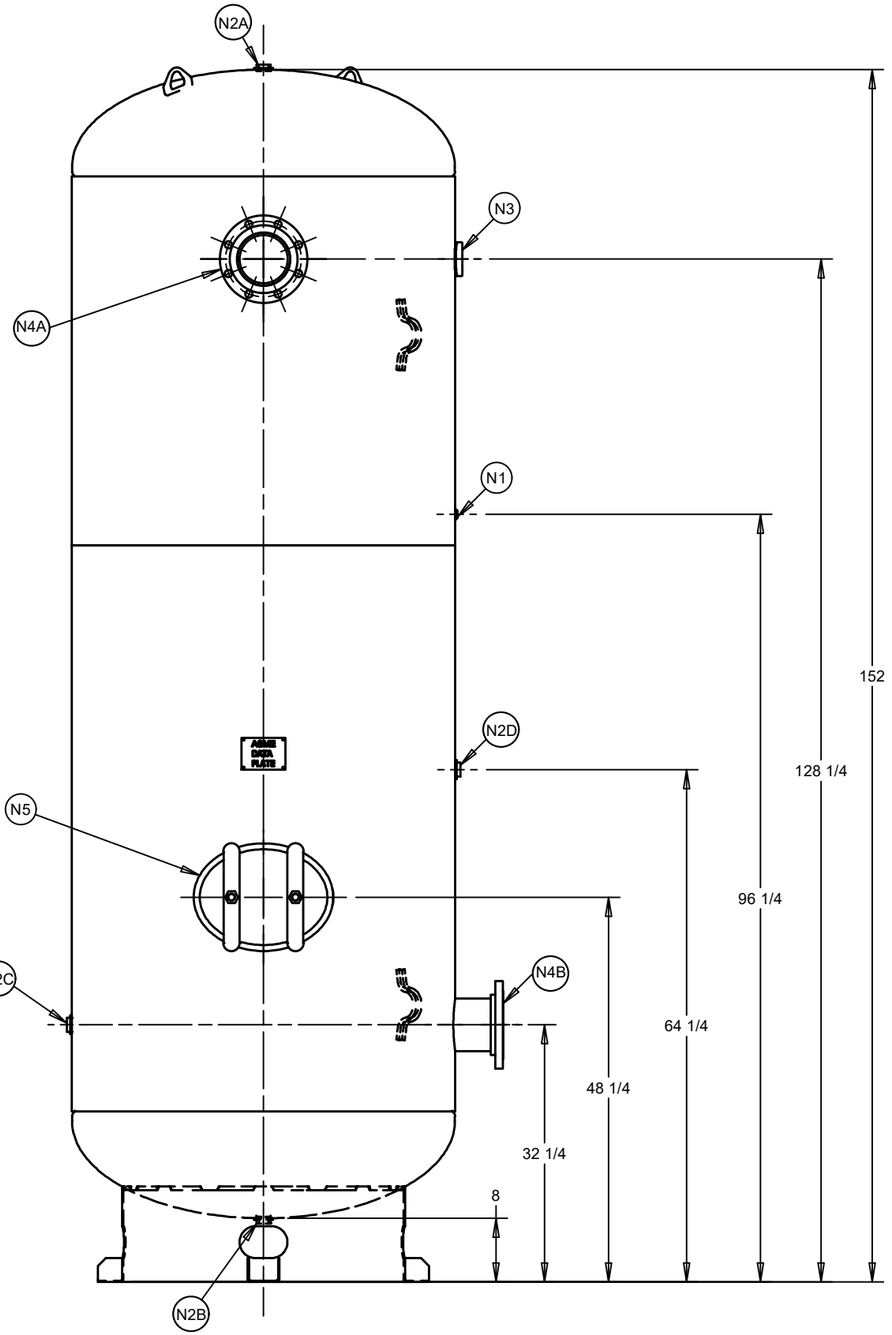
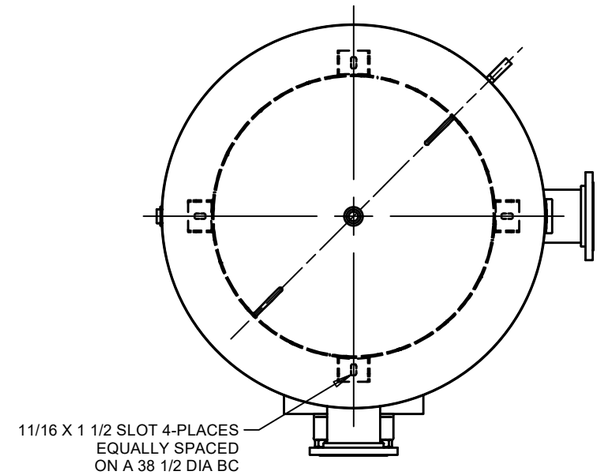
| NOZZLE CHART | | |
|---|---|---|
| NOZZLE ID | NPS SIZE | TYPE |
| N1 | 1/4 | NPT |
| N2 | 1 | NPT |
| N3 | 3 | NPT |
| N4 | 6 | 150# FLG |
| N5 | MANWAY | |




BASE RING THICKNESS IS 0.179"




**TOP VIEW**



INSTRUMENTAIR TANK
V-1935

| DESIGN INFORMATION | |
|---|---|
| SPECIFICATION | VALUE |
| DIAMETER O.D./I.D. | 48 O.D. |
| MAWP | 200 PSI AT 400°F |
| MDMT | -20°F AT 200 PSI |
| CAPACITY | APPROX 1060 GALLONS |
| SHIPPING WEIGHT | 2670 LBS |
| CRN | R2127.5C |

(BUILT IN ACCORDANCE WITH LATEST EDITION OF SECTION VIII DIV 1 ASME CODE)

THIS DRAWING & SPECIFICATIONS ARE PROPERTY OF SPVG AND MAY NOT BE COPIED, REPRODUCED, OR USED IN WHOLE OR PART, AS A BASIS FOR DESIGN MANUFACTURE OR SALE WITHOUT PRIOR PERMISSION FROM SPVG.

| REV | DESCRIPTION | BY | DATE |
|---|---|---|---|
| G27 | ISSUED | | |

TITLE: VERTICAL AIR RECEIVER

SAMUEL 1905 PRESSURE VESSEL GROUP

CUSTOMER: STOCK

TYPE: ASME

| DRAWN | CHECKED | DRAWING NO | REV |
|---|---|---|---|
| KAT 9/12/2016 | DMM 10/10/2016 | C100331 | G27 |

SIZE: B

SHEET 1 OF 1

**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 **Samuel Pressure Vessel Group, 58 Samuel Way, Lebanon, Virginia, 24266, USA**
(Name and address of Manufacturer)

2. Manufactured for **Stock**
(Name and address of Purchaser)

3. Location of Installation **Unknown**
(Name and address)

4. Type **Vertical** (Horizontal or vertical, tank) | **1149340 thru 1149343** (Manufacturer's serial number) | **R2127.5C** (CRN) | **C100331 Rev. 29** (Drawing number) | **1149340-1149343** (National Board number) | **2026** (Year built)

5. ASME Code, Section VIII, Division 1 **2025/ N/A** [Edition and Addenda, if applicable (date)] | **None** (Code Case numbers) | **None** [Special service per UG-120(d)]

6. Shell: **SA455** (Material spec. number, grade) | **.375"** (Nominal thickness) | **None** (Corr. allow.) | **4' 0" (OD)** (Inner diameter) | **9' 9"** [Length (overall)]

| Body Flanges on Shells | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Bolting | | | |
| No. | Type | ID | OD | Flange Thk | Min Hub Thk | Material | How Attached | Location | 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 No. 1** [Long. (welded, dbl., sngl., lap, butt)] | **None** [R.T.(spot or full)] | **70%** (Eff.,%) | **N/A** (H.T. temp) | **N/A** (Time, hr) | **Type No. 2** [Girth. (welded, dbl., sngl., lap, butt)] | **None** [R.T. (spot or full)] | **65%** (Eff., %) | **1** (No. of courses)

8. Heads: (a) **SA516-70** (Material spec. number, grade or type) (H.T. - time and temp.) (b) **SA516-70** (Material spec. number, grade or type) (H.T. - time and 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 | .294" | None | N/A | N/A | 2:1 | N/A | N/A | N/A | | X | S | None | 85% |
| (b) | BOTTOM | .294" | None | N/A | N/A | 2:1 | N/A | N/A | N/A | | X | S | None | 85% |

| Body Flanges on Heads | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Bolting | | | |
| | Location | Type | ID | OD | Flange Thk | Min Hub Thk | Material | How Attached | 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 **200 psi** (Internal) | **N/A** (External) at max. temp. **400 °F** (Internal) | **N/A** (External)

Min. design metal temp. **-20 °F** at **200 psi** . Hydro, pneu., or comb. test pressure **HYDRO. at 260 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" x 16" | 300# | SA106-C | N/A | .750" | N/A | Inherent | FigUW16.1(i) | N/A | Shell |
| Unknown | 2 | 6.00" | RFSO CL150# | SA106-B | SA105 | .280" | | Inherent | FigUW16.1(i) | Fig. UW-21 | |
| Unknown | 1 | 3.00" | Threaded Fitting | SA181 CL70 | | UG-11(a)(1) | | Inherent | FigUW16.2(c) | | |
| Unknown | 3 | 1.00" | Threaded Fitting | SA181 CL70 | | UG-11(a)(1) | | Inherent | FigUW16.2(c) | | |
| Unknown | 1 | .250" | Threaded Fitting | SA181 CL70 | | UG-11(a)(1) | | Inherent | FigUW16.2(c) | | |
| Drain | 1 | 1.00" | Threaded Fitting | SA181 CL70 | N/A | UG-11(a)(1) | N/A | Inherent | FigUW16.2(c) | N/A | Head |

11. Supports: Skirt **Yes** (Yes or no) Lugs **4** (Number) Legs **0** (Number) Other **Name Plate** (Describe) Attached **Heads & Shell - Welded** (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 provisions of UG-90.3 (b). No safety device provided see UG-151. Impact test exempt per UG-20(f) & UCS-66. Drawing# C100331 Rev.20 submitted for Canadian registration.**

Manufactured by **Samuel Pressure Vessel Group, 58 Samuel Way, Lebanon, Virginia, 24266, USA**

Manufacturer's Serial No. **1149340 thru 1149343** CRN **R2127.5C** National Board No. **1149340-1149343**

## 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 **October 9, 2027** .

Date **04/28/2026** Co. name **Samuel Pressure Vessel Group** (Manufacturer) Signed (Representative)

## CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by **Samuel Pressure Vessel Group** 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 Bureau Veritas Inspection and Insurance Company, of Lynn, MA

have inspected the component described in this Manufacturer's Data Report on April 28, 2026 , 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 the Inspector's employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor the Inspector's 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 04/28/2026 Signed (Authorized Inspector) Commissions 17509 (National Board Authorized Inspector Commission number)

NB 114934

U

CERTIFIED BY
SAMUEL PRESSURE VESSEL GROUP
LEBANON VA. USA 10390

MAWP 200 PSI AT 400 °F
MDMT -20 °F AT 200 PSI
HD .294 SH .375 YR 20 26
PART NO. C100331
CRN. R2127.5C