

# BRIGHTON CORPORATION

## MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS

Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only

BRIGHTON CORPORATION, 11861 MOSTELLER ROAD, CINCINNATI, OHIO 45241

1. Manufactured by \_\_\_\_\_ (Name and address of Manufacturer)

2. Manufactured for **QUAKER CHEMICAL CORPORATION, CONSHOHOCKEN, PENNSYLVANIA** (Name and address of Purchaser)

3. Type **VERT.** Vessel No. **A-3701** (Mfrs. Serial) (State & State No.) Nat. Bd. No. **1873** Yr. Built **1967**

4. SHELL: Matl. **SA240 T316** Nom. Thk. **1/4** Corr. In. Allow. **0** In. Diam. **3** Ft. **0** In. Length **2** Ft. **9** In.

5. SEAMS: Long **D.B.W.** H.T. **NO** X.R. **SPOT** Sectioned **NO** Efficiency **85** %  
 (Welded, Dbl. Single Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)  
 Girth **1-DBW 1-SBW** H.T. **NO** X.R. **SPOT** Sectioned **NO** No. of Courses **1**

If riveted or brazed describe seams fully under remarks

6. HEADS: (a) Material **SA240 T316** T.S. **75,000** (b) Material \_\_\_\_\_ T.S. \_\_\_\_\_

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) <b>TOP, BOTT</b>	<b>.344" MIN</b>	<b>36"</b>	<b>2-1/4"</b>					<b>BOTH</b>

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

7. Constructed for max. **FV & 150** allowable working pressure \_\_\_\_\_ psi at max temp. **400** Min. temp. (when less than -20°) \_\_\_\_\_ °F. Hydrostatic Test Press. ~~XXXXXX~~ **26.7** psi

8. SAFETY OR RELIEF VALVE OUTLETS: Number \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

9. NOZZLES:

Purpose (Inlet, Outlet, Drain)	Number	Dim. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
<b>INLET</b>	<b>1</b>	<b>1-1/2"</b>	<b>FLG'd</b>	<b>T 316</b>	<b>SCH 40</b>	<b>-</b>	<b>WELDED</b>
<b>OUTLET</b>	<b>1</b>	<b>1-1/2"</b>	<b>FLG'D</b>	<b>T 316</b>	<b>SCH 40</b>	<b>-</b>	<b>WELDED</b>

10. INSPECTION Manholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 OPENINGS: Handholes, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_  
 Threaded, No. \_\_\_\_\_ Size \_\_\_\_\_ Location \_\_\_\_\_

11. SUPPORTS: Skirt **NO** Lugs \_\_\_\_\_ (Number) Legs **4** (Number) Other \_\_\_\_\_ Attached **B.H. WELDED** (Where & How)

12. REMARKS: **175 GALLON RECEIVER FOR PILOT PLANT**

(Brief description of purpose of the vessel as Air Tank, Water Tank, I.P.O., Etc. — State Contents.)  
 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 Unfired Pressure Vessels.

Date **11-6** 19 **67** Signed **BRIGHTON CORPORATION** (Manufacturer) By **Don Wyatt** **DON WYATT**

Certificate of Authorization Expires **DECEMBER 31, 1970**

**CERTIFICATE OF SHOP INSPECTION**

VESEL MADE BY **BRIGHTON CORPORATION** at **CINCINNATI, OHIO**

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 the Mutual Boiler and Machinery Insurance Company of Waltham, Mass., have inspected the pressure vessel described in this manufacturer's data report on \_\_\_\_\_ 19\_\_\_\_\_, 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 **11-8-1967** **C. S. Lucas** Inspectors Signature **N. B. 4565-OHIO #1280 PA. WC902** Commissions Nat'l Board or State and No.