

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 Rules, Section VIII, Division I

1. Manufactured by Vulcan Manufacturing Company Cincinnati, Ohio 45246
(Name and address of Manufacturer)
2. Manufactured for Hercules Incorporated, Wilmington, NC
(Name and address of Purchaser)
3. Type Vert. Vessel No. (12272) (State & State No.) Natl. Bd. No. 3246 Yr. Buil. 1974
(Horis. or Vert.) (Mfrs. Serial) (Fig. or F.B. & Spec. Min. T.S.)
4. SHELL: Matl. TP316 SA240 S. 75000 Nom. 3/8 Corr. 0 In. Diam. 4 Ft. 0 In. Length 16 Ft. 9 In.
(Kind and Spec. No.) (Thk. In. Allow) (In. Diam. In. Length)
5. SEAMS: Long Dbl. Butt H.T. NO R.T. Spot Sectioned NO Efficiency 85 %
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)
Girth Dbl. Butt H.T. NO R.T. Spot Sectioned NO No. of Courses 4
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)
If riveted or brazed describe seams fully under remarks.
6. HEADS: (a) Material TP316 SA240 T.S. 75000 (b) Material TP316 SA240 T.S. 75000
(Top, bottom, ends) Thickness 3/8" Crown Radius 48" Knuckle Radius 3" Elliptical Ratio --- Conical Apex Angle --- Hemispherical Radius --- Flat Diameter --- Side to Pressure (Convex or Concave) Concave
(a) Top & Btm 3/8" 48" 3" --- --- --- --- ---
(b) (TOP) STL SA193-B7, 125000, 7/8", 44 Btm Head Welded
If removable, bolts used (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or Attach Sketch)
7. Constructed for max. allowable working press. 2 FV-60 psi at max. temp. 650 °F. Min. temp. (when less than -20°) --- °F. Hydrostatic Test Press 90 psi. Horiz. 90 psi.
8. SAFETY OR RELIEF VALVE OUTLETS: Number Unknown, should be field installed. Size --- Location ---
9. NOZZLES: Purpose (Inlet, Outlet, Drain) Number 1 each Diam. or Size 24", 14", 6" Type 150# LJ Material 316 SA240 Thickness 1/4" Reinforcement Material 316 SA240 How Attached Welded
4 (3) 1" (1) 1-1/2" 150# LJ 316 SA403 SCH 80 --- Welded
10. INSPECTION Manholes, No. --- Size --- Location ---
OPENINGS: ~~XXXXXX~~ No. 2 Size 6" Location Sightglasses in Shell
Threaded, No. --- Size --- Location ---
11. SUPPORTS: Skirt NO Lugs 4 Legs --- Other --- Attached Shell Welded
(Yes or No) (Number) (Number) (Describe) (Where & How)
12. REMARKS: This is a Reactor Column with 6 Trays. Contents unknown, restrictions of UW-2 not applicable.

Hercules P.O. No. 336-026-71156-10-000-FCO

Equip. No. A-7100-2A 75 Sq. Ft. N.B. SO 1334 E-30637 RFM

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.P.G., 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 Pressure Vessels, Section VIII, Division I.

Date 3/27 19 74 Signed Vulcan Manufacturing Company By L. D. Pryse
(Manufacturer)

Certificate of Authorization Expires 12/31/75

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY Vulcan Manufacturing Company 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 or Province Ohio and employed by Hartford Steam Boiler Inspection & Insurance Co. of Hartford, Connecticut have inspected the pressure vessel described in this manufacturer's data report on 3-29-74 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 3-29-74 19 ---
Lowell E. Burton Commissions NB 7100
Inspector's Signature Nat'l Board, State, or Province and No.