

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

Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only

1. Manufactured by MASTER TANK & WELDING DALLAS, TEXAS  
(Name and address of Manufacturer)

2. Manufactured for ARMOUR AGRICULTURAL CHEMICAL COMPANY CHICAGO, ILLINOIS  
(Name and address of Purchaser)

3. Type Horiz. Vessel No. (96017) (Mfrs. Serial) (State & State No.) Natl. Bd. No. 3672 Yr. Built 1969  
(Horiz. or Vert.)

4. SHELL: Mat. SA-455A T.S. 75,000 Nom. Thk. 50 In. Corr. Allow. 0 In. Diam. 3 Ft. 10 In. Length 23 Ft. 10 1/2 In.  
(Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.)

5. SEAMS: Long Dbl. Butt Weld H.T. Yes X.R. Comp. Sectioned NO Efficiency 100 %  
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes/No)

6. HEADS: (a) Material SA-455-B T.S. 75,000 (b) Material SA-455-B T.S. 75,000  
(Yes/No) (Spot or Complete) (Yes/No)

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) End	.500			2:1				CONCAVE
(b) End	.500			2:1				CONCAVE

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

7. Constructed for max. allowable working press. 302 psi. at max. temp. 100 °F. Min. temp. (when less than -20°) \_\_\_\_\_ °F. Hydrostatic Test Press 458 psi.  
Test Press

8. SAFETY OR RELIEF VALVE OUTLETS: Number 1 Size 1 1/4" Location Shell

9. NOZZLES:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Drain	1	1 1/4"	H. Cplg.	SA-105-II			Welded
Liquid Fill	1	1 1/4"	H. Cplg.	SA-105-II			Welded
85% FLL Gage	1	1 1/4"	F. Cplg.	SA-105-II			Welded
Gas Outlet	1	1 1/4"	H. Cplg.	SA-105-II			Welded
Press. Equalized	1	1 1/4"	H. Cplg.	SA-105-II			Welded

10. INSPECTION MANHOLES, No. 1 Size 18" Location On Head  
 OPENINGS: Handholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 Threaded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

11. SUPPORTS: Skirt No Lugs \_\_\_\_\_ Legs \_\_\_\_\_ Other \_\_\_\_\_ Feet \_\_\_\_\_ Attached Welded to Shell  
(Yes or No) (Number) (Number) (Describe) (Where & How)

12. REMARKS: S/O 8008 Dwg. # R-2145 2000 W. G. Cap. NH 3 Storage Tank

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.P.G., Etc.—State Contents.  
 \* If postweld 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 2/7/69 Signed MASTER TANK & WELDING  
(Manufacturer)

Certificate of Authorization Expires 12/31/70

### CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY MASTER TANK & WELDING at DALLAS, TEXAS

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of TEXAS and employed by HARTFORD STEAM BOILER INSP & INS of HARTFORD, CONN. have inspected the pressure vessel described in this manufacturer's data report on 2/7/69 1969 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 2/7/69 1969 N.B. # 3072  
A. J. Dutton Commissions A. J. Dutton - Tex 13  
Inspector's Signature (Natl Board or State and No.)