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

R-250

KC108-5000-90-125

	Jacobs	and cora	nod by Fi	AUDILLIA, IIA	C., 1000 WES	I AVENUE	, ROCHE											
F.	danufactured	for Joh	ın Brown,	440 Route 22	East, POBox	6884, Bri	dgewater,	(Name and NJ 0880768	d addn 184	ess of Manufac	cturer)							
						107		(Name and addr		Purcheser)								
3. 9	JAT OF III	Stallauori	AGIEVO	USA, 1740 V	Vhitehall Road,	, North Mu	iskegon, I		e and s	acidrees)						-		
4. T	ype:	Vertical			sel, KC108-50		J009816			NA		R9612	284 Sht.1	Rev.D	48	670	1997	
5 A		Coeffor V			vessel, heet exh., e , Addenda 199		(Mig's a	arial No.)		(CRN)			(Drawing No.		_	Bd. No.)	(Year built	
J. A	OME GOOD,	OOCHOIT V	III, DIV. I		n and Addenda (dal		C	2043-2 ode Case No.					Cracial Can	NA ce per UG-120	14-0			
Item	s 6 - 11 Incl	, to be cor	npleted for		essels, jackets				excl	hangers, or	cham	ber of m	ulti-char	on pur uG-12. Iber vessel	(O)			
	hell (a) No.				1			l length (ft & i		•	10/10/00/00			9-3/8"	٠.			
Course(s) Material						Thickness Long. Joint (Cat.				ot (Cat. A)	A)							
No	No. Diameter, in. Length (ft & in.		th (ft & in.)	) Spec./Grade or Type		Nom.	Corr.	Type	-	II, Spot, None Eff.				I, Spot, None			reatment	
1	114-1/2°			SA-516 Gr 70		3/4"	1/16*	1	· un	None	70%	Type Full,		None	65%	Temp.	-	
												•		7,4110	10070	101	100	
7. H	eads: (a)				NA NA			(b)	)				SA-516 (	Gr 70 NA			-	
	Location (Top	1 ' Th	ickness	Control of the Contro	ada or Typa) H.T. • Radius	The second second	1 0	- In			(Mat)			o) H.T Time	& Temp	N.		
	Bottom, Ends		Corr.	Crown	Knuckle	Elliptical Ratio	Conic Apex Ar			Flat	-	Side to F				alegory A		
(a)	NA	NA	NA	NA	NA	NA	NA	NA NA	+	Diameter NA	_	xivex VA	Concav	e Typ	_	ull, Spot, NA		
(b)	Bottom	.938"	1/16*	108"	7°.	NA	NA	NA NA	-	NA	-	es	Yes	S		None	NA 85%	
52	pe of jacket par, give dim	5/125w/F\	/ 1	5 psiat	2, Type 5 max. temp.	. 400	7	Jacket closu	re .	(Mati Spec. No		(Dec	FIG. 9 scribe as oge	2-5, (b-2) 6 & weld, ber, If bolton	ed, de	scribe or	sketch.	
				pact testing pe				(external) no and the compo							-			
	ydro., passes 12 and 13 h			ube sections.		140 psi		Proof to	est	-			^	VA				
	besheet	o be comp		12-13 NA														
				Ast Spec. No.)	<del></del>	Dia., in (subjec	t to press.)	Nom, thk, i	n.	Corr.	Alow., ir	L		Attachmer	l Awalda	d or botted)		
_								`				7.)		, and the second	111000	a ci bolouj		
3. Tu	bes:	Floating (Mat1	37 370		Dia., in.			Nom. thk; in.			Corr, Alio	w., in.			Attachn	nent		
eme	14 - 18 incl	Meti S	pec. No., Gred	le or Type inner chambo	o. ers of jacketed	D., in.	abanasla	Nom. thk, in.	or gau	igo		N	umber	_	Тура	(Straight or L	)	
	ell (a) No. o			mile chambe	1 1	vessels or		or near excha erall length (ft	-					B' 11"				
	Cour	se(s)		Mat	erial	Thick	ness	Long. J	loint (	Cat. A)		Circun	n Joint (Ca	at. A, B & C)	T	Heat Tre	palment	
lo.	Diameter, in.	Length (	(ft. & in.)	Spec./Gra	de or Type	Nom.	Corr.			Spot, None	Eff	Туре		Spot, None		Temp.	Time	
1	108° ID	8,	11°	SA-28	5 Gr C	1-1/8"	1/16"	1			0%	1			70%	27-6	27-6	
_								_										
. He	ads: (a)				Per Appendix			<b>(b)</b>			S	A-285 G	r C Per A	ppendix 27	<b>'-6</b>			
II	cation (Top,	Thick	(Mai		or Type) H.T Tim		0	T						pe) H.T Time				
100	ottom, Ends)			Raclius Crown Knuckle		Elliptical Ratio	1	Conical Hemispherical		Flat	The second second		de to Pressure		Category A			
)	Top	1.187"	0"	NA	NA	2:1	Apex Angle	e Radius NA	+-	Diameter NA	Con		Concave	Type	Full	, Spot, Nor	те Eff. 85%	
)	Bottom	1.187"	1/16°	NA NA	NA NA	2:1	NA	NA	+	NA NA	Ye		Yes Yes	S	+	None None	85%	
er-"	ble, bolts				NA	\.		1 ,5,		101	10	//	165			NOIRG	100 70	

(Marl Spec, No., Grade, Size, No.)

90/FV		140	_ psi at max, temp.	400 400	° F	Min, de	sign metal temp.	10 *Fat		90 psi.			
	(into	•	(externel) simposet ter	sting per UCS-66(a).	(internal) (coternal)	}							
ਡੀ	140,	exemplina	I ampact te	sung per coo-co(a).	(Indicale yes or no and the	component(s	Impact leste	d)					
J., <b>K</b> #19	₩4., C	raxxando. test	pressure	90 psi	•	roof test			NA	·	<del></del>		
	pectio	n, and salety		nings:		+	<del></del>						
inlet, Drameter			Flange	Mater	ial	Nozzle T	hickness	Reinforcement			Location		
el, an, elc.	.) No.	or Size	Туре	Nozzle	Flange	Nom.	Corr.	Material	Nozzie	Flange	(Insp. Open.)		
Manway/Cvr	1	24"	CLAMP	SA-836	SA-836	7/8"	0"	NA .	Note 1	Integral	NA NA		
Inlet	4	8"	LAPJT	SA-836	SA-181 CI 60	23/32"	0"	NA	Note 1	Loose	NA NA		
Inlet/Outlet	4	6ª	LAPJT	SA-836	SA-181 CI 60	23/32"	0°	NA NA	Note 1	Loose	NA NA		
Inlet	3	4"	LAPJT	SA-836	SA-181 CI 60	21/32°	0"	NA NA	Note 1	Loose	NA NA		
Jkt Conn	1	4*	LAPJT	SA-216 Gr WCA	SA-105	CL.150	0*	NA NA	UW-16.1c	Loose	NA		
Jkt Conn	5	3°	LAPJT	SA-216 Gr WCA	SA-105	CL.150	0"	NA NA	UW-16.1c	Loose	NA NA		
Jkt Conn	2	2"	NPT	SA-216 Gr WCA	NA NA	3000#	0"	NA NA	UW-16.1c	NA	Head/Shell		
). Supports; SI	kirt	No	Lugs	4 Legs	0 Others		NA	Attached	Wel	ded to jacl	ket shell		
(Yes or No.) (No.) (No.) (No.) (Describe) (Where and How)  . Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: ist the name of part, item number, mfg's. name and identifying number)  A  . Remarks: Constructed in Conformance With Appendix 27, Alternative Requirements For Glass-Lined Vessels.													
				swaged opening,									
				to be provided a	<del></del>				Vercio	ar pos	TCTOII.		
ee Form U				er no. JB-94156-	***************************************			. J009816.					
ee roim c	,-4.	Cuscon	er ord	et No. ob-34136-	II.OI. PIAGGI	er ser	141 110	. 0003010.			<del></del> _		
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 3/24/97 Name  PFAUDLER, INC.  Signed  January B. Manie													
					nufacturer)				(Represe	ntasivo)			
					IFICATE OF SHOP IF								
, the undersig	ned, h	olding a valid	i commissi	on issued by The National	Board of Boiler and Pre	essure Ves	sel insped	tors and the State or	Province of		NY		
and employed	by _	Ha	rtford Stea	m Boiler Inspection and Ins	·····	of		Hartford, Connec			ave inspected		
the pressure vessel described in this Manufacturer's Data Report on 3/24, 19 97, 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 poncerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector													
-//	A C	. ~	•	er for erry personal injury o	1	•		1016	C A	spection.			
Date3/&	7//	Sign	ea	(Authorized Insc	Kelleyry		issions _	N.B.#	formement Stub	Project en	1 No 1		
					E OF FIELD ASSEME	21 Y COM	DITANCE		CO PRINCIPLE COM	D, T TOTAL CO COLO	31.0.7		
We certify that Code, Section			this report	are correct and that the					ith the requi	rements of	ASME		
J Certificate of	Autho	rization No.					Expi	res		, 19			
Date		Nar	ne					Signed					
				Ų	(vsidmess)				(Represent	adve)			
				CERTIFICAT	E OF FIELD ASSEM	BLY INSP	ECTION						
, the undersign	ned, ho	olding a valid	commission	on issued by The National E	Board of Boiler and Pre	ssure Vess	sel Inspec	tors and the State or I	Province of	<del>,</del>			
and employed							0						
ave compare	d the	statements	in this M	lanufacturer's Data Repo							ì		
		· · · · · · · · · · · · · · · · · · ·			ed in the certificate of s								
				ted and assembled this pro									
vas inspected expressed or in se liable in anv	nplied,	concerning	the pressur	test of re vessel described in this y or property damage or a	Manufacturer's Data	Report Fi	urthermore	ther the Inspector nor e, neither the Inspec vith this inspection.					
)ati		Signe		A think and aming a min		Commi							
rait			·~	(Authorized Insp	ector)			(Natl Board incl. end	orsement, State	Province and	No.)		