

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

R194-0063

12

1. Manufactured and certified by PFAUDLER, INC., 1000 WEST AVENUE, ROCHESTER, NEW YORK 14611
(Name and address of Manufacturer)

2. Manufactured for ROHM & HAAS BAYPORT, INC., BRISTOL, PA
(Name and address of Purchaser)

3. Location of installation ROHM & HAAS BAYPORT, INC., LAPORTE, TX
(Name and address)

4. Type: VERTICAL JACKETED VESSEL, RA96-4000-100-90"B R194-0063
(Hdz., vert., or sphere) (Tank, separator, jkt. vessel, heat exch., etc.) (Mfg's serial No.)

*NA R194-0063 SHT. 1 47860 1995
(CHN) (Drawing No.) (Rev.) (Mfg. Id. No.) (Year Built)

5. ASME Code, Section VIII, Division 1 1992, A93 2119, 2062-1, 1970-2 NA
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): 1 (b) Overall length (ft & in.): 9' 7"

Course(s)			Material	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.	Diameter, in.	Length (ft & in.)	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	102" ID	9' 7"	SA 516 GR. 70	1/2"	1/16	1	NONE	70%	1,2	NONE	65%	NA	NA

7. Heads: (a) NA (b) SA 516 GR. 70
(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		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
(b)	BOTTOM	.625"	1/16"	96"	6-1/4"	NA	NA	NA	NA	NO	YES	S	NONE	85%

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

8. Type of jacket FIG. 9-2, TYPE 5 Jacket closure FIG. 9-5, (B-2)
(Describe as ogee & weld, bar, etc.)

If bar, give dimensions NA If bolted, describe or sketch.

9. MAWP NOTE 1 NA psi at max. temp. 450 NA °F. Min. design metal temp. -20 °F at 90 psi.
(internal) (external)

10. Impact test NO, EXEMPT FROM IMPACT TESTING PER UG-20(F).
(Indicate yes or no and the component(s) impact tested)

11. Hydro., pneu., or comb. test press. 105 PSI Proof test NA

Items 12 and 13 to be completed for tube sections.

12. Tubesheet: (ITEMS 12 & 13 NA)
Stationary (Mat'l Spec. No.) Dia., in. (subject to press.) Nom. thk., in. Corr. Allow., in. Attachment (welded or bolted)

Floating (Mat'l Spec. No.) Dia., 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 14-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

14. Shell (a) No. of course(s): 1 (b) Overall length (ft & in.): 8' 9"

Course(s)			Material	Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.	Diameter, in.	Length (ft & in.)	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time
1	96" ID	8' 9"	SA 285 GR. C	1"	1/16	1	NONE	70%	1	NONE	70%	PER9-9	PER9-9

15. Heads: (a) SA 285 GR. C, PER 9-9 (b) SA 285 GR. C, PER 9-9
(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		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	TOP	.937"	0	NA	NA	2:1	NA	NA	NA	YES	YES	S	NONE	85%
(b)	BOTTOM	.937"	1/16"	NA	NA	2:1	NA	NA	NA	YES	YES	S	NONE	85%

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

16. MAWP 100/FV 105 psi at max. temp. 450 450 °F. Min. design metal temp. -20 °F at 100 psi
(internal) (external) (internal) (external)
17. Impact test NO, EXEMPT FROM IMPACT TESTING PER UG-20(F).
(Indicate yes or no and the component(s) impact tested)
18. Hydro., pneu., or comb. test press. 100 PSI Proof test NA
19. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How Attached		Location (Tag Open)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
AGITATOR	1	36"	CLMP	SA 836	SA 836	7/8"	0	NA	NOTE 2	INTEGRAL	NA
MANHOLE	1	18"	CLMP	SA 836	SA 836	9/16"	0	NA	NOTE 2	INTEGRAL	NA
INLET/OUTLET	5	4"	LAP-JT	SA 836	NOTE 4	21/32"	0	NA	NOTE 2	LOOSE	NA
INLET	2	8"	LAP-JT	SA 836	NOTE 4	23/32"	0	NA	NOTE 2	LOOSE	NA
BAFFLE	2	6"	LAP-JT	SA 836	NOTE 4	23/32"	0	NA	NOTE 2	LOOSE	NA
JKT CONN	2	4"	SCDCPLG	NOTE 4	NA	3000#	1/16"	NA	UW-16.1C	NA	NA
JKT CONN	2	3"	SCDCPLG	NOTE 4	NA	3000#	1/16"	NA	UW-16.1C	NA	NA

20. Supports: Skirt NO Lugs 0 Legs 6 Others NA Attached WELDED TO JKT. HEAD
(Yes or no) (See) (See) (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, msg's name and identifying number)
- NA

22. Remarks: NOTE 1: 90/90 W/FV. NOTE 2: CATEGORY B WELD TO SWAGED OPENING (E=0.7). NOTE 3: SA 216 WCA.
NOTE 4: SA 181 CL 60. INNER VESSEL HYDROTESTED IN THE VERTICAL POSITION. PRESSURE RELIEF PER UG-125
TO BE PROVIDED BY USER. SEE FORM U4.
(*NOT APPLICABLE) CUSTOMER ORDER NO.: PO15-25036

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 408 Expires DECEMBER 31, 19 97
Date 3/22/1995 Name PFAUDLER, INC. Signed [Signature]
(Manufacturer) (Representative)

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 or Province of NEW YORK and employed by HARTFORD STEAM BOILER INSPECTION AND INSURANCE COMPANY of HARTFORD, CT have inspected the pressure vessel described in the Manufacturer's Data Report on 3/22, 19 95, 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 3/22/95 Signed [Signature] Commissions N.B.# 10496 A SUR 4077
(Authorized Inspector) (Net'l Board incl. endorsement, State, Province and No.)

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 _____ Signed _____
(Assembler) (Representative)

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

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FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

R194-0063

1. Manufactured and certified by PFAUDLER, INC., 1000 WEST AVENUE, ROCHESTER, NEW YORK 14611
(Name and address of Manufacturer)

2. Manufactured for ROHM & HAAS BAYPORT, INC., BRISTOL, PA
(Name and address of Purchaser)

3. Location of installation ROHM & HAAS BAYPORT, INC., LAPORTE, TX
(Name and address)

4. Type: VERTICAL JACKETED VESSEL, RA96-4000-100-90"B" R194-0063
(Horiz., vert., or sphere) (Tank, separator, heat exch., etc.) (Mfg's serial No.)
NA R194-0063 SHT. 1 47860 1995
(CRN) (Drawing No.) (Nat'l. Bd. No.) (Year Built)
Rev.A

Data Report
Item Number

Remarks

ITEM 19. NOZZLES

PURPOSE	NO.	DIAMETER OR SIZE	FLANGE TYPE	MATERIAL NOZZLE	FLANGE
JKT CONN	6	2"	SCD CPLG	NOTE 3	NA
JKT CONN	2	1/2"	SCD CPLG	SA 105	NA
INSP ASSY	2	2"	SCD CPLG	NOTE 3	NA

NOZZLE THICKNESS	REINFORCEMENT	HOW ATTACHED	NOZZLE	FLANGE	LOCATION
NOM.	CORR.	MATERIAL			
3000#	1/16"	NA	UW-16.1C	NA	NA
3000#	1/16"	NA	UW-16.1C	NA	NA
3000#	1/16"	NA	UW-16.1C	NA	NA

Certificate of Authorization: Type U No. 408 Expires DECEMBER 31, 19 97

Date 3/22/1995 Name PFAUDLER, INC. Signed James D. Name
(Manufacturer) (Representative)

Date 3/22/95 Name Bruce [Signature] Commission N.B.# 10496 A sub 4077
(Authorized Inspector) (Nat'l Board Incl. endorsement, State, Province and No.)

(12/91)

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