BRIGHTON CORPORATION

MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS As Required by the Provisions of the A.S.M.E. Code Rules

ţ	Manufactured by BRIGHTON CORPORATION, 11861 MOSTELLER ROAD, CINCINNATI, OHIO 45241
2	2 Manufactured for QUAKER CHEMICAL CORPORATION CONSHOHOCKEN, PENNSYLVANIA (Name and address of Furchaser)
å	Name and address of Furchaser: Type VERT. Kind JKTD TANK Seel No. (A-3698) (-) Nat'l Bd. No. 1876 Vr. Built. 196 (Horiz or Vett.) (Tank Jacketed, Brut Eych.) (Mirs Serial) (State & State No.)
Ite	tems 4-9 incl. to be completed for single wall vessels (such as air tanks), jackets of jacketed vessels, or shells of heat exchangers
4.	Material SA240 T304L TS 70,000 Nominal Thickness .093 in Allowance 0 in Diam 3 ft 7 in Length 2 tt 11
5.	SEAMS Long HT XR Sectioned Efficiency C If riveted describ
ŧ;	Girth HT XR Sectioned No of Courses form
	Girth HT XR Sectioned No of Courses form HEADS (a) Material SA240 T304L Top. Location ends 1000 Top. bottom ends 1000 Top. bottom ends 1000 Top. 1000 Top. bottom ends 1000 Top. 1000 To
77	Chescibe of Atlach Sketch Chescibe of Atlach Sketch
8.	JACKET CLOSURE: DIMPLE JACKET PROOF-TESTED AND APPROVED FOR ASME CODE (Nominal)
9.	158 700 Hydroxian 1
******	ems 10 and 11 to be completed for tube sections.
10	Tube Sheers: Stationary Material Diarn in Thickness in Attachment (Welded, Bolted) Floating 'Interial (Kind & Spec. No.) Subject to Pressure) (Welded, Bolted) (Kind & Spec. No.)
1.3	·
	Tones: Material O.D in Thickness or gage Number. Type (Kind & Spec No.)
lten	ems 12-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.
12.	Shell Material SA240 T316Lrs 70,000 Nominal Thickness 1/4 in Allowance 0 in Diam 3 ft 6 in Length ft 1
3	SEAMS: Long D.B.W. H.T NO X.R SPOT Sectioned NO Efficiency 85 % If riveted describe seams fully on re- (Welded, Db., Single Lap, Butt) (Yes or No; (Spot or Complete) (Yes or No) Girth D.B.W. H.T NO X.R SPOT Sectioned NO No of Cours 5 1
4.	Heads (a) Material SA240 TS /0,000 (b) Material TS
	Location T316L Crown Knuckle Ethiptical Conical Hemspherical Sale to Pressure (a) Top, bottom, XXX . 406 MIN 42 3 3 Radius Flat Diameter (Convex or Concave BOTH)
	(c) Floating If removable, bolts used (a) SA-105 GR 1, 60,000, 7/8" dia. (40)
	(Material, Spec. No., T.S., Size, Number). (C) (C) (Describe of Attach Sketch)
5.	Constructed for max. allowable working press? FV & 150 psi at max temp 400 "F less than 20") "F. Less than 267 psi
tem	ms below to be completed for all vessels where applicable
6. 7	Safety Valve Outlets Number Size Location. Nozzles:
•	Corpose (Inlet: Outlet, Drain: Number Ulam or Size of Size (Inc.) Reinforcement How
	INLETS 3 3/4" FLG'D T316L SCH 40 — WELDED PAD T316L 150# — WELDED
8	Inspection Manhole, No. 7 Size Location SCH 40 - WELDED
	Threaded No Size Location
v O	Supposes Skirt NO Logs 4 Legs Other Attached U.SWELL Name 300 GALLON DIMPLE JACKETED. AGITATED REACTOR FOR BILOT DIAMER
	DISCHARGE REACTOR FOR PILOT PLANT
	(Brief description of grappose of the yessel, as Air Tank, After Cooler, Jacketed Cooler, etc. State contents of each part). (Over
	「Lind Christotring) of extring previours with inclinative emperature when applicable (本部観客 むらい 新ee まりがる

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QUINCE CHENIONS CORPORATION, COURNOISDAM, DEE FULVENIN We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this unfired pressure vessel conform to the ASME Code for Unfired Pressure Vessels. 1967 Signed BRIGHTON CORPORATION Certificate of Authorization Expires DECEMBER 31, 1970 STRUCTS CERTIFICATE OF SHOP INSPECTION **BRIGHTON CORPORATION** VESSEL MADE BY.... 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 MUTUAL BOILER & MACH INSUR CO. of WALTHAM, MASSACHUSETTS have inspected the pressure vessel described in this manufacturer's , and state that to the best of my knowledge and belief, the manufac-19... turer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel 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. Light 7

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Nat'l Board or State and N CERTIFICATE OF FIELD ASSEMBLY INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or and employed by____ have compared the statements in this manufacturer's data report with the described pressure vessel and state that parts referred to as data items__ not included in the certificate of shop inspection have been inspected by me, and that to the best of my knowledge and belief the manufacturer has constructed and assembled this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code. The described vessel was inspected and subjected to a hydrostatic test of 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 Commissions Inspectors Signature

Nat'l Board or State and No.