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c. 4011

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by ALLOY FABRICATORS, INC., P. O. BOX 650, TRENTON, GA 30752
(Name and address of manufacturer)

Manufactured for SOFIX CORP., 101 NORTHGATE COMMERCIAL CENTER, CHATTANOOGA, TN 37415
(Name and address of purchaser)

3. Location of installation SOFIX CORP., 2800 RIVERPORT ROAD, CHATTANOOGA, TN 37406
(Name and address)

4. Type VERTICAL 1-136 N/A 1-136 1263 1991
(Horiz. or vert., tank) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1989
Year

to 1989 N/A N/A
Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA-240-T304 .250 NONE 3' 3 1/2" 10' 4"
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: SVBW NONE 70% N/A N/A SVBW NONE 1
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Matl. SA-240-T304 (b) Matl. SA-240-T304
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	TOP	.250	NONE	--	--	F & D	--	--	--	CONCAVE
(b)	BOTTOM	.250	NONE	--	--	F & D	--	--	--	CONCAVE

If removable, bolts used (describe other fastenings) N/A
(Matl., Spec. No., Gr., Size, No.)

9. MAWP 33 psi at max. temp. 335 °F
Min. design metal temp. -20 °F at 33 psi. Hydro., pneu., or comb. test pressure 57 psi.

Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
SEE ATTACHED U-4 FORM								

11. Supports: Skirt NO Lugs 0 Legs 4 Other N/A Attached WELDED TO SHELL
(Yes or no) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: IMPACT EXEMPT PER UHA-51
(Name of part, item number, Mfr's. name and identifying stamp)

SAFETY VALVE INSTALLED BY OTHERS

* SEE ADDITIONAL NOTES ON ATTACHED U-4 FORM

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. 7.251 expires 4-28, 19 91.
Date 12-18-91 Co. name ALLOY FABRICATORS, INC. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by ALLOY FABRICATORS, INC. at 102 SO. INDUSTRIAL DR., TRENTON, GA 30752
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 GA and employed by KEMPER NATIONAL INS. COMPANIES, LONG GROVE, ILL.
have inspected the component described in this Manufacturer's Data Report on DEC. 12, 19 91, 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 12-30-91 Signed [Signature] Commissions NB10822 GA00268
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

C4000

Manufactured and certified by ALLOY FABRICATORS, INC., 102 S. INDUSTRIAL DR., TRENTON, GA. 30752
(Name and address of manufacturer)

Manufactured for SOFIX CORP., 101 NORTHGATE COMM. CENTER, CHATTANOOGA, TENNESSEE 37415
(Name and address of purchaser)

3. Location of installation SOFIX CORP., 2800 RIVERPORT ROAD, CHATTANOOGA, TENNESSEE 37406
(Name and address)

4. Type VERTICAL 1-135 -- 1-135 1257 1991
(Horiz. vert. tank, etc.) (Mfg'r. serial No.) (CRN) (Dwg) (Nat'l. Bd. No.) (Year built)

Data Report
Item Number

Remarks

PURPOSE	NO.	DIA. OR SIZE	TYPE	MATERIAL	NOM. THK	REINFORCE MAT'L	HOW ATTACHED	LOCATION
LIQUID IN	N1	3"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
LIQUID IN	N2	1 1/2"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
LIQUID IN	N3	1 1/2"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
VENT	N4	2"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
VAPOR OUT	N5	6"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
RW INLET	N6	1 1/2"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
LIQUID OUT	N7	2"	PLATE FLG	SA479 T304	—	N/A	WELDED	BTM HEAD
POWDER IN	N8	6"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
SAFETY VALVE	N9	6"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
LEVEL	N10	3"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
LIQUID IN	N11	1 1/2"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
LIQUID IN	N12	4"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
TE	N13	1"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	SHELL
SAMPLE	N14	3/4"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	SHELL
SPARE	N15	1 1/2"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
SPARE	N16	2"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
HT GLASS	N17	4"	N#80	SA240 T304	—	SA312 T304	WELDED	TOP HEAD
SIGHT GLASS	N18	4"	SL100 N#80	SA240 T304	—	N/A	WELDED	TOP HEAD
30 PA/PG	N19	2"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
LI	N20	3"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	SHELL
AGITATOR	N21	10"	150# RFSO	SA182 F304	.250	SA312 T304	WELDED	TOP HEAD
4OS INLET	N22	1 1/2"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	BTM HEAD
4OSC OUT	N23	1 1/2"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	BTM HEAD
WS INLET	N24	2"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
WR OUTLET	N25	2"	150# RFSO	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
MANWAY	M1	20"	8350 DOW	SA240 T304	—	SA312 T304	WELDED	TOP HEAD

TOP HEAD IS OF THREE PIECE CONSTRUCTION

TOP HEAD WAS ENTIRELY FABRICATED BY A.F.I.

ALL SEAMS WERE 100% RADIOGRAPHED BY INDUSTRIAL LAB., CHATTANOOGA TENNESSEE

Date 12-9-91

Co. name ALLOY FABRICATORS, INC.
(Manufacturer)

Signed [Signature]
(Representative)

Date 12-9-91

Signed [Signature]
(Authorized Inspector)

Commissions NA10822A GA00268
(Nat'l. Board (incl. endorsements), State, Prov., and No.)

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

[illegible]

19. Supports: Skirt NO Lugs 4 Legs N/A Other N/A Attached WELDED TO SHELL
(Yes or no) (No.) (No.) (Describe) (Where and how)

20. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: IMPACT EXEMPT PER UHA-51. SAFETY VALVE INSTALLED BY OTHERS.

INTERNAL COIL CONSTRUCTED OF 2" SCH 10 SA 312 T304 PIPE. HYDROSTATICALLY TESTED AT 175 PSIG.

HALF PIPE JACKET CONSTRUCTED OF 2" SCH 10 SA312 T304 PIPE. HYDROSTATICALLY TESTED AT 175 PSIG. PIPE JACKET PERMANENTLY ATTACHED TO BTM HEAD.

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. 7,251 expires 4-28- 19 93
Date 12-2-91 Co. name ALLOY FABRICATORS, INC. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by ALLOY FABRICATORS, INC. at 102 S. INDUSTRIAL DR., TRENTON, GA

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 GA and employed by KEMPER NATIONAL INSURANCE COMPANIES

of LONG GROVE, ILLINOIS have inspected the pressure vessel described in this Manufacturer's Data Report on 12-2-91, 19 91, 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 the 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 12-2-91 Signed [Signature] Commissions NB 10822A GT00268
(Authorized Inspector) (Nat'l Board, State, Province and No.)

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. _____ expires _____, 19_____.
Date _____ Co. name _____ Signed _____
(Assembler that certified and constructed field assembly) (By 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 that, 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 _____ Commissions _____
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov., and No.)