

National Board Number: \_\_\_\_\_

Mfr. Representative: \_\_\_\_\_ Date: \_\_\_\_\_

Authorized Inspector: \_\_\_\_\_ Date: \_\_\_\_\_

**FORM U-3 MANUFACTURER'S CERTIFICATE OF COMPLIANCE  
COVERING PRESSURE VESSELS TO BE STAMPED WITH THE UM DESIGNATOR [SEE U-1(i)]  
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1**

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 \_\_\_\_\_ (Horizontal, vertical, or sphere) \_\_\_\_\_ (Tank, separator, jkt. vessel, heat exch., etc.) \_\_\_\_\_ (Capacity) \_\_\_\_\_ (Manufacturer's serial number)  
\_\_\_\_\_ (CRN) \_\_\_\_\_ (Drawing number) \_\_\_\_\_ (National Board number) \_\_\_\_\_ (Year built)

5. ASME Code, Section VIII, Div. 1 \_\_\_\_\_ [Edition and Addenda, if applicable (date)] \_\_\_\_\_ (Code Case number)

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multichamber vessels.

6. Shell: (a) Number of course(s) \_\_\_\_\_ (b) Overall length \_\_\_\_\_

Course(s)			Material	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No.	Diameter	Length	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time

**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	

7. Heads: (a) \_\_\_\_\_ (Material spec. number, grade or type) (H.T. — time and temp.) (b) \_\_\_\_\_ (Material spec. number, grade or type) (H.T. — time and temp.)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemis. Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)														
(b)														

**Body Flanges on Heads**

	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting				
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material	
(a)													
(b)													

8. Type of jacket \_\_\_\_\_ Jacket closure \_\_\_\_\_ (Describe as ogee and weld, bar, etc.)

If bar, give dimensions \_\_\_\_\_ If bolted, describe or sketch.

9. MAWP \_\_\_\_\_ (Internal) \_\_\_\_\_ (External) at max. temp. \_\_\_\_\_ (Internal) \_\_\_\_\_ (External) Min. design metal temp. \_\_\_\_\_ at \_\_\_\_\_.

10. Impact test \_\_\_\_\_ [Indicate yes or no and the component(s) impact tested] \_\_\_\_\_ at test temperature of \_\_\_\_\_.

11. Hydro., pneu., or comb. test pressure \_\_\_\_\_ Proof test \_\_\_\_\_

Items 12 and 13 to be completed for tube sections.

12. Tubesheet [Stationary (material spec. no.)] [Diameter (subject to press.)] [Nominal thickness] [Corr. allow.] [Attachment (welded or bolted)]  
[Floating (material spec. no.)] [Diameter] [Nominal thickness] [Corr. allow.] [Attachment]

13. Tubes \_\_\_\_\_ (Material spec. no., grade or type) \_\_\_\_\_ (O.D.) \_\_\_\_\_ (Nominal thickness) \_\_\_\_\_ (Number) \_\_\_\_\_ [Type (straight or U)]

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

14. Shell: (a) No. of course(s) \_\_\_\_\_ (b) Overall length \_\_\_\_\_

Course(s)			Material	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No.	Diameter	Length	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time

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	

15. Heads: (a) \_\_\_\_\_ (Material spec. number, grade, or type) (H.T. — time and temp.) (b) \_\_\_\_\_ (Material spec. number, grade, or type) (H.T. — time and temp.)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemis. Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)														
(b)														

Body Flanges on Heads													
	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting				
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material	
(a)													
(b)													

16. MAWP \_\_\_\_\_ (Internal) \_\_\_\_\_ (External) at max. temp. \_\_\_\_\_ (Internal) \_\_\_\_\_ (External) Min. design metal temp. \_\_\_\_\_ at \_\_\_\_\_ .

17. Impact test \_\_\_\_\_ [Indicate yes or no and the component(s) impact tested] \_\_\_\_\_ at test temperature of \_\_\_\_\_ .

18. Hydro., pneu., or comb. test pressure \_\_\_\_\_ Proof test \_\_\_\_\_

19. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	

20. Supports: Skirt \_\_\_\_\_ (Yes or no) Lugs \_\_\_\_\_ (Number) Legs \_\_\_\_\_ (Number) Others \_\_\_\_\_ (Describe) Attached \_\_\_\_\_ (Where and how)

21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report (list the name of part, item number, Manufacturer's name, and identifying number):

22. Remarks

National Board Number: \_\_\_\_\_

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Authorized Inspector: \_\_\_\_\_ Date: \_\_\_\_\_

**FORM U-3 (Contd)**

**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 BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1.

UM Certificate of Authorization Number \_\_\_\_\_ Expires \_\_\_\_\_

Date \_\_\_\_\_ Name \_\_\_\_\_ (Manufacturer) Signed \_\_\_\_\_ (Representative)

Signed \_\_\_\_\_ (Certified individual)