

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 Chart Inc. 407 Seventh Street NW, New Prague, Minnesota 56071
(Name and address of Manufacturer)

2. Manufactured for STOCK
(Name and address of Purchaser)

3. Location of installation STOCK
(Name and address)

4. Type VS-11000 26518 513467890 D14028741H/D14114391B 75044 2014
(Horizontal or vertical tank) (Manufacturer's serial number) (CRN) (Drawing Number) (National Board Number) (Year Built)

5. ASME Code, Section VIII, Division 1 2013 EDITION NA LOW TEMP. SVC. UW2B
[Addenda, if applicable(date)] (Code Case numbers) [Special Service per UG-120(d)]

6. Shell: SA240 T304 .374" 0 8' 1.3" 24' 11.7"
(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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-

7. Seams: TYPE 1 FULL 100 NA NA TYPE 2 FULL 90 5
[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 SA240 T304 (b) Material SA240 T304
(Spec. no., grade) (Spec. no., grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Apex Ratio	Hemispherical Radius	Flat Diameter	Side to Pressure (convex or Concave)
(a)	TOP	.359"	0	NA	NA	2:1	NA	NA	NA	CONCAVE
(b)	BOTTOM	.359"	0	NA	NA	2:1	NA	NA	NA	CONCAVE

Body Flanges on Heads

	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
(a)	-	-	-	-	-	-	-	-	-	-	-	-
(b)	-	-	-	-	-	-	-	-	-	-	-	-

9. MAWP 250 - PSI at max. temp. 120 - °F
(INTERNAL) (EXTERNAL) (INTERNAL) (EXTERNAL)

Min. design metal temp. -320 °F at 250 PSI: Hydro., pneu, or comb. Test pressure 457 PSI

Proof test NA

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	
NOZZLE	2	5.563"OD	W.E.	SA312 T304	NA	.750"	0	NA	UW16.1e	NA	NA
NOZZLE	1	2.38"OD	CPLG	SA182 F304	NA	.429"	0	NA	UW16.1e	NA	NA

11. Supports: Skirt NO Lugs NA Legs NA Other STRAPS Attached HEAD AND SHELL 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 following items of the report:

NONE

(Name of part, Item number, Manufacturer's Name and identifying stamp)

VACUUM JACKETED VESSEL. INNER VESSEL CODED ONLY. IMPACT TEST EXEMPT PER APPENDIX 44-6.1(g). RT-UW-11(A)(5). VENT PORT IS PLUGGED AND SEAL WELDED. TEST POSITION IS HORIZONTAL. FOR NONCORROSIVE SERVICE. "THIS VESSEL HAS BEEN CONSTRUCTED USING COLD-STRETCHING PROCESSES IN ACCORDANCE WITH MANDATORY APPENDIX 44"

FORM U-1A (Back)

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 8377

expires 1/15/2016

Date 5/19/2014

Co. Name CHART, INC.
(Manufacturer)

Signed *Danise Renda*
(Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Chart Inc at 407 7TH STREET NW, NEW PRAGUE, MINNESOTA 56071

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by ONECIS INSURANCE COMPANY

have inspected the component described in this Manufacturer's Data Report on 5/15/2014, 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 5/19/2014

Signed *[Signature]*
(Authorized Inspector)

Commissions NB 13148AN
[National Board (incl. endorsements)]