National Board Number

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules Section VIII

13. Tubes

SA-249 T304L

(Material spec. no., grade or type)



Page 1 of 3 As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1 1. Manufactured and certified by Hudson Products Corporation, 9660 Grunwald Road, Beasley, Texas, 77417 (Name and address of Manufacturer) 2. Manufactured for ATLANTIC COAST PIPELINE, LLC., PO Box 25459, Richmond, Virginia, 23260 (Name and address of Purchaser) 3. Location of installation ATLANTIC COAST PIPELINE, LLC., NORTHHAMPTON, North Carolina (Name and address) Air Cooled Heat Exchanger 4. Type Horizontal (Horizontal, vertical, or sphere) S16286-11A-B-1 (Tank, separator, jkt. vessel, heat exch., etc.) (Manufacturer's serial number) S16286-1, REV 3 2018 32269 (National Board number) (Year built) (Drawing number) 5. ASME Code, Section VIII, Div. 1 2015/ N/A N/A (Code Case Number) [Edition and Addenda, if applicable (date)] [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 multichamber vessels. 6. Shell: (a) Number of course(s) (b) Overall length 7' 0.0625" Circum. Joint (Cat. A, B, & C) Thickness Long. Joint (Cat. A) Heat Treatment Course(s) Material Type Full, Spot, None Eff. Type Full, Spot, None Time No Diameter Length Nom Corr. Eff. Temp. Spec./Grade or Type N/A N/A N/A N/A N/A N/A N/A 7.375" x 11.75" 7' 0.0625" N/A N/A N/A 1 N/A **Body Flanges on Shells** Bolting How Flange Washer (OD, ID, Min Hub Thk No. Туре ID OD Material Location Bolting Washer Attached Num & Size Material thk) Material N/A 7. Heads: (a) SA-516, 70N, 1125-1175F - 2:00 HR SA-516, 70N, 1125-1175F - 2:00 HR (Material spec. number, grade or type) (H.T. - time and temp.) (Material spec. number, grade or type) (H.T. - time and temp.) Thickness Flat Diameter Side to Pressure Category A Location (Top, Radius Elliptical Conical Hemispheri Bottom, Ends) Apex Angle cal Radius Min. Ratio Convex Concave Full, Spot, None Eff. Crown Knuckle Corr. Type Top & Bottom 0.875 0.0625 3.8125 x 84.0625 C.J. **Partial** N/A (a) N/A N/A N/A N/A N/A N/A (b) **Ends** 0.875 0.0625 N/A N/A N/A N/A N/A 3.8125 x 9.6875 C.J. **Partial Body Flanges on Heads** Bolting Min Hub Bolting Material Washer (OD, Location ID OD Flange Thk Material How Attached Type Num & Size Washer Material Thk N/A (a) 8. Type of jacket N/A Jacket closure (Describe as ogee & weld, bar, etc.) If bar, give dimensions; if bolted, describe or sketch N/A Min. design metal temp. 9. MAWP at max. temp. 130 °F - 20 °F 1527 psi N/A N/A 1527 psi (Internal) (External) (Internal) (External) No, per UG-20 (f). at test temperature of 10. Impact test [Indicate yes or no and the component(s) impact tested] N/A Hydro at 2443 psi Proof test 11. Hydro., pneu., or comb. test pressure __ Items 12 and 13 to be completed for tube sections. 11.750" x 84.0625" Welded 12. Tubesheet SA-516, 70N 0.0625 [Stationary (material spec. no.)] [Diameter (subject to press.)] (Nominal thickness) Attachment (welded or bolted) (Corr. allow.) N/A [Floating (material spec. no.)] N/A N/A N/A N/A (Nominal thickness) (Attachment) (Diameter) (Corr. allow.)

1.000

0.065

(Nominal thickness)

178

(Number)

Straight
[Type (Straight or U)]

Vlan	ufactured by	Hu	dsor	n Prod	ducts (Corporatio	n, 9660 Grunw	ald Road	l, Beasle	, Texas, 77	417					
v lani	ufacturer's S	erial No	· S16	286-11	A-B-1		CRN !	N/A			Na	ational Bo	ard No. 3226	9		
14. S	Items 14-18 Shell: (a) No	incl. to . of cour	be co rse(s)	mplet	ed for ii N/A	nner chamb	ers of jacketed v (b) Ov	vessels or erall lengt		of heat excha	ngers	S.				
	Cou	rse(s)				Material	Thio	kness	T	ong. Joint (Cat.	A)	Circun	n. Joint (Cat. A,	B, & C)	Heat	Treatment
No.	Diameter		Leng	th	Snec	/Grade or Typ		Corr.		Full, Spot, None			ıll, Spot, None	Eff.	Temp.	Time
	N/A		N/A			N/A	N/A	N/A	N/A	N/A		A N/A	N/A	N/A	N/A	N/A
								Rody Flanc	es on Shel	8						
					Elor			Jouy I lang	How					olting		
No.	Туре		ID	OD	Flar		b Thk Mate	erial	Attached	Location	Nu	ım & Size	Bolting Material		(OD, ID, k)	Washer Material
N/A	N/A	N/A	\	N/A	N/A	N/A	N/A		N/A	N/A	N/A		N/A	N/A		N/A
15. I	Heads: (a)					N/A				(b)			N/A			
	who comes	(Mate	rial sp	ec. nur	nber, gra	ade or type) (H.T time and ten	np.)		(N	lateria	ıl spec. nun	nber, grade or t	ype) (H.T	time an	d temp.)
	Location (To			hicknes			Radius		1	ex Hemispher			Side to Pressure		Catego	·
	Bottom, End		Min.		Corr.	Crow		Ratio	Angle	Radius			Convex Concave			oot, None Eff.
N/A	N/A		N/A		N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A N/A	N/A		I/A N/A
							E	Body Flang	es on Head	S						
	1 4!	T		- 10		D 5'	Min Hub	Mata	rial .	Javy Attached				Bolting	or (OD	
	Location	Туре		ID		DD Flang	e ink Thk	Mate		How Attached		lum & Size				/asher Material
N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/	4	N/A		N/A	N/A	<u> N</u>	I/A
17.	Impact test					[Indicate y	temp. N/(Inter	N/A compone	ent(s) impa	ct tested]					at	N/A of N/A
19.	Nozzles, ins	pection	, and	safety	valve	openings:										
Pur	pose (Inlet, O	utlet, Dra	in,	Jo Dia	meter or	Туре	Mate	erial	Noz	le Thickness		nforcemen	t Attachm	ent Detail	s Lo	cation (Insp.
	eic.)				SIZE	• • •	Nozzle	Flange			l	Material	Nozzle	Flang		Open.)
	INLET / OU				" 900#	RFWN	04.405	SA-10	5 SCH	160 0.0625		None	100/404	UW16	.1	
TDA	VENT/DRA NSITION - INL				- 6000# 8"	COUPLING Pipe	SA-105 SA-234 WPB		SCH	0.0625 160 0.0625		None None	UW-16.1			
	Supports:	Skirt _		L	ugs		Legs N/A	r)	ers	N/A (Describ	e)	None	•	(N/A Where and	l how)
	Manufacturer's nufacturer's nan	Partial Da	ata Re	ports p	roperly id	•	gned by Commissio	ned Inspect	ors have bee	n furnished for t	he foll	owing items	of the report (lis	st the nam	e of part, it	em number,

FORM U1

Page 3 of 3

Manufactured by Hudson Products Corp	poration, 9660 Grunwald Road, I	Beasley, Texas, 77417
Manufacturer's Serial No. S16286-11A-B-1	CRN N/A	National Board No. 32269
We certify that the statements in this report a ASME BOILER AND PRESSURE VESSEL C	CERTIFICATE OF SHOTE CORRECT CODE, Section VIII, Division 1. U Ce	gn, material, construction, and workmanship of this vessel conform to the
Date 05/10/2018 Name	Hudson Products Corpo	ration Signed LABC
	(Manufacturer)	₹Rep résentative)
	CERTIFICATE OF SH	OP INSPECTION
I, the undersigned, holding a valid commis	sion issued by the National Board	of Boiler and Pressure Vessel Inspectors and employed by
The Hartford Steam Boiler Inspection a	nd Insurance Company, of Hart	ford, CT
have inspected the pressure vessel described	d in this Manufacturer's Data Report	on May 10, 2018 , and state that,
		essure vessel in accordance with ASME BOILER AND PRESSURE
VESSEL CODE, Section VIII, Division 1. By	signing this certificate neither the In:	spector nor his/her employer makes any warranty, expressed or implied, irthermore, neither the Inspector nor his/her employer shall be liable in any
manner for any personal injury or property da		
,,,,,,,,		
	116	Commissioner
Date <u>05/17/2018</u> Signed	or grand	Commissions: 12056, TX1622
	(Authorized Inspector)	(National Board Authorized Inspector Commission number)
	CERTIFICATE OF FIELD AS	SEMBLY COMPLIANCE
We certify that the statements made in this rep	oort are correct and that the field ass	embly construction of all parts of this vessel conforms with the requirements
of ASME BOILER AND PRESSURE VESSEL	CODE, Section VIII, Division 1. U C	ertificate of Authorization Number Expires
Date Name		Signed
	(Assembler)	(Representative)
	CERTIFICATE OF FIELD AS	SEMBLY INSPECTION
I the undersigned holding a valid commissi		of Boiler and Pressure Vessel Inspectors and employed by
i, the undersigned, holding a valid commiss	or issued by The National Board	of Bollet and Fressure vessel inspectors and employed by
have compared the statements in this Manufac	cturer's Data Report with the describ	ed pressure vessel and state that parts referred to as data items
		ction, have been inspected by me and to the best of my knowledge and
belief, the Manufacturer has constructed and a	assembled this pressure vessel in ac	cordance with the ASME BOILER AND PRESSURE VESSEL CODE,
Section VIII, Division 1. The described vessel		
		ning the pressure vessel described in this Manufacturer's Data Report. ner for any personal injury or property damage or a loss of any kind arising
from or connected with this inspection.	omployor strail be hable in any main	not for any personal injury of property damage of a loss of any fillid arising

Signed ___

(Authorized Inspector)

Commission (National Board Authorized Inspector Commission number)

FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT

Page __1 of __3 A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1.	Manufacti Mexico	ured and	l certifie	d by H	udson Proc	lucts De Me	xico, S	A. De (C.V. C	arrete	ra Villa	a De	Garcia N	0.384	0 Santa	Catarina I	Nuevo l	eon C.P	. 66350
2.	Manufacti	ured for				Hudson F	roduct	s Corpo	oration	9660	Grunwa	ald F			77417 U	.S.A			
									(Name		ress of F		(1928						
3.	Location o	of install	ation		·····	·					Unknov		st)					***************************************	
4	Tuna		HEA	DER BOX	<				MP	D-983									
٦.	Desci	ription of v	ssel part (shell, two-pl	ece head, tub	e bundle))		(Mai	nufacture	er's serie	odmun fe	or)				(CRN)		
						36-1 (FRON	NT HEA		Rev.3							rporation		20	
	(National)	Board num	ber)			(Drawing nu	umber)						,	Orawin	g prepared	by)		(Year	built)
5.	ASME Co	de, Sect	ion VIII,	Div. 1	(Edition and	2017 Addenda, if a	pplicable	(date)]			(Code	Case	number)			(Special	service p	- oar UG-120	d}}
ten	ns 6–11 in	ci. to be	comple	ted for si	ngle wall	vessels, jad	kets o	f jacke	ted ve	ssels,	shell (of h	eat exchi	-		mber of	multic	hamber	vessels.
6.	Shell: (a) Numi	er of co	urse(s) _		1		(b)	Overa	all len	gth				4.0625"				
		Coursels)			Material			Thicknes	56			g. Joint (Cat.	A)	Circum. J	oint (Cat. A.	8 & C)	Heat Tro	atment
No.	Diar	neter	Le	ngth	Spac./	Grade or Type		Nom	n.	Corr.	Тур	•	Full, Spot, None	Eff.	Type	Full, Spot, None	EH.	Temp.	Time
2		x 11.7500		0625*		16 Gr 70 N		1.625		0.0625	<u> </u>	_						1148'F	2.0 HR
2		' x 3.8125'		0625	SA-5	316 Gr 70 N		0,875		0.0625	 	-		****		****		1148'F	2.0 HR
	<u></u>																		L
	1		•	<u> </u>	<u> </u>	7	Bod	y Flange	s on Sh	elis						Bolting			
No.	Туре	iD.	OD	Flance Thk	Min Hub Thi	Meter	rial	How	Attache		cation	Nu	ım & Size	Boltin	g Material	W	sher ID, thk)	Wash	r Material
							-	1								105,		111111	
		****		****	****		•		****										
				••••			•												
		•					•					L		<u> </u>	****	<u> </u>	***		
7.	Heads: (a)					3 · F				(b)						8 F			
	Τ		Thick		nber, grade or	type) (H.T. — Radius	lime and	temp.)				- 1	Material spe	e. num	Sida to Pri		. — timo		
	Location (1 Bottom, Er		Min.	Corr.	Crown	Knucki	1 -	plical stip	Conica Apex An	1	Hemis. Radius		Flat Diameter	Co		Concave	Туре	Full, Sp	ol, EH
(a)	END		.875*	0.0625						+		+	3.81°X9.68	.+-		****		None	
(b)	END		.875°	0.0625	 						1 ===		3.81°X9.68					+	
	-						R	odu Han	ges on	Hands									
	1	T	T	T				, ,,,,,,	T	110000						Bolting			
	Location	Тура	ID	OD	Flange Thk	Min Hub Thk	M	aterial		How At	ached	Nu	ım & Sizə	Bolti	ng Materia		asher ID, thk)	Wash	er Material
(a)			<u> </u>	<u> </u>		****				***		<u> </u>	****	<u> </u>			****	_	
(b)		<u> </u>	1	1	1 1			****		***	_	<u> </u>	****	<u> </u>		<u></u>	****	L_	
	Type of ja								J	acket (closur	e _		(0	escriba as	ogee and w	ald, bar,	etc.)	
	lf bar, give			bolted,	describe o								•						
9. 1	MAWP _	(Internal)		ternal)	it max. ter	IIV	(Internal)		(External	1)	Min. d	lesiç	gn metal	temp		-20 ' F	at	1527	Psig .
0.	Impact te:	st			(Indicate yas	or no and the c	omponer	it(s) impi	act tested	d)			a1	test	tempera	ture of .		****	
1.	Hydro., pr	neu., or	comb. te	st press	ure	****			Proof	f test						••			
am	s 12 and	13 to be	comple	ted for tu	be section	ıs.													
2.	Tubeshee		SA-516 C			.3125" X 10				1.625					0625			WELDED	as kales at
				rial spec. no lal spec. no.		(Diameter)		· · · · · · · · · · · · · · · · · · ·		minal th	ickness)			(Corr. a	. allow.)			nt (welded	or Doiled))
3.	Tubes		****		•							_		•••	•			****	- 1411
	(M	aterial spec	i. no., grad	o or type:		(O.D.)			(Nomini	BI SHICKL	1092)			(Nun	10011		HAbe	(straight o	· 911

FORM U-2

No. Diameter Length Spec/Grade or Type Nom. Corr. Type Full. Spot. Eff. Trype Full. Spot. Eff. Trype Full. Spot. Full. Spot. Eff. Trype Full. Spot. Fu	
Course(s) Masterial Thickness Longs Joint (Cat. A.) Circum Joint (Cat. A.) B.C. Haat	
Diameter Length Spec_Grade or Type Nom. Corr. Type Full, Spot. Eff. Type Full, Spot. Eff. Temp Nom. Corr. Type Full, Spot. Eff. Temp Nom. Corr. Corr	Treatment
	
	—
Body Flanges on Shells	1-
Type	
Type ID OD Flange Thi Min Hub Thi Material How Attached Location Num & Size Boiling Material (OD, ID, Ibi) Washer Washe	
Type 10 OD Flangs Thi Min Hub The Material Mow Attached Location Num & Size Bolding Material (OD, 10, 1th) Waterial W	
Heads; (a)	har Mater
Heads: (a)	
Heads: (a)	****
Heads: (a)	
Cocation (Top. Thickness Radius Eliptical Conical Radius Diameter Convex Conceve Type Full.	
Location (Top, State Thickness Radius Eliptical Conical Homis, Radius Diameter Convax Concave Type Full, Apex Angle Radius Diameter Convax Concave Type Radius Concave Type	no i
	ne En
Location Type ID OD Flange Thi Min Hub Thi Meterial How Attached Num & Size Bolting Meterial (OD, 10, thi) Washer	
Location Type ID OD Flange Thi Min Hub Thit Meterial How Attached Num & Size Bolting Material (Washer (OD, ID, thit) Washer (O	
Location Type ID OD Flangs Thk Min Hub Thk Meterial How Attached Num & Size Bolting Material (OD, ID, thk) Washer OD, ID, thk OD, ID,	
Location Type ID OD Flangs This Min Hub Thit Mesterial How Attached Num & Size Bolting Meterial (OD, ID, this) Was ID ID ID ID ID ID ID I	
MAWP	sher Mate
MAWP	****
MAWP	****
Hydro., pneu., or comb. test pressure	-
Hydro., pneu., or comb. test pressure	
Nozzles, inspection, and safety valve openings:	
Purpose Inlet, Outlet, Drain, etc. No. Diemeter or Size Type Nozzle Flange Nom. Corr. Material Nozzle Flange Itlnt Nozzle Nozzle Flange Itlnt Nozzle Nozzle Flange Itlnt Nozzle Nozzle Flange Itlnt Nozzle Itlnt Nozzle Itlnt Nozzle Itlnt Nozzle Itlnt Nozzle Itlnt	
Control Cont	
Drain, etc.] No. 0' 5ite Type Noztle Flange Nom. Corr. Material Noztle Flange (Internal Noztle (Internal Noztle Internal Noztle (Internal Noztle Internal Noztle Internal Noztle (Internal Noztle Internal Noz	ocation
NOZZLE IN 2 NPS-8 SA-234 SA-105 0.906* 0.0625 UW16.1(a) 2-4 (6)	p. Open.)
	••••
Identification of part(s)	
Name of Part Quantity Line No. Mfr's, Identification No. Mfr's, Drawing No. CRN National Board No	****
Name of Part Quantity Line No. Mfr's, Identification No. Mfr's, Drawing No. CRN National Board No	
	Year Bu
	10ar Bu
Supports: Skirt Lugs Legs Others Support (2) Attached Welded Cover (Number) (Where and how)	

(07/17)

FORM U-2

Manufacturer's Serial	No	MPD-983	CRN	****	National Board No
			CERTIFICATE OF SI	HOP/FIELD COMPLIAN	NCE
				all details of materi CODE, Section VIII, D	ial, construction, and workmanship of this pressu Division 1.
U or PRT Certificate	f Authoriza	tion number	37163	Expires	December 19, 2019
Date April-13-2018	Name	Hudson Prod	ucts De Mexico, S.A. (Manufacturer)	De C.V. Signe	ed (Representative)
			CERTIFICATE OF S	HOP/FIELD INSPECTI	ON
The H	artford Stea ressure ves	m Boiler Inspections sel part described	on and Insurance Con d in this Manufacture	npany r's Data Report on	or and Pressure Vessel Inspectors and employed to Hantlord C.T. April 12, 2018
					ucted this pressure vessel part in accordance wi certificate neither the inspector nor his/her employ
makes any warranty	, expressed nor his/her	d or implied, con employer shall l	cerning the pressur	e vessel part describ	ed in this Manufacturer's Data Report. Furthermor njury or property damage or a loss of any kind arisin
Date APR-13-18	•		Ki .	Commissio	ons
	-	(A)	uthanized inspectant		(National Board Authorized Inspector Commission number)

NB# 32269

J.A.P.4 Apr-19-18

R. Lauf APR-19-18

FORM U-2 MANUFACTURER'S PARTIAL DATA REPORT

Page __1_ of __3_

A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

									-									***************************************		
	fanufacti Mexico	ured a	and (ertifie	d by Hu	idson Prod	ucts De Me	exico, S	.A. De C).V. C	Carret	era Villa	De	Garcia N	0.384) Santa	Catarina I	luevo L	eon C.P.	66350
2. N	fanufacti	ured 1	for -				Hudson I	Product		ration	9660		ald R			77417 U	.S.A			
3 1	nantian a	e ima	alla.	lan.						11401110	onu ai	Unknov								
3. L	ocanon c	JE INS	tana	mon						•	(N	sme and a								
4. 7	Гуре			HEA	DER BOX		bundle))				D-99									
	Desci	iption	of ves	sel part (s							er's se	rial numbe	ar)	l locales	0			CRN)	20	
-	(National	Board r	numbe	::)		3102	86-1 (BAC (Drawing n		DER) R	ev.3						g prepared	rporation by)	-	20'	
5	SME CO	do S	actic	o VIII	Div. 1		2017											***		
J. ,	ASIVIE CO	ue, o	CONC)(1 VIII,	DIV. 1	[Edition and	Addenda, if a	pplicable	(date)]			(Code (Case	number)			ISpecial	service p	er UG-1201	d)Ì
tem	s 6–11 in	cl. to	be c	omplet	ed for si	ngle wall s	vessels, jai	ckets o	f jacket	ted ve	ssel	s, shell d	of he	at exch	anger	s, or cha	mber of	multic	hamber	vessels.
6. \$	Shell: (a) Nu	mbe	r of co	urse(s) _		1		(b)	Over	all le	ngth				4.0625				
		Cour	so(s)				Material		1	Thickne	\$\$		Long	. Joint (Cat	. A)	Circum, J	oint (Cat. A	B & C)	Heat Tro	eatment
No.	Diar	meter		Le	ngth	Spec./	Grade or Type	9	Nom		Corr.	Тур	e '	Full, Spot, None	EH.	Тура	Full, Spot, None	Eff.	Temp.	Time
2	84.0625*				625"	***************************************	16 Gr 70 N		1.625		0.062				****				1148'F	2.0 HR
2	84.0625	x 3.8	125"		0625*	SA-5	16 Gr 70 N		0.875		0.062	5 ····			****				1148'F	2.0 HR
	<u> </u>							n			-41-					L			***************************************	
			Т				T	рос	ly Flange	s on ar	TI T						Bolting			
No.	Туре	ID		OD	Flange Thk	Min Hub Thi	Mate	rial	How	Attach	ed i	Location	Nu	m & Size	Boltin	g Material		sher ID, thk)	Wash	er Material
		***				****		••		****				****		****				***
	****										\blacksquare			****	 		 	****		
			-		****					****	\dashv		-	****	┼─		-		_	****
		·	4_		N 516 C-	70 N 114	B ' F	2011						CA.51	6 6 . 7	0 NL 11.	48 'F	. 20	nbe	
7. 1	Heads: (a)					type) (H.T	····			_ (o)	(1				or type) (H.)
	Location (Top.		Thick	ness		Radius	E	liptical	Conic	cal las	Hemis,	П	Flat		Side to Pr	essure		Category	A
	Bottom, E		N	tin.	Corr.	Crown	Knuci	1		Арех А		Radius		Diameter	C	onvex	Concave	Type	Full, Sp None	01. EH.
(a)	END		0.	875°	0.0625							****	:	3.81"X9.6	3"		****			
(b)	END		0,	875*	0.0625	<u> </u>		·	<u> l</u>		.]	****		3.81"X9.68	3-		••••	****		
									Body Flan	iges on	Head	5								
													-		T		Bolling V	/asher	- 1	
(a)	Location	+	/D8	10	QD	flange Thk	Min Hub Thk	- 1	Material	\dashv	How	Attached	Nu	m & Size	ROIS	ing Materia	100	, ID, thk)	Wasi	ner Materia
(6)		+					****	+-		-+			╁		+		1		_	••••
8.	Type of ja	cket									Jacke	t closur	e _			Naceriba As	ogea and v	ald har	etc 1	
	lf bar, giv	e din	nens	ions. II	f bolted,	describe c	r sketch.		~							_ ,,,,,,,,	-91- 411d V	, we',		
9. (MAWP _	1527			dernal)	at max. te	mp	130° F		(Extern	all	Min.	desi	gn meta	l temp)	-20°F	at	1527	7 Psig
0.	Impact te	st _				Hadicara ves	or no and the								at test	temper	ature of		****	
1.	Hydro., p	neu	or c	omb. t	est press	•	or no and the	•			of tes	it				•				
						be section	ns.													
2.	Tubeshee	et			3r 70 N		2.3125" X 1					25"				0625		*****	WELDED	
		{S	tation	ary (mate	erial spec. no	o.l) (Diar	neter (subject	to press	.)}	(No	omina 	thickness) -)		(Coi	r. allow.)	ı	Attachme	ent (welded	or bolted)
		ī	Floati	ng (mater	ial spec. no.)]	(Diamete	1)		(Nom	inal th	ickness)				allow.)		A)	ttechment)
13.	Tubes	daterial	spec.	no., grad	de or type)		(O.D.)			(Nomi		ckness)				nber)		Түр	straight o	or U))

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FORM U-2

Manu	factured	by_	Huds	on Produ	cts D	e Mexi	co, S.A	. De	C.V. C	arreter	a V	lla De (Garcia	a No	.384	0 Santa C	atarin	Nue	vo Le	on C.P.	66350 M	/lexico	
Manu	facturer	's Se	rial N	o		MPD-9	92		CF	N		•••				Nationa	l Boar	d No.					
								bers	s of jacke							at exchar	ngers.		***************************************				
14. 3	heli: (a			ursets						- (0) O	erall lo											
			seis)			-		Aater				Thickne		-		ong. Joint (C		_	T	Full, Spo	A, B & C)		eatment
No.		meter	-	Leng	ın		Spec./C		or Type		No		Corr.	+	Type	None		+	_	None	+	Temp.	Time
													****	+	****		 			****		****	
••••														+	****		+	+					
										Body	Flang	es on Si	alls										
						T		Г			T .		T		Ţ					Bolting			
No.	Тура	ID	\perp	OD FI	ange Ti	ık Min I	lub Thk		Material		Ho	w Attach	ed L	ocatio.	n	Num & Size	Bol	ing Ma	terial	100	Vasher), ID, (hk)	Wash	or Material
••••		•			****		••••									****							
	****	••••			••••			<u> </u>	****		<u> </u>	••••	\bot		\perp	****	\bot	****			***		
••••					••••			 	****		┼		+	****	\dashv	****							
									***********		<u> </u>						1						
5. F	leads: (a	}		(Material	рес. ли	mber, g		type)	(H.T. — tin	ne and t	emp.)		_ {b)		(Material	spec. nu	mber,			H.T. — tim	and temp	p.)
	Location (700		Thickne	55	$\neg \vdash$		Radi	45	T eur -	tical	Carri	T					Side	to Pre	ssure	T	Categor	/A
	Bottom, E		Mi	n.	Corr.	T	Crown	\neg	Knuckle		tio	Apex A			mis. dius	Flat Diamet	er	Conve		Concave	Туре	Full, Sp Non	
(a)				.		_		一		 .		t				+	_	****	十		†	1	
(b)									****			· · · ·		-			T		十			†	-
										Bo	dv Ba	nges on	Heads										
		1							T		-,	302 (7					Bolting			
	Location	T\	po	ιD	OD	Flan	ge Thk	Min H	ub Thk	Ma	terial		How A	ttach	ed	Num & Size	Во	lting M	aterial		Washer D, ID, thk)	Wasi	ner Material
(a)	****	<u> </u>	-	••••		<u> </u>					••••		•	•••	\perp	****							
(b)	****	<u>ا</u>		****	****	نــــــــــــــــــــــــــــــــــــــ		•					•					****		<u></u>	****		
6. N	IAWP _	(Interr	- nal)	(Exteri	all	at ma	x. tem	р	(intern	al)		xternal)	N	/lin.	desi	gn metal t	emp.			-	_ at		
7. In	pact tes			(4///4/					••••								at tesi	tem	nerati	ire of			
									d the comp														
	ydro., pr ozzles, i:											Proof	test										
	Purpose	Tapec		T	T	ive ob	T	·														т	
tin	let, Outlet,		No.	Diame or Si		Туре	\vdash	- N	Mat ozzie	erial	Else		-	-	hickne	Rein	forceme faterial	nt _		achment		1	ation
	ZZLE VE	NT	1	NPS		CPLNC	;+-		105	†—	Flan		0.4		0.08		10(0/10)	-+	Nozi UW16		Flange	 	. Open.)
	ZZLE OL		2	NPS	_	***	1		-234	T	SA-1		0.9		0.00		••••		UW16		2-4 (6)	 	
	****		****			****			***			-	-			-]	***				****		
			****	<u> </u>		••••			•••	_	***	-	<u> </u>	••		•		[•••	·			****
	****					****	-			↓	***		 "				••••		•••		••••		****
-	****				-		+-			+	•••		-						***			 	
				<u> </u>	1				***	1	•••	•	<u> </u>		<u> </u>	··		1	•••	<u>: </u>	****	<u> </u>	
D. Id	entificat			(s)																· · · · · · · · · · · · · · · · · · ·			
	Na	me of	Part		Qu		Line N	10.	Mfr's. Id	entific	ation	No.	Mf	r's. C)rawi	ng No.	<u> </u>	CRN		Natio	nal Board	No.	Year Built
		****			+			4					·····		••••		 	****			****		
		****			-		****	\dashv		•							<u> </u>	••••				-+	****
, ,					<u></u>		L				^\ <u>-</u>		Sur	ppor	(2)			····		Lw	elded Co	ver	
	upports: emarks	SKIT	(Yes	or no)	Lugs	Num	beri	Leg	(Numb	er)	Othe	er s	1	Desci	(2)	At	tache	·			Where and		····
					+.				00 /0 Nan														

Design Calculations by other ,Impact Test Exempt Per UG-20 (I), Non-Lethal Service. Hydrostatic test not performed. Manufactured According Section VIII Div 1...* COUPLING CL6000. ***RFWN CL900.

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FORM U-2 V

nufacturer's Serial No	MPD-992	CRN	***	National Board No.	
	(CERTIFICATE OF SHO	OP/FIELD COMPL	IANCE	
Ve certify that the statem essel part conform to the				terial, construction, and workn II, Division 1.	nanship of this pressur
or PRT Certificate of Auth	orization number	37163	Expires	December 19, 2019	
ate April-17-2018 Name	Hudson Produc	cts De Mexico, S.A. D (Manufacturer)	De C.V. Si	gned Bepres	entative)
		CERTIFICATE OF SH	OP/FIELD INSPE	CTION	
	g a valid commission Steam Boiler Inspection			oiler and Pressure Vessel Inspe of Hartfor	ctors and employed b
ave inspected the pressure	e vessel part described i	in this Manufacturer'	's Data Report on	April 19, 2011	3
nd state that, to the best	of my knowledge and	d belief, the Manuf	acturer has con	structed this pressure vessel (part in accordance with
				is certificate neither the Inspec	
				ribed in this Manufacturer's Da	
		ilable in any manne	er for any person	al injury or property damage or	a loss of any kind arisin
rom or connected with this	•	18V		/ Am . A . an	
ate <u>AP2-19-18</u> Sig	nned .	horsed inspectori	Commis	ssions	•

(07/17)