

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

(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)

As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by Steel Fab, A Division of Samuel Pressure Vessel Group, Inc., 58 Samuel Way, Lebanon, Virginia, 24266, USA

(Name and address of Manufacturer)

2. Manufactured for AIR PRODUCTS

(Name and address of Purchaser)

3. Location of Installation UNKNOWN

(Name and address)

4. Type Vertical 814826 NONE C105360 Rev.1 814826 2016
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)5. ASME Code, Section VIII, Division 1 2015/ N/A NONE NONE
(Edition and Addenda, if applicable (date)) (Code Case numbers) (Special service per UG-120(d))6. Shell: SA455 .313" NONE 5' (OD) 16' 7.38"
(Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) (Length (overall))

Body Flanges on Shells

No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

7. Seams: TYPE 1 NONE 70% N/A N/A TYPE 2 NONE 65% 3
[Long. (welded, dbl., sngl., lap, butt)] [R.T. (spot or full)] (Eff. %) (H.T. temp) (Time, hr) [Girth. (welded, dbl., sngl., lap, butt)] [R.T. (spot or full)] (Eff. %) (No. of courses)8. Heads: (a) Material SA516-70 (b) Material SA516-70
(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	.294"	NONE	N/A	N/A	2:1	N/A	N/A	N/A	Concave
(b)	BOTTOM	.294"	NONE	N/A	N/A	2:1	N/A	N/A	N/A	Concave

Body Flanges on Heads

No.	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
(a)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A

9. MAWP 150 psi N/A at max. temp. 400 °F N/A
(Internal) (External) (Internal) (External)Min. design metal temp. -20 °F at 150 psi . Hydro, pneu., or comb. test pressure HYDRO at 195 psi .Proof test N/A .

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
INSPECTION	1	12"x16"	300#	SA106-C		1.00"		INHERENT	FIG. UW-16.1(i)		SHELL
UNKNOWN	2	4.00"	CL 150 RFSO	SA106-B	SA105	.237"		INHERENT	FIG. UW-16.1(i)	FIG UW-21	
UNKNOWN	1	2.00"	THREADED FITTING	SA181 CL70		UG-11(a)(1)		INHERENT	FIG. UW-16.2(c)		
DRAIN	1	.750"	THREADED FITTING	SA181 CL70		UG-11(a)(1)		INHERENT	FIG. UW-16.2(c)		HEAD
UNKNOWN	2	.750"	THREADED FITTING	SA181 CL70		UG-11(a)(1)		INHERENT	FIG. UW-16.2(c)		

11. Supports: Skirt YES Lugs 2 Legs 0 Other NAME PLATE Attached HEAD - WELDED
(Yes or no) (Number) (Number) (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:

N/A
(Name of part, item number, Manufacturer's name and identifying stamp)Constructed under the provision of UG-90 (c) (2). No safety device provided per UG-125 (a). UG-20 (f) applies.

CERTIFICATE OF SHOP/FIELD 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 BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 23846 expires November 28, 2018.

Date 05/16/2016 Co. name Steel Fab, A Division of Samuel Pressure Vessel Group, Inc.
(Manufacturer)

Signed

Sharon S. Barkrow
(Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Steel Fab, A Division of Samuel Pressure Vessel Group, Inc. at 58 Samuel Way, Lebanon, Virginia, 24266, USA

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and employed by OneCIS Insurance Company, of Lynn, MA

have inspected the component described in this Manufacturer's Data Report on May 16, 2016, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her 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 05/16/2016

Signed

[Signature]
(Authorized Inspector)

Commissions

12048A, VA921

[National Board (incl. endorsements)]