

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

1. Manufactured and certified by CURTIS KELLY, INC. 14875 WATERLOO HOUSTON, TEXAS 77053
(Name and address of Manufacturer)

2. Manufactured for M.W. KELLOGG, 601 JEFFERSON AVENUE HOUSTON, TEXAS 77210-4557
(Name and address of Purchaser)

3. Location of installation PHILLIPS SUMIKA POLYPROPYLENE CO. PASADENA, TEXAS
(Name and address)

4. Type: VERTICAL JACKETED VESSEL 1276
(Horiz., vert., or sphere) (Tank, separator, jkt. vessel, heat exh., etc.) (Mfg's serial No.)

----- 4646-1276 NO 1995
(CRN) (Drawing No.) (Mat'l. Bd. No.) (Year built)

5. ASME Code, Section VIII, Div. 1 1992 A93 ----- -----
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.): 6'-1"

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	46"ID	6'-1"	SA-240-304		.25"	0"	1	SPOT	85	1	SPOT	85	---	---

7. Heads: (a) SA-240-304 (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 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)	BTM.	.25"	0"	---	---	2:1	---	---	---	---	*	SMLS	NONE	85
(b)														

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

8. Type of jacket: APPENDIX 9 TYPE 2 Jacket closure BAR
(Describe as ogee & weld, bar, etc.)

If bar, give dimensions 3/4" X 2 1/2" If bolted, describe or sketch.

9. MAWP 80 15 psi at max. temp. 325 325 °F Min. design metal temp. 30 °F at 80 psi.
(internal) (external) (internal) (external)

10. Impact test NO - IMPACT TEST EXEMPT PER UHA51(A)
(Indicate yes or no and the component(s) impact tested)

11. Hydro. ~~PROB. FAILURE~~ test press. 137 Proof test NONE

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)

----- ----- ----- ----- -----
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 14-18 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.): 6'-8"

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	42"OD	6'-8"	SA-240-304		.4375"	0"	1	FULL	1.0	1	FULL	1.0	---	---

15. Heads: (a) SA-240-304 (b) SA 105
(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	.875"	0"	---	---	---	---	---	50"	N/A	N/A	SMLS	NONE	1.0
	(b) BTM.	.437"	0"	---	---	2:1	---	---	---	X	X	SMLS	NONE	1.0

If removable, bolts used (describe other fastening) (48) 1 1/8" / STUDS W/(2) H.H. NUTS SA-193-B7 & SA-194-2H
(Mat'l Spec. No., Grade, size, No.)

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

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4646-1276 NO 1995
(CRN) (Drawing No.) (Nat'l. Bd. No.) (Year built)

Data Report
Item Number

Remarks

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 (Insp. Open.)
				Nozzle	Flange	Nom.	Cor.		Nozzle	Flange	
POWDER INLET	1	8"	F	A	B	.322"	0"	SA-516-70	D	E	
LIO. OUTLET	1	3"	G	N/A	B	2.75"	0"	C	D	N/A	
STEAM INLET	1	1 1/2"	F	A	B	.145"	0"	C	D	E	
COND. OUTLET	1	1"	F	A	B	.133"	0"	C	D	E	
VENT	1	2"	F	A	B	.154"	0"	C	D	E	
TI. CONN.	1	2"	F	A	B	.154"	0"	C	D	E	
TE. CONN.	1	2"	F	A	B	.154"	0"	C	D	E	
SPARE	1	2"	F	A	B	.154"	0"	C	D	E	
DRAIN	1	2"	F	A	B	.154"	0"	C	D	E	
LT. CONN.	1	4"	F	A	B	.237"	0"	C	D	E	
AGITATOR	1	8"	F	A	B	.322"	0"	SA-516-70	D	E	

A= SA-312-TR304 B=SA-182-F304 C= INHERENT D= FIG. UW16.1E E= WELDED F= REWN
G= STUDDING OUTLET

Certificate of Authorization: Type U No. 5554 Expires 1-30 19 98

Date 6-16-95 Name CURTIS KELLY, INC. Signed Phillip Huron
(Manufacturer) (Representative)

Date 6-16-95 Name RF alford Commission TX 1033
(Authorized Inspector) (Nat'l. Board incl. endorsement, State, Province and No.)

(12/91)

This form (E00118) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300

REPRINT 9/92