

114164

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by AVINS FABRICATING CO, INC. 258 SAWYER AVE., TONAWANDA, NY, 14150
(Name and address of Manufacturer)

2. Manufactured for PETROCON ENGINEERING 3105 EXECUTIVE BLVD, BEAUMONT, TEXAS, 77705
(Name and address of Purchaser)

3. Location of installation OLIN CHEMICALS 100 McKEE RD, ROCHESTER, NY, 14611
(Name and address)

4. Type : VERTICAL TANK 224
(Horiz., vert., or sphere) (Tank, separator, jkt. vessel, heat exch., etc.) (Mfg's. serial No.)

OL4935-01 REV. B 217 1998
(CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)

5. ASME Code, Section VIII, Div. 1 1995, 1996 ADD. - -
Edition and Addenda (date) Code Case No. Special Service per UG-120(d)

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multi-chamber vessels.

6. Shell (a) No. of course(s) : 1 (b) Overall length (ft & in.) : 3FT 9IN.

Course(s)			Material		Thickness		Long. joint (Cat. A)			Circum. joint (Cat. A, B & C)			Heat Treatment	
No.	Diam. in.	Length (ft & in.)	Spec./Grade or Type		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	36.0	3' 9"	SA240-316L		0.375	0.0625	1	NONE	0.70	-	-	-	-	-

7. Heads : (a) SA240-316L (b) -
(Mat'l Spec. No., Grade or Type) H.T. Time & Temp. (Mat'l Spec. No., Grade or Type) H.T. Time & Temp.

	Location (Top Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	TOP	0.375	0.0625	36 IN.	3 IN.	-	-	-	-	YES	YES	1	-	-
(b)	BOTTOM	0.375	0.0625	36 IN.	3 IN.	-	-	-	-	YES	YES	1	-	-

If removable, bolts used (describe other fastening) -
(Mat'l Spec. No., Grade, size, No.)

8. Type of jacket --- Jacket closure ---
(Describe as ogee & weld, bar, etc.)

if bar, give dimensions --- if bolted, describe or sketch.

9. MAWP 100 15 psi at max. temp. 450 - °F Min. design metal temp. -20 °F at 100/FV psi.
(internal) (external) (internal) (external)

10. Impact test NO, IMPACT TEST EXEMPT PER UHA-51d
(Indicate yes or no and the component(s) impact tested)

11. Hydro., pneu., or comb. test press. HYDRO. 165 Proof test -

Items 12 and 13 to be completed for tube sections.

12. Tubesheet : Stationary (Mat'l Spec. No.) - - - - -
Floating (Mat'l Spec. No.) - - - - - -
Attachment (welded or bolted) -

13. Tubes : Mat'l Spec. No., Grade or Type O.D., in. Nom. thk., in. or gauge Number Type (Straight or U)

Items 14-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell (a) No. of course(s) : 1 (b) Overall length (ft & in.) : -

Course(s)			Material		Thickness		Long. joint (Cat. A)			Circum. joint (Cat. A, B & C)			Heat Treatment	
No.	Diam. in.	Length (ft & in.)	Spec./Grade or Type		Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	-	-	-		-	-	-	-	-	-	-	-	-	-

15. Heads : (a) - (b) -
(Mat'l Spec. No., Grade or Type) H.T. Time & Temp. (Mat'l Spec. No., Grade or Type) H.T. Time & Temp.

	Location (Top Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(b)	-	-	-	-	-	-	-	-	-	-	-	-	-	-

If removable, bolts used (describe other fastening) -
(Mat'l Spec. No., Grade, size, No.)

16. MAWP _____ psi at max. temp. _____ °F Min. design metal temp. _____ °F at _____ psi.
(internal) (external) (internal) (external)

17. Impact test _____

(Indicate yes or no and the component(s) impact tested)

18. Hydro., pneu., or comb. test press. _____

Proof test _____

19. Nozzles, inspection, and safety valve openings :

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How attached		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
A,B,C,F,G	4	2 IN.	Cl 150	SA312-316L	SA182-316L	0.343	.0625	-	WLD	WLD	-
D1,D2	2	2 IN.	Cl 150	SA312-316L	SA182-316L	0.218	.0625	-	WLD	WLD	-
E1,E2	2	8	Cl 150	SA312-316L	SA182-316L	0.322	0.0625	-	WLD	WLD	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

20. Supports : Skirt _____ Lugs _____ Legs YES Others _____ Attached _____ 4-WELDED TO SIDE
(Yes or no) (No.) (No.) (Describe) (Where and how)

21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report : (List the name of part, item number, mfg's. name and identifying number)

22. Remarks : CUSTOMER/OWNER RESPONSIBLE FOR INSTALLING PROPER PRESSURE RELIEF

CERTIFICATE OF SHOP COMPLIANCE

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 1.

U Certificate of Authorization No. 25593 Expires MAY 16, 20 00

Date 6-18-98 Name

AVINS FABRICATING CO, INC.

(Manufacturer)

Signed

(Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of NEW YORK and employed by HSB1 & I CO. of CT have inspected the pressure vessel described in this Manufacturer's Data Report on 6-18-98, 19_____, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. 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 6-18-98

Signed

(Authorized Inspector)

Commissions

NB1103ANY5028

(Nat'l. Board Incl. endorsement, State, Province, and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME Code, Section VIII, Division 1.

U certificate of Authorization No. _____

Expires _____

Date _____ Name _____

Signed _____

(Assembler)

(Representative)

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 the State or Province of _____ and employed by _____ of _____ 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 to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of _____ psi. 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 _____ Signed _____

(Authorized Inspector)

Commissions _____

(Nat'l. Board Incl. endorsement, State, Province, and No.)