

FORM U-1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS As required by the Provisions of the ASME Code Rules W. O. S-3015-A

1. Manufactured by Industrial Fabricating Company 3159 South Sheridan Road Tulsa, Oklahoma
(Name and address of Manufacturer)

2. Manufactured for Dresser Engineering Company Tulsa, Oklahoma
(Name and address of Purchaser)

3. Type Horiz Kind Heat Exch Vessel No. 3015-1 (Mfrs. Serial) (State & State No.) Texas Natl. Bd. No. 1966
(Horiz. or Vert.) (Tank, Jacketed, Heat Exch.)

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 SA-516Gr70 T.S. 70,000 Nominal Thickness 1 1/4 In. Corrosion Allowance 1/16 In. Diam. 2 Ft. 9 1/2 In. Length 49 Ft. 11 In.
(Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.)

If riveted describe seams fully on reverse side of form.

Single Butt

5. SEAMS: Long Dbl. Butt H.T. * X.R. Complete Sectioned No Efficiency 100 %
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)
Intergal Back Up & Dbl. Butt H.T. * X.R. Complete Sectioned No No. of Courses 2**
Girth

6. HEADS (a) Material T.S. (b) Material T.S.
(Top, bottom, ends) Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Pressure (Convex or Concave)

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

7. STAYBOLTS: (Material) If hollow (Size of Hole) Attachment (Threaded, Welded) Pitch (Horiz.) X (Vert.) Diam. (Nominal)

8. JACKET CLOSURE: (Describe as ogee & weld, bar, etc. If bar, give dimensions, if bolted, describe or sketch)

9. Constructed for max. allowable working press. 1150 psi at max. temp. 160 & -32IT °F. Min. temp. (when less than -20°) Hydrostatic Test Press 1722 psi.
Pneumatic or Combination

Items 10 and 11 to be completed for tube sections.

10. TUBE SHEETS: Stationary. Material SA-105-II Diam. 31 In. Thickness 5-5/8 In. Attachment Welded
(Kind & Spec. No.) (Subject to Pressure) (Welded, Bolted)

Material SA-350-LF2 Diam. 31 In. Thickness 5-5/8 In. Attachment Welded
(Kind & Spec. No.)

11. TUBES: Material SA-214 O.D. 3/4 In. Thickness 13 AVG. Welded Stl. 863 Type Straight
(Kind & Spec. No.) (Inches or Gage Number) (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-516Gr70 T.S. 70,000 Nominal Thickness 2-1/8 In. Corrosion Allowance 1/16 In. Diam. 2 Ft. 11 1/4 In. Length 3 Ft. 3 1/4 In.
(Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.)

Front & Back Chans

13. SEAMS: Long Dbl. Butt H.T. Yes X.R. Complete Sectioned No Efficiency 100 %
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)
Intergal Single Butt with Girth H.T. Yes X.R. Complete Sectioned No No. of courses 1 (Each)

Single Butt up &

14. HEADS (a) Material T.S. (b) Material See b Below (c) Material See c Below
(a) Top, bottom, ends Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Pressure (Convex or Concave)

(b) Channel Front 7-15/16 Front Chan Cover SA-105-II-70,000 44-3/4 Flat
(c) Back Chan. 7-15/16 Back Chan Cover SA-350LF2 70,000 44-3/4 Flat

If removable, bolts used (a) (Material, Spec. No., T.S., Size, Number) (b) Stl; SA-193-B7; 115,000; 3 1/2; 32

(c) Stl; SA-193-B7; 115,000; 3 1/2; 32 Other fastening (Describe or Attach Sketch)

15. Constructed for max. allowable working press. 2130 psi at max. temp. 150 & 22IT per Customer Min. temp. (when less than -20°) Hydrostatic Test Press 3195 psi.
Pneumatic or Combination

Items below to be completed for all vessels where applicable.

16. SAFETY VALVE OUTLETS: Number 1 Size 1/2 Location Top

17. NOZZLES

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Hot	1	8"	600#LWN	SA-105-II		SA-516Gr70	Welded
Cold	1	8"	900#LWN	SA-350LF2		SA-516Gr70	Welded
Cold	1	10"	600#LWN	SA-350-LF2		SA-201-B	Welded
Hot	1	10"	600#LWN	SA-105-II		SA-201-B	Welded
Hot	1	2"	1500#LWN	SA-105-II		Weld	Welded

Items 18 through 20 continued on back)

Welded heat-treated.

List under remarks other internal or external pressures with coincident temperature when applicable.

SA-201-B Weld Pads Are SA-300 Cl

(Over)