

# FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS

Alternate Form For Single Chamber Completely Shop Fabricated Vessels Only

As required by the Provisions of the ASME Code Section VIII — Division I and the National Board

1. Manufactured by Union Carbide Corporation, Linde Division, Tonawanda, New York UCAR 815  
(Name and address of Manufacturer)

2. Manufactured for Union Carbide Corporation, Linde Division, New York, New York  
(Name and address of Purchaser)

3. Type Vert. Vessel No. TM11000-A388, (      ) Nat'l Bd. No. 7055 Yr. Built 1977  
(Horiz. or Vert.) (Mfr. Serial No. (State & Sta. No.))

4. SHELL: Mat'l SA-553 T.S. 100,000 Thk. .621 in. Allow. 0 in. Diam. 8 ft 9 1/4 in. Length 22 ft 6 in.  
(Kind and Spec. No.) (Fig. or F. B. & Spec. Min. T.S.)

5. SEAMS: Long WSB HT. No R.T. COMP. Sectioned No Efficiency 100 %  
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

6. HEADS: (a) Material SA-553 or SA-353 T.S. 100,000 (b) Material        T.S.         
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

If riveted or brazed describe seams fully under remarks.

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) Top & Bottom	.586 Min			2:1				CONCAVE
(b)								

If removable, bolts used        Other fastening         
(Material, Spec. No., T.S. Size, Number) (Describe or Attach Sketch)

7. Constructed for max. allowable working press. 250 psi. at max. temp. 100 °F Min. temp. (when less than -30°) -320 °F  
(Describe or Attach Sketch) Test Press. 422 psi.

8. SAFETY OR RELIEF VALVE OUTLETS: Number        Size        Location       

Nozzles	Purpose, (Inlet Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	Attachment
3			.75 O.D.	Coup	SA-479 S.	.25 Wall	None	Welded
1			1" P.S.	Pipe	SA-312	Sch. 160	None	Welded
2			1 1/2" P.S.	Pipe	SA-312	XX Hvy (.400)	None	Welded
2			2" P.S.	Pipe	SA-312	XX Hvy (.436)	None	Welded
1			2 1/2" P.S.	Pipe	SA-312	XX Hvy (.552)	None	Welded

10. INSPECTION MANHOLES, No.        Size        Location         
 OPENINGS Handholes, No.        Size        Location         
 Threaded, No.        Size        Location       

11. SUPPORTS: Skirt        Legs        Other        Straps (12) Attached Welded to Shell  
(Yes or No) (Number) (Number) (Describe) (Where & How)

12. REMARKS: Vessel to be used for storage of liquefied gas.  
Closing girth weld joint efficiency 90% longitudinal stress.  
Closing girth weld ultrasonically examined.  
Nozzles installed according to Code Case 1670.

(Brief description of purpose of the vessel, as Air Tank, After Cooler, Jacketed Cooker, etc. State contents of each part.)  
 1 If Postweld Heat Treated 2 list other internal or external pressures with coincident temperature when applicable.

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 I.

Date August 10, 1977 Signed Union Carbide Corp., Linde Div. By [Signature]  
(Manufacturer)

Certificate of Authorization Expires March 30, 1979

**CERTIFICATE OF SHOP INSPECTION**

VESSEL MADE BY U CC Linde Division at Tonawanda, New York

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 New York and employed by Travelers Indemnity Company

of Conn. have inspected the pressure vessel described in this manufacturer's data report on July 28, 1977 and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code. 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 AUGUST 10, 1977

[Signature]  
 Inspector, Signal Fire  
 R. L. Boling

Commission NB7247 Penna WC 2129 & Ohio  
 Nat'l Board, State or Province and No.