

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1 P.O. #1-09935-8

1. Manufactured and certified by REFRIGERATION VALVES AND SYSTEMS, CORP., 1520 CROSSWIND DR., BRYAN, TX 77803
(Name and address of manufacturer)
2. Manufactured for GARTNER REFRIGERATION, 3529 RALEIGH AVE., MINNEAPOLIS, MN 55416
(Name and address of purchaser)
3. Location of installation CENTRAL STORAGE WAREHOUSE, 7800 95TH ST., PLEASANT PRAIRIE, WI
(Name and address)
4. Type VERT. RCVR/INTCLR 93038 --- J0568-2, REV. 0 5457 1993
(Part, vert.) (Tank, separator, heat exch., etc.) (Mfg.'s serial No.) (CRN) (Drawing No.) (Part's Id. No.) (year built)
5. ASME Code, Section VI, Div. 1 1992 --- --- ---
(Edition and 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, shell of heat exchangers, or chamber of multi-chamber vessels.
6. Shell (a) No. of course(s): 2 (b) Overall length (ft. & in.): 13' 5"

Course(s)			Material	Thickness		Long Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No.	Outside Dia., In.	Length (ft. & in.)	Spec./Grade or Type	Nom.	Cor.	Type	Full, Spot, None	EH	Type	Full, Spot, None	EH	Temp.	Time (hr.)
1	54	10' 0"	SA516-70	.50	0	1	SPOT	85	2	SPOT	80	--	--
1	54	3' 5"	SA516-70	.50	0	1	SPOT	85	2	SPOT	80	--	--

7. Heads: (a) SA516-70 (b) SAME
(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp. (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp.

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)	Category A		
		Min.	Cor.	Crown	Knuckle						Type	Full.	Spot, None
(a)	TOP	.4375	0	48.6	9.342	2:1	---	---	---	CONCAVE	--	---	--
(b)	BTM	.4375	0	48.6	9.342	2:1	---	---	---	CONCAVE	--	---	--

If removable, bolts used (describe other fastening) ---
(Mat'l Spec. No., Grade, Size, No.)

8. Type of jacket --- Jacket closure ---
(describe as open & weld bar, etc.)

If bar, give dimensions --- If boxed, describe or sketch.

9. MAWP 250 --- psi at max. temp. +300 --- °F Min. design. metal temp. -20 °F at 250 psi.
(internal) (external) (internal) (external)

10. Impact test NO UG-20-f.
(Indicate yes or no and the component(s) impact tested)

11. Hydro, pneu. or comb. test press. 375 Proof test ---
(Indicate yes or no and the component(s) impact tested)

Items 12 and 13 to be completed for tube sections

12. Tubesheet: --- --- --- --- ---
(Stationary (Mat'l Spec. No.)) (Dis. in. (subject to press.)) (Nom. thk. in.) (Corr. Allow. in.) (Attachment (welded or bolted))
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(Floating (Mat'l Spec. No.)) (Dis. in.) (Nom. thk. in.) (Corr. Allow. in.) (Attachment)

13. Tubes: --- --- --- --- ---
(Mat'l Spec. No., Grade or Type) (O.D. in.) (Nom. thk. in. or gauge) (Number) (Type (Straight or U))

Items 14-15 to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell (a) No. of course(s): --- (b) Overall length (ft. & in.): ---

Course(s)			Material	Thickness		Long Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No.	Outside Dia., in.	Length (ft. & in.)	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time (hr.)
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15. Heads: (a) --- (b) ---
(Mat'l Spec. No., Grade or Type) H.T. - Time & Temp. (Mat'l Spec. No., Grade or Type) H.T. - Time & Temp.

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical	Conical Apex Angle	Hemispherical	Flat	Side to Pressure (Convex to Concave)	Category A		
		Min.	Cor.	Crown	Knuckle	Ratio		Radius	Diameter		Type	Full, Spot, None	Eff
(a)													
(b)													

If removable, bolts used (describe other fastening) ---
(Mat'l Spec. No., Grade, Size, No.)

16. MAWP --- --- psi at max. temp. --- --- °F Min. design. metal temp. --- °F at --- psi.
(internal) (external) (internal) (external)

17. Impact test ---
(Indicate yes or no and the component(s) impact tested)

18. Hydro, pneu. or comb. test press. --- Proof test ---

19. Nozzles, inspection, and safety valve openings:

[illegible]

20. Supports: Skirt NO Lugs 4 Legs 0 Other NONE Attached WELDED TO SHELL
(Yes or no) (No) (No) (Describe) (Where and how)

21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:
(List the name of part, item number, mfg's. name and identifying number)

22. Remarks: **FOR NON-LETHAL, NON-CORROSIVE SERVICE. PRESSURE RELIEF DEVICE SUPPLIED BY OTHERS.**

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. 18912 Expires Oct. 10
2-22-93 Name REFRIGERATION VALVES AND SYSTEMS CORP. Sig _____
Date (Manufacturer)

Signed

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Province of Texas and employed by COMMERCIAL UNION INSURANCE CO. of BOSTON, MA have inspected the pressure vessel described in this Manufacturer's Data Report on 2/23, 19 93, 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 2/23/93 Signed B. W. Davidson (Authorized Inspector) Commission 118-996-A - TX-1467

CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the statements on this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME Code, Section VIII, Division 1.

U Certificate of Authorization No. _____ Expires _____ 19____

Date _____ Name _____ Street _____

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 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 _____ (Authorized Inspector) Commissions _____ (Net! Board incl endorsement State, Province and No.)