

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

1. Manufactured by DOYLE & ROTH MFG. CO. INC., LACKAWANNA CTY., SIMPSON, PA. 18407
(Name and address of manufacturer)
2. Manufacturer for HOFFMANN-LAROCHE INC., CENTRAL RECEIVING
(Name and address of purchaser)
3. Location of installation BLDG. 200, BELVIDERE, NEW JERSEY 07823
(Name and address)
4. Type HORIZ. Vessel No. J-2159-5 B-4783-1 10273 Year Built 1979
(Horiz. or vert. tank) (Mfg's Serial No.) (ICRN) (Drawing) (Net's Bld 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 1977 and Code Case no. Special service per UG-120(d)
(Date)
Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:
(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 SA240 T-316 Nominal Thickness 1/4 in. Corrosion Allowance in. Diam. 2 ft 8 in. Length 19 ft 11-7/8 in.
(Spec. No., Grade) (Welded, Dbl., Sngl., Lap, But) (Spot or Full) Efficiency 70 % H.T. Temp F
7. Seams: Longitudinal DWB R.T. Efficiency 70 % H.T. Temp F
(Welded, Dbl., Sngl., Lap, But) (Spot or Full)
Time Girth DWB R.T. No. of Courses 3
(Welded, Dbl., Sngl., Lap, But) (Spot, Partial or Full)
8. Heads: (a) Material (Spec. No., Grade) (b) Material (Spec. No., Grade)

	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) (Material, Spec. No., Gr., Size, No.)

9. Type of Jacket Proof Test
10. Jacket Closure If bar, give dimensions If bolted, describe or sketch.
(Describe as open & weld, bar, etc.)
11. Constructed for max. allowable working pressure 20 psi at max. temp. 180° F Min. temp. (when less than -20 F) F.
Hydrostatic, pneumatic, or combination test pressure 30 psi

Items 12 and 13 to be completed for tube sections
12. Tubesheets: Stationary—Material SA240 T316 Diam. 33-3/4 in. Nominal Thickness 1-1/4 in. Corrosion
(Spec. No., Gr.) (Subject to pressure)
Allowance in. Attachment Welded Floating—Material Diam. in.
(Welded, Bolted) (Spec. No., Grade)

Nominal Thickness in. Corrosion Allowance in. Attachment
13. Tubes: Material SA249 T316 O.D. 3/4 in. Nominal Thickness 16xxx gauge Number 780 Type Strt.
(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 SA285C Nominal Thickness 3/8 in. Corrosion Allowance 1/16 in. Diam. 2 ft 8 in. Length 1 ft 5 1/2 in.
(Spec. No., Gr.)

15. Seams: Longitudinal DWB R.T. Efficiency 70 % H.T. Temp F Time
(Welded, Dbl., Sngl., Lap, But) (Spot or Full)
Girth DWB R.T. No. of courses 1
(Welded, Dbl., Sngl., Lap, But) (Spot, Partial, or Full)

16. Heads: (a) Material SA285C (Spec. No., Grade) (b) Material (Spec. No., Gr.)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a)	<u>Ends</u>	<u>3/8"</u>	<u>1/16"</u>	-	-	<u>2:1</u>
(b)	-	-	-	-	-	-

	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	-	-	-	<u>Concave</u>
(b)	-	-	-	-

If removable, bolts used (describe other fastenings) Alloy SA193 B7M & SA-194 2H (28) 3/4"
(Material, Spec. No., Gr., Size, No.)



DOYLE & ROTH MFG. CO. INC.

NEW YORK

MFG. SERIAL NO.

NATI. BOARD NO.

DIVISION I

W 15215955

10278

CS-58

M.A.W.P.S.I.G.

MAX. TEMP. °F

EQUIPMENT NO.

SHELL

20

@

180

15215955

TUBE

160

@

150

YEAR BUILT

DWG NO.



1943

15215955

10278

EQUIP. CODE NO. CSF-3