFACTURER'S DATA REPORT
FOR PRESSURE VESSELS**

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 2

1. Manufactured and certified by _____
(Name and address of manufacturer)
2. Manufactured for _____
(Name and address of purchaser)
3. Location of installation _____
(Name and address)
4. Type _____

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 Code, Section VIII, Division 2.

Year	Class	Code case no.
------	-------	---------------

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

6. Shell _____

Material (spec. no., grade)	Nom. thk.	Corr. allow.	Diameter	Length (overall)
-----------------------------	-----------	--------------	----------	------------------
7. Seams _____

Longitudinal	Heat treatment	Nondestructive examination
Girth	Heat treatment	No. of courses
8. Heads: (a) Matl. _____ (b) Matl. _____

Spec. no., grade	Spec. no., grade
------------------	------------------

	Location (Top, Bottom, End)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)										
(b)										

9. If removable, bolts used (describe other fastenings): _____

	Matl. spec. no., grade, size, number
--	--------------------------------------
10. Jacket closure _____ If bar, give dimensions _____. If bolted, describe or sketch.

Describe as ogee and weld, bar, etc.	
--------------------------------------	--
11. MAWP _____ at max. temp. _____ Min. design metal temp. _____ at _____

(Internal)	(External)	(Internal)	(External)	
------------	------------	------------	------------	--

Impact test _____ At test temperature of _____

Hydro., pneu., or comb test pressure _____

Items 12 and 13 to be completed for tube sections

12. Tubesheets _____

Stationary matl. (spec. no., grade)	Diam. (subject to pressure)	Nom. thk.	Corr. allow.	Attach. (wld., bolted)
Floating matl. (spec. no., grade)	(Diam.)	Nom. thk.	Corr. allow.	Attach. (wld., bolted)
13. Tubes _____

Matl. (spec. no., grade)	O.D.	Nom. thk.	Number	Type (straight or "U")
--------------------------	------	-----------	--------	------------------------

Items 14 to 18 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers

14. Shell _____

Material (spec. no., grade)	Nom. thk.	Corr. allow.	Diameter	Length (overall)
-----------------------------	-----------	--------------	----------	------------------
15. Seams _____

Longitudinal	Heat treatment	Nondestructive examination
Girth	Heat treatment	No. of courses
16. Heads: (a) Matl. _____ (b) Matl. _____

Spec. no., grade	Spec. no., grade
------------------	------------------

	Location (Top, Bottom, End)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)										
(b)										

17. If removable, bolts used (describe other fastenings): _____

	Matl. spec. no., grade, size, number
--	--------------------------------------
18. MAWP _____ at max. temp. _____ Min. design metal temp. _____ at _____

(Internal)	(External)	(Internal)	(External)	
------------	------------	------------	------------	--

Impact test _____ At test temperature of _____

Hydro., pneu., or comb test pressure _____

Manufactured by _____

Manufacturer's Serial No. _____ CRN _____ National Board No. _____

Items below to be completed for all vessels where applicable.

19. Nozzles inspection and safety valve openings

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Material	Nom. Thk.	Reinforcement Material	How Attached	Location

20. Body Flanges

Body Flanges on Shells

No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting				
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material	

Body Flanges on Heads

No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting				
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material	

21. Support Skirt _____ Lugs _____ Legs _____ Other _____ Attached _____
Yes or no No. No. Describe Where and how

22. Service: Fatigue analysis required _____ and _____
Yes or no Describe contents or service

Remarks:

CERTIFICATION OF DESIGN
User's Design Specification on file at _____
Manufacturer's Design Report on file at _____
User's Design Specification certified by _____ PE State _____ Reg. No. _____
Manufacturer's Design Report certified by _____ PE State _____ Reg. No. _____

CERTIFICATE OF SHOP COMPLIANCE
We certify that the statements 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 2.
"U2" Certificate of Authorization No. _____ expires _____
Date _____ Co. name _____ Signed _____ <small style="display: flex; justify-content: space-between; width: 100%;"> Manufacturer Representative </small>

CERTIFICATE OF SHOP INSPECTION
Vessel made by _____ at _____
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by _____ of _____,
have inspected the pressure vessel described in this Manufacturer's Data Report on _____, 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 2. 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 _____ Signed _____ Commissions _____ <small style="display: flex; justify-content: space-between; width: 100%;"> Authorized Inspector National Board Authorized Inspector Commission number </small>

FORM A-1

Page _____ of _____

Manufactured by _____

Manufacturer's Serial No. _____ CRN _____ National Board No. _____

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 2 of the ASME BOILER AND PRESSURE VESSEL CODE.

"U2" Certificate of Authorization No. _____ expires _____

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 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 the ASME Code, Section VIII, Division 2.

The described vessel was inspected and subjected to a hydrostatic test of _____ .

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 _____ Signed _____ Commissions _____
Authorized Inspector National Board Authorized Inspector Commission number