

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

Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only

1. Manufactured by American Car and Foundry Division, Milton, Pennsylvania  
(Name and address of Manufacturer)

2. Manufactured for Liquid Carbonic Division of General Dynamics, 527 So. Jefferson St., Chicago, Illinois  
(Name and address of Purchaser)

3. Type Horiz. Vessel No. (44-62049-2) (Mfr. Serial) (State & State No.) Nad. Bd. No. 21146 Yr. Built 1965  
(Horiz. or Vert) (Mfr. Serial) (State & State No.)

4. SHELL: SA-212 Gr.B 70000 FB Nom. 1-1/4 Corr. None Diam. 10 Ft. 10-1/8 In. Length 66 Ft. 3 In.  
(Kind and Spec. No.) (Fig. or P.B. & Spec. Mfr. T.S.) (In.) (In.) (In.) (In.)

5. SEAMS: Long F.W., D.B. H.T. No X.R. Compl. Sectioned No Efficiency 100 %  
(Welded, Dbl. Bead, Leg. Butt) (Yes or No) (Spot or Complete) (Yes or No) (If riveted or brazed describe same fully under remarks.)  
 Gir. F.W., D.B. H.T. No X.R. Compl. Sectioned No No. of Courses 6

6. HEADS: (a) Material SA-212 Gr.B T.S. 70000 FB (b) Material SA-212 Gr.B T.S. 70000 FB

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) <u>End</u>	<u>5/8</u>					<u>65-1/16</u>		<u>Concave</u>
(b) <u>End</u>	<u>5/8</u>					<u>65-1/16</u>		<u>Concave</u>

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

7. Constructed for max. allowable working press. 325 psi. at max. temp. 650 °F. Min. temp. (when less than -20°) \_\_\_\_\_ °F. Hydrostatic Test 490 psi.  
(If post-weld heat-treated) List other internal or external pressures with coincident temperature when applicable.

8. SAFETY OR RELIEF VALVE OUTLETS: Number 1 Size 2" Location Top of tank

9. NOZZLES:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
	<u>1</u>	<u>15</u>					<u>Head of tank</u>

10. INSPECTION MANHOLES, NO. 1 Size 15 Location Head of tank

OPENINGS: Handholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 Threaded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

11. SUPPORTS: Skirt \_\_\_\_\_ Lugs \_\_\_\_\_ Legs \_\_\_\_\_ Other Saddle Plates Attached Welded to tank

12. REMARKS: Vessel fabricated under 1962 Code W-XR for non-corrosive service (CO2)  
Manway Door: AlSiCl: 18" dia. x 1-1/2" thick secured with 4 - 1" Eye or toggle bolts and nuts.  
Additional openings in tank: 6 - 2", 3 - 3", 3 - 4", 1 - 6".

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.P.G., Etc.—State Contents.)  
 \* If post-weld heat-treated.  
 † 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 Unfired Pressure Vessels.

Date Jan 1965 19 65 Signed ACF Industries, Incorporated by C. E. Snyder  
(Manufacturer)  
 Certificate of Authorization Expires No. 677 expires Dec. 31, 1967

### CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY American Car and Foundry Division, Milton, Pennsylvania

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Pennsylvania and employed by Hartford Steam Boiler Insp. & Ins. Co. Hartford, Connecticut have inspected the pressure vessel described in the manufacturer's data report on HIN 19 65 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 Jan 1965 19 65  
J. H. Parker Inspectors Signature Commission NB 1746  
Not a Board or State and No.