

FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

93699

1. Manufactured by De Districh & Cie, 1 rue d'Offwiller, 67110 Zinswiller, France
(Name and address of manufacturer)
2. Manufacturer for Singmaster & Breyer, Inc. New York, New York
(Name and address of purchaser)
3. Location of installation FMC Corp. Baltimore, Maryland
(Name and address)
4. Type Vertical Vessel No. 31756 N/A VT 2600-027A 2367 Year Built 1980
(Horiz. or vert. tank) (Mfg's Serial No.) (CRN) (Drawing) (Nat'l Brd No.)
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 1977 and Addenda to Summer 78 and Code Case no. N/A Special service per UG-120(d) N/A
(Date) (Year)
6. Manufacturers' 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, mfg's name and identifying stamp)

Items 6-11 incl. to be completed for single walled vessels, jackets of jacketed vessels, or shells of heat exchangers.

6. Shell: Material SA285B Nominal Thickness 35/64 in. Corrosion Allowance N/A in. Diam. 8 ft 6-3/8 in. Length 7 ft 4-11/32 in.
(Spec. No., Grade)
7. Seams: Longitudinal Welded, Dbl. Butt R.T. Spot Efficiency 85 % H.T. Temp * F
(Welded, Dbl., Sngl., Lap, Butt) (Spot or Full)
- Time * Girth Welded, Dbl. Butt R.T. Partial No. of Courses 1
(Welded Dbl., Dngl., Lap, Butt) (Spot, Partial or Full)
8. Heads: (a) Material SA 285 B (b) Material SA 285 B
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a)	Top	35/64"	102-3/8"	10-15/64"	N/A	N/A
(b)	Bottom	35/64"	102-3/8"	10-15/64"	N/A	N/A
	Conical Apex Angle	Hemispherical Radius		Flat Diameter	Side to Pressure (Convex or Concave)	
(a)	N/A	N/A		N/A	Concave	
(b)	N/A	N/A		N/A	Concave	

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

9. Type of Jacket N/A Proof Test N/A
10. Jacket Closure N/A If bar, give dimensions 40 & F.V. If bolted, describe or sketch.
11. Constructed for max. allowable working pressure 400 psi at max. temp. 400 F Min. temp. (when less than -20 F) N/A F.
Hydrostatic, pneumatic, or combination test pressure 44 psi

Items 12 and 13 to be completed for tube sections

12. Tubesheets: Stationary—Material N/A Diam. N/A in. Nominal Thickness N/A in. Corrosion Allowance N/A in. Attachment N/A Floating—Material N/A Diam. N/A in. Attachment N/A
(Spec. No., Gr.) (Subject to pressure) (Spec. No., Grade)
13. Tubes: Material N/A O.D. N/A in. Nominal Thickness N/A in. or gauge Number N/A Type N/A
(Spec. No., Gr.) (Straight or "U")

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

14. Shell: Material N/A Nominal Thickness N/A in. Corrosion Allowance N/A in. Diam. N/A ft N/A in. Length N/A ft N/A in.
(Spec. No., Gr.)
15. Seams: Longitudinal N/A R.T. N/A Efficiency N/A % H.T. Temp N/A F Time N/A
(Welded, Dbl., Sngl. Lap, Butt) (Spot or Full)
- Girth N/A R.T. N/A No. of courses N/A
(Welded, Dbl., Sngl., Lap, Butt) (Spot, Partial, or Full)
16. Heads: (a) Material N/A (b) Material N/A
(Spec. No., Grade) (Spec. No., Gr.)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a)						
(b)						
	Conical Apex Angle	Hemispherical Radius		Flat Diameter	Side to Pressure (Convex or Concave)	
(a)						
(b)						

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

17. Constructed for max. allowable working pressure N/A psi at max temp. _____ F. Min. temp. (when less than -20 F) _____ F.

Hydrostatic, pneumatic, or combination test pressure _____ psi.

Items below to be completed for all vessels where applicable

18. Safety Valve Outlets: Number N/A Size _____ Location _____

19. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached
Inlet	1	6" Db1	Butt Girth	SA 181-1	15/32"	None	Welded
Inlet	5	3" Db1	Butt Girth	SA 181-1	15/32"	None	Welded
Outlet	1	4" Db1	Butt Girth	SA 181-1	15/32"	None	Welded

20. Inspection Openings:

Manholes No. 1 Size 17-3/4" dia. Location on top headHandholes No. 0 Size _____ Location _____Threaded No. 0 Size _____ Location _____21. Supports: Skirt Yes Lugs 2 lifting 6-3" pipe 2 insulation rings + 2 guiding lugs Attached Welded on heads22. Remarks: *Vessel H.T. at high temperature for extended period of time due to glass lining process. Glass lined steel vessel for chemical use.

CERTIFICATE OF 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.

Date Feb. 14, 80 Signed De Dietrich & Cie by WAGNER R. B. C. MER.

(Manufacturer)

(Representative)

"U" Certificate of Authorization No. 11718 expires April 16 19 80.

CERTIFICATE OF SHOP INSPECTION

Vessel made by De Dietrich & Cie at Zinswiller, France

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 Ohio and employed by The Royal Indemnity Company of New York, N.Y. have inspected the pressure vessel described in this Manufacturers' Data Report on Feb. 11 1980 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 the Manufacturers' 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 25 Feb. 1980

Signed S.G. AKERMAN Commissions N.B. 8074

(Inspector) (Nat'l Board, State, Province and No.)

CERTIFICATE OF COMPLIANCE FOR FIELD WORK

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.

Date _____ Signed _____ by _____

(Manufacturer) (Representative)

"U" Certificate of Authorization No. _____ expires _____, 19 _____.

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 Manufacturers' 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 that, 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 Manufacturers' 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 _____ Commissions _____

(Authorized Inspector) (Nat'l Board, State, Province and No.)

