

11439205112
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 ALLOY FABRICATORS, INC., 102 S. INDUSTRIAL DR., TRENTON GA
(Name and address of manufacturer)
2. Manufactured for SOFIX CORP., 101 NORTHGATE COMMERCIAL CTR., CHATTANOOGA, TN
(Name and address of purchaser)
3. Location of installation SOFIX CORP., 2800 RIVERPORT RD., CHATTANOOGA, TN
(Name and address)
4. Type VERTICAL 1-141 N/A 1-141 1266 1992
(Horiz. or vert. tank) (Mfr's serial No.) (CRN) (Drawing) (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
1989 N/A N/A
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, or shells of heat exchangers

6. Shell: SA-240-T304 .250 NONE 3' 3 1/2" 8' 5 13/16"
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
Long. (Dbl., Sngl.) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F)
N/A SVBW NONE 1
Time Girth (Dbl., Sngl.) 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	--	--	--	--	--	--	CONCAVE
(b)	BOTTOM	.250	NONE	--	--	--	--	--	--	CONCAVE

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

9. Type of Jacket N/A Proof Test N/A
10. Jacket Closure -- If bar, give dimensions -- If bolted, describe or sketch.
(Describe as ogee & weld, bar, etc.)
11. MAWP 33 psi at max. temp. 335 °F. Min. design metal temp. -20 °F at 33 psi.
Hydro., pneu., or comb. test press. 57 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: N/A
Stationary Matl. (Spec. No., Gr.) Diam. (in.) (Subject to pressure) Nom. Thk. (in.) Corr. Allow. (in.) Attach. (Welded, Bolted)
-- -- -- --
Floating Matl. (Spec. No., Gr.) Diam. (in.) Nom. Thk. (in.) Corr. Allow. (in.) Attach.
-- -- -- --
13. Tubes: -- -- -- --
Matl. (Spec. No., Gr.) O.D. (in.) Nom. Thk. (in. or Gauge) Number Type (Straight or "U")

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: -- -- -- --
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft & in.) Length (Overall) (ft & in.)
15. Seams: -- -- -- --
Long. (Dbl., Sngl.) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F)
-- -- -- --
Time Girth (Dbl., Sngl.) R.T. (Spot, Partial, or Full) No. of Courses
16. Heads: (a) Matl. -- (b) Matl. --
(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)	--	--	--	--	--	--	--	--	--	--
(b)	--	--	--	--	--	--	--	--	--	--

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

17. MAWP -- psi at max. temp. -- °F. Min. design metal temp. -- °F at -- psi.
Hydro., pneu., or comb. test press. -- psi.

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

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

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

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

4. Type VERTICAL 1-138 --- 1-138 1251 1991
(Mount, vert, tank, etc.) (Mfg's. serial No.) (CRN) (Desig) (Nat'l. Ed. No.) (Year built)

Data Report

Item Number 10

Remarks

PURPOSE	NO.	DIA. OR SIZE	TYPE	MATERIAL	NOM. THK	REINFORCE MAT'L	HOW ATTACHED	LOCATION
LIQUID INLET	N1	2"	150# FLG.	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
LIQUID INLET	N2	2"	150# FLG.	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
VAPOR OUTLET	N3	6"	150# FLG.	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
VENT	N4	1 1/2"	150# FLG.	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
30 PA INLET	N5	1 1/2"	150# FLG.	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
LIQUID INLET	N6	2"	150# FLG.	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
SAFETY VALVE	N7	4"	150# FLG.	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
POWDER INLET	N8	8"	150# FLG.	SA182 F304	1/4"	N/A	WELDED	TOP HEAD
LIQUID OUTLET	N9	4"	PLATE FLG.	SA276 T304	1 3/4"	N/A	WELDED	BTM HEAD
SPARE	N10	6"	150# FLG.	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
TE	N11	1"	150# FLG.	SA182 F304	SCH 40	N/A	WELDED	SHELL
SIGHT GLASS	N12	4"	NW 80	T304	--	N/A	WELDED	TOP HEAD
LIGHT GLASS	N13	4"	NW 80	T304	--	N/A	WELDED	TOP HEAD
WR. OUTLET	N14	2"	150# FLG.	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
WS. LET	N15	2"	150# FLG.	SA182 F304	SCH 40	N/A	WELDED	TOP HEAD
4OS INLET	N16	1 1/2"	150# FLG.	SA182 F304	SCH 40	N/A	WELDED	BTM HEAD
4OS INLET	N17	1 1/2"	150# FLG.	SA182 F304	SCH 40	N/A	WELDED	BTM HEAD
AGITATOR	N20	10"	150# FLG.	SA182 F304	1/4"	SA240 T304	WELDED	TOP HEAD
MANWAY	M1	20"	----	T304	--	N/A	WELDED	TOP HEAD

ITEM # 12

BTM HEAD HALF PIPE JACKET CONSTRUCTED OF 2" SCH 10 SA312 T304 PIPE,
HYDROSTATICALLY TESTED AT 76 PSIG.

INTERNAL COIL ASSEMBLY CONSTRUCTED OF 2" SCH 10 SA312 T304 PIPE
HYDROSTATICALLY TESTED AT 146 PSIG.

TOP & BOTTOM HEADS ARE 3 PIECE CONSTRUCTION. HEADS WELDED
BY ALLOY FABRICATORS THEN FORMED BY OUTSIDE SUBCONTRACTOR
HEADS WERE 100% RADIOGRAPHED AFTER FORMING.

te U-20-91 Co. name ALLOY FABRICATORS, INC. Signed John Cox
(Manufacturer) (Representative)

te 11-20-91 Signed James R. McLean Commissions NA10822 GA00268
(Authorized Inspector) [Nat'l. Board (incl. endorsements), State, Prov., and No.]

in accordance with provisions of the National Board Inspection Code

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