

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

As required by the Provisions of the ASME Code Rules, 1958-1962

NE

1. Manufactured by RYAN INDUSTRIES, INC. CLEVELAND, OHIO.
 2. Manufactured for STOCK AIR SYSTEMS & CHEMICALS CO., ALLISON, PA.
 3. Type VERTICAL and JACKETED Vessel No. 1514 (Mfrs. Serial) (Name and address of Purchaser)
 (Horizontal or Vertical) (Task Jacketed Heat Exch) (Mfrs. Serial) (Name and address of Purchaser)
 (Nominal) (In. Allowance) (In. Diam.) (Ft.) (In. Length) (Ft.) (In.)
 Yr. Built 1962

699

Items 4-9 incl. to be completed for single wall vessels (such as air tanks), jackets of jacketed vessels, or shells of heat exchangers.

4. SHELL: Material T.S. (Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.)
 Nominal Thickness 75,000 In. Allowance 1/16 Corrosion Allowance 3 In. Diam. 3 Ft. In. Length 6 Ft. 11 In. 1/8
 5. SEAMS: Long DBL. BUTT WELD (Welded, Dbl., Single, Lap, Butt) NO (Yes or No) COMPLETE (Spot or Complete) NO (Yes or No) Efficiency 90 %
 Girth DBL. BUTT WELD NO COMPLETE NO No. of Courses 1
 6. HEADS: (a) Material T.S. (b) Material T.S.
 Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Pressure
 (a) Top, bottom, ends 212 MIN. ELLIP. 2:1 RATIO CONCAVE
 (b) Channel
 (c) Floating
 If removable, bolts used (a) (Material, Spec. No., T.S., Size, Number) (b) (c) Other fastening (Describe or Attach Sketch)
 7. STAY BOLTS: (Material) DBL. BUTT WELD If hollow (Size of Hole) Attachment COMPLETE Pitch NO X NO Diam. NO (Nominal)
 8. JACKET CLOSURE: Describe as gage & weld bar, etc. If bar give dimensions if bolted, describe or sketch.
 9. Constructed for max. allowable working press. 200 psi. at max. temp. +100 °F. Min. temp. (when less than -20°) -320 °F. Hydrostatic } Test 327 psi.
 Pneumatic or }
 Combination } Press.

If riveted describe means fully on reverse side of form

Items 10 and 11 to be completed for tube sections.

10. TUBE SHEETS: Stationary. Material SA-240 (Kind & Spec. No.) Diam. 3 In. Thickness 1/16 In. Attachment Welded, Bolted
 Floating. Material SA-240 (Kind & Spec. No.) Diam. 3 In. Thickness 1/16 In. Attachment Welded, Bolted
 11. TUBES: Material SA-240 O.D. 3 In. Thickness 1/16 In. Inches or Gage Number 11 Type U (Straight or U)

Items 12-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

12. SHELL: Material SA-240 (Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.)
 Nominal Thickness 1/16 Corrosion Allowance 3 In. Diam. 3 Ft. In. Length 6 Ft. 11 In. 1/8
 13. SEAMS: Long DBL. BUTT WELD (Welded, Dbl., Single, Lap, Butt) NO (Yes or No) COMPLETE (Spot or Complete) NO (Yes or No) Efficiency 90 %
 Girth DBL. BUTT WELD NO COMPLETE NO No. of Courses 1
 14. HEADS: (a) Material SA-240 (b) Material T.S. (c) Material T.S.
 Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Pressure
 (a) Top, bottom, ends 212 MIN. ELLIP. 2:1 RATIO CONCAVE
 (b) Channel
 (c) Floating
 If removable, bolts used (a) (Material, Spec. No., T.S., Size, Number) (b) (c) Other fastening (Describe or Attach Sketch)
 15. Constructed for max. allowable working press. 200 psi. at max. temp. +100 °F. Min. temp. (when less than -20°) -320 °F. Hydrostatic } Test 327 psi.
 Pneumatic or }
 Combination } Press.

If riveted describe means fully on reverse side of form

Items below to be completed for all vessels where applicable.

16. SAFETY VALVE OUTLETS: Number 3 Size 3/4" Location TOP HEAD
 17. NOZZLES:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
	3	3/4"	SA-240	ROD DRILLED		.385 I.D.	WELDED
	3	1-1/8"	SA-240	ROD DRILLED		.885 I.D.	WELDED
	1	1-1/2"	SA-240	ROD DRILLED		1.135 I.D.	WELDED

 18. INSPECTION Manholes, No. 3 Size 36" Location TOP HEAD
 OPENINGS: Handholes, No. 3 Size 36" Location TOP HEAD
 Threaded, No. 3 Size 36" Location TOP HEAD
 19. SUPPORTS: Skirt (Yes or No) NO Lugs (Number) 3 Legs 3 Other 3 BRACE RODS (Describe) WELDED TO TOP HEAD
 20. REMARKS: 36" I.D. LOX VESSEL INNER VESSEL ONLY RODS WELDED TO TOP HEAD

(Brief description of purpose of the vessel, as Air Tank, After Cooler, Jacketed Cooker, etc. State contents of each part. (Over)
 List other internal or external pressures with coincident temperature when applicable.)

406

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this unfired pressure vessel conform to the ASME Code for Unfired Pressure Vessels.

Date NOV 19 1962 19____ Signed RYAN INDUSTRIES, INC. By *R. J. Meacham*
(Manufacturer)

Certificate of Authorization Expires # 956 12/31/64

CERTIFICATE OF SHOP INSPECTION

Inspection Agency's Serial No. HSB # 1857

VESSEL MADE BY RYAN INDUSTRIES, INC. at CLEVELAND, OHIO

I, the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Unfired Pressure Vessels in THE STATE OF NATIONAL and employed by HARTFORD STEAM BOILER INSPECTION BOARD of HARTFORD CONN. & INSURANCE CO.
inspected internally and externally, the vessel described in this report on NOV 19 1962, and certify that the statements made in this report are correct corresponding with mill test reports of materials furnished by the builders, and measurements made of the vessel and that this vessel is constructed in accordance with the ASME Code for Unfired Pressure vessels.

Date NOV 19 1962 19____

J. B. Anderson
Inspector's Signature

OHIO # 1186

PENNA # WC 982

Commissions N.B. # 3342
State or Nat'l Bd. & Number

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Unfired Pressure Vessels in THE STATE OF _____ and employed by _____ of _____, have compared the statements in this manufacturers' data report with the completed vessel, and certify that parts referred to as data items _____ were completed in the field in accordance with the requirements of the ASME Code for Unfired Pressure Vessels. The completed vessel was inspected and subjected to a hydrostatic test of _____ psi.

Date _____ 19____

Inspector's Signature

Commissions _____
State or Nat'l Bd. & Number