	F	PO#			FOR	M U-1 MANU	FACTURE	R'S DAT	A REP	ORT	FOR PRESS	JRE \	/ESSE	LS	_				
_	Tag and					by the Provision						•							
1. N	1anufacture	d an	d certifie	d by Tay	lor For	ge Engineer	ed Systen	ns, Inc.,						na, 741	17, US	SA			
2. N	1anufacture	d for	KP EI	NGINEE	RING, 5	5555 OLD JA	CKSONVI		/Y, TYI	LER,		3, U							
3. L	ocation of i	nstal	lation <b>L</b>	JNKNOV	VN			(N	iame an	id addi	ress of Purchas	er)							
0			_							•	e and address)								
4. T	ype (Ho	rizon	Horizon tal, vertica	<b>tal</b> al. or sphe	re)		(Tank, sepa	HEAT EX			xch., etc.)			(	Manufa	1203-0 icturer's se		ber)	
	,			,	-,				,		, , , ,		20	`					c
-			N/A (CRN)				1203-03-A1 REV 5 (Drawing number)							3039 I Board number)					
5.	ASME Cod	e, Se	ection VI	II, Div. 1		20	015/ N/A				N/A				N/A				
						Edition and Add	enda, if appli	cable (da	ite)]		(Code Ca	ase Nu	mber)		[S <sub>l</sub>	pecial Ser	vice per l	JG-120	(d)]
	Items 6-11	incl.	to be co	ompleted	for sing	le wall vessels	s, jackets of	jacketed	l vesse	ls, sh	ell of heat exc	chang	ers, or	chambe	er of m	ultichami	ber vess	els.	
6. S	hell: (a) Nu	ımbe	er of cour	se(s)	3	_	(b) Ove	rall length	h			20' 1	.375"				_		
	Со	urse(	s)		Ma	aterial	Thic	kness		Lo	Long. Joint (Cat. A)		Circum. Joint (Cat. A,			A, B, & C) Heat Tre		Treatm	ent
No.	Diamete		Lenç			ade or Type	Nom.	Corr			ull, Spot, None	Eff.		ull, Spot,		Eff.	Temp.		Time
2	26.0" ID	)	8' 0.1			516-70	.500"	0.12		1	SPOT	.85	1	SPO		.85	N/A		N/A
1	26" ID		4' 0.6	25"	SA	516-70	.500"	0.12		1	SPOT	.85	1	SPO		.85	N/A		N/A
	1			1	1	ĺ		Body Flan	ges on S	Shells					B	Solting			
No.	Туре		ID	OD	Flange Thk	Min Hub Thk	Mate	erial	Ho Attac		Location			Washer	er (OD, ID, Washer thk) Material				
1	RFWN		26.0"	32.250"	3"	1/2"	SA105		WELD	ED	END	24 - 1	-1/8"	SA193	B7	N/A		N/A	
7. H	Heads: (a)_	(1)	Material sp	oec. numb		<b>16-70</b> or type) (H.T	time and tem	ıp.)			(b) (Ma	terial s	spec. nu	mber, gra	N/A ade or t	ype) (H.T.	- time ar	nd temp	0.)
	Location (Top, Thickness			Radiu	IS	Elliptica	al Conid	cal Ape			al Flat Side to Pressure				Category A				
	Bottom, En	ds)	Min.	С	orr.	Crown	Knuckle	Ratio	А	Angle	Radius	Diameter Convex		Concave	Туре			ne Eff.	
(a)	END		0.355"		25"	N/A	N/A	2:1		N/A	N/A	_	N/A		Х	S		one	NA
(b)	N/A		N/A	N	I/A	N/A	N/A	N/A		N/A	N/A		N/A			N/A		N/A	N/A
				ı			E	Body Flanç	ges on F	leads					-	) - I4:			
No.	Location		Туре	ID	OD	Flange Thk	Min Hub Thk	Mate	erial	Н	ow Attached	Nui	n & Size	e Boltii	ng Mate	Bolting Berial Wash Brial ID,	er (OD, thk)	Vasher	Material
(a)	N/A	N/A		N/A	N/A	N/A	N/A	N/A		N/A				N/A		N/A	<del>`</del> _	N/A	
8. Ty	/pe of jacke	et				N/A				Jacke	et closure		/5	, ,,,	N/				
If	bar, give di	men	sions: if h	nolted de	escribe (	or sketch						NI/A	`	escribe a	as ogee	e & weld, b	ar, etc.)		
		111011	0.01.0, 11 .	oonoa, a	3001150						Min	N/A		al tamp					
). M <i>A</i>	AWP	364			-15 psi	at max. tem	· <u> </u>	0 °F		150	) <sup>-</sup> F	. aesi	gn mei	al temp		-20 °F	at _	364	psi
0. Ir	mpact test	(Inte	rnal)	(1	External)	[Indicate yes		NO		Extern	•				at	test tem	perature	of	N/A
1. H	ydro., pneu.,	or co	mb. test p	ressure	Hvdro	. ,	Proof te		iii(5) iiii	ipaci it	esteuj		N	/A					
	ems 12 and			_		•	_	-											
	ubesheet		.5 25 551	(1) SA5					2.50"		0.250'		0.250"			BOL	TED		
	_		[Statio	nary (mate	erial spec	. no.)]	[Diameter	(subject to	press.)	)]	(Nominal thickr	iess)	(0	Corr. allov	w.)	Attach	ment (we	elded or	r bolted)
	_			N/.		\1	N/A				N/A		N/A				N,		
	halle a c		[Float	ting (mate	rıaı spec.	no.)]	(	Diameter)			(Nominal thickr	iess)	((	Corr. allov	W.)		(Attacl	iment)	
3. I	ubes _	SA214 (Material spec. no., grade or type)									0.109" (Nominal thickr					ype (Stra		U)]	

NB Number 3039

14. Shell: (a) No. of course(s)  Course(s)						erial	Thickness			0' 13.6875" Long. Joint (Cat. A)			Circum. Joint (Cat. A, B, & C)			Heat Treatment	
No.			Len	gth	Spec./Gra		Nom.	Corr.		Type Full, Spot, None			II, Spot, None	Eff.	Temp.		me
1			0' 13.6	•		SA516-70		0.500" 0.125"		SPOT	.85	1	SPOT	.85	1150°	11	HR
				ı				5 . 5									
							Body Flang		IS				Bolting				
No.	RFWN		ID	OD	Flange Thk	Min Hub Thk	Mate	erial	How Attached	Location	Num	ı & Size	Bolting Material	Washer (OD, ID thk)		Was Mate	
			26"	32.250"	2-5/8"	1/2"	SA105		WELDED	END	N/A		SA193-B7	N/A		N/A	
			26"	32.250"	3"	1/2"	SA105		WELDED	END	N/A		SA193-B7	N/A		N/A	
5. F	leads: (a)_	(M	Material s			D SA105 or type) (H.T	time and tem	) ar		(b)	aterial s	spec num	N/A ber, grade or		- time a	nd temp )	
	Location (To			Thickness	1, 9	Radio		Elliptical	Conical A				ide to Pressur		Catego		
	Bottom, End		Min.		orr.	Crown	Knuckle	Ratio	Angle		- 1	. –	Convex Concave			Spot, None	E
(a)	END		2.375"	''' 0. <i>-</i>	125"	N/A	N/A	N/A	N/A	N/A	3	2-1/4"		N/A	1	N/A	N/
									·								
					1			Body Flange	es on Head	IS				Bolting			
				1		l	Min Hub		rial	How Attached	ow Attached Num &		Bolting Material Washe		er (OD		
10.	Location	Т	Гуре	ID	OD	Flange Thk	Thk	Mate	liai	Tiow / titaorica	Nu	m & Size	Bolting Mat	erial Wasii	thk)	Washer M	later
A	N/A	N/A		N/A	N/A	N/A	Thk N/A	N/A	N	/A	N/A		N/A	N/A	I	N/A	
6. N	N/A  //AWP	N/A 279 (Intern	<b>psi</b>	N/A -15 (Exte	N/A  psi a  [Inc	N/A t max. temp.	Thk  N/A  200 (Interior	°F nal)  NO compone	200 (Exteri	or o	N/A design	metal te	n/A	N/A	at	N/A 279 p	
6. N 7. II	N/A  //AWP  mpact test  Hydro., pne	279 j (Interr	psi nal)	N/A  -15 (Exte	n/A  psi mal)  [Incessure	N/A t max. temp.	Thk  N/A  200 (Interior	°F nal)  NO compone	200 (Exteri	<b>°F</b> Min. (	N/A design	metal te	n/A	N/A 20 °F	at	N/A 279 p	osi
7. li	N/A  //AWP  mpact test  Hydro., pne	N/A  279   (Interr	psi nal) or comb	-15 (Exte	n/A  psi mal)  [Incessure	N/A t max. temp.	Thk  N/A  200 (Interior of the content of the conte	N/A  °F  nal)  NO  compone si	200 (Exteri	or Min. or Min	N/A design	metal te	N/A empat	N/A 20 °F test temp	at	<b>279</b> g	osi
7. li	N/A  MAWP mpact test Hydro., pne lozzles, ins ie (Inlet, Outlet,	N/A  279   (Interr	psi nal) or comb	N/A  -15 (Exte	n/A  psi mal)  [Incessure	N/A  t max. temp.  dicate yes or  Hydro	Thk  N/A  200 (Interior of the content of the conte	N/A  °F  nal)  NO  compone si	200 (Exterior nt(s) imparation proof test	or Min. or Min	N/A design	metal te	N/A empat N/A Attachmen	N/A 20 °F test temp	at erature	N/A  279 g  of N	osi //A
6. N 7. II 8. H	MAWP mpact test Hydro., pne lozzles, ins le (Inlet, Outlet, etc.)	N/A  279   (Interr	psi_nal) or comb on, and	-15 (External points) (External points) (Externa	psi amal) allowerssure alve open	N/A  t max. temp.  dicate yes or  Hydro  ings:	Thk  N/A  200 (Interior of the content of the conte	N/A  °F  nal)  NO  compone si	200 (Externation (	or. Min. of Mi	N/A design	metal te	N/A empat N/A Attachmen Nozzle	N/A  20 °F  test temp	at erature	<b>279</b> g	osi //A
6. N	N/A  MAWP  mpact test  Hydro., pne  lozzles, ins  e (Inlet, Outlet, etc.)  SH INLET	N/A  279   (Interr	psi_nal) or comb	N/A  -15 (Exte	psi a [Independent of the property of the prop	N/A  t max. temp.  dicate yes or  Hydro  ings:  Noz	Thk  N/A  200 (Interior of the content of the conte	N/A  "F nal)  NO compone si  Flange SA105	nt(s) impa Proof test Nozzl Nom.	" Corr.  OA  OF  Min. of  Corr.  O.125"	N/A design	metal te	N/A attachmen Nozzle UW16.1C	N/A  20 °F  test temp  t Details Flange  WELDED	at erature	N/A  279 g  of N	osi //A
6. N. 7. II 8. H. 9. N. III Pos	MAWP mpact test Hydro., pne lozzles, ins le (Inlet, Outlet, etc.)	N/A  279   (Interr	psi_nal) or comb on, and	N/A  -15 (Exte	psi amal) allowerssure alve open	N/A  N/A  t max. temp.  dicate yes or  Hydro  ings:  Noz  Noz  N SA1	Thk  N/A  200 (Interior of the content of the conte	N/A  Property of the second of	nt(s) impa Proof test Nom. 0.378	" Min. contested]  Thickness Corr.  O.125"  O.125"	N/A design	metal te	N/A empat N/A Attachmen Nozzle	N/A  20 °F  test temp	at erature	N/A  279 g  of N	osi //A
63. N	N/A  MAWP mpact test Hydro., pne lozzles, ins le (Inlet, Outlet, etc.)  SH INLET SH OUTLET	N/A  279   (Interr	psi nal) or comb on, and No.	n/A  -15 (Exter  o. test presented as a fety various Size  6"  6"	psi arnal) arnal) arnal) Figure 2 alve open RFW RFW	N/A  t max. temp.  dicate yes or  Hydro  ings:  Noz  Noz  No SA1  N SA1  N SA1	Thk   N/A   200   (Internal land and the p. at 363 ps   Material land   21e   06B	N/A  "F nal)  NO compone si  Flange SA105	nt(s) impa Proof test Nozzl Nom.	" O.125" O.125"	N/A  design  Reinforce Mater	metal te	N/A attachmen Nozzle UW16.1C UW16.1C	N/A  20 °F  test temp  t Details Flange WELDED WELDED	at erature	N/A  279 g  of N	osi //A
7. II	N/A  MAWP  mpact test Hydro., pne lozzles, ins le (Inlet, Outlet, etc.)  SH INLET SH OUTLET CH INLET	N/A 279   (Interr	psi nal) or comb on, and No.	n/A  -15 (Extermination of the safety various Size 6" 6" 6" 6"	psi alve open Typ RFW RFW	N/A  N/A  t max. temp.  dicate yes or  Hydro  ings:  Noz  Noz  No SA1  N SA1  N SA1  N SA1	Thk  N/A  200 (Interior of the point of the	N/A  Property of the second of	Proof test  Nozzl Nom. 0.378 0.378	" O.125" O.125" O.125"	N/A  Reinforce Mater NTEG NTEG	metal te	N/A  at  N/A  Attachmen  Nozzle  UW16.1C  UW16.1C  UW16.1C	N/A  20 °F  test temp  t Details Flange  WELDED  WELDED  WELDED	at erature	N/A  279 g  of N	osi //A
6. N. 7. II 8. H 9. N II I I I I I I I I I I I I I I I I I	MAWP mpact test Hydro., pne Jozzles, ins ie (Inlet, Outlet, etc.) SH INLET SH OUTLET CH INLET	279   Control of the	psi nal) or comb on, and No.	n/A  -15 (Exter  o. test pressafety value or Size  6"  6"  6"	psi alive open  RFW RFW RFW	N/A  t max. temp.  dicate yes or  Hydro  ings:  Noz  Noz  No SA1  N SA1  N SA1  N SA1  N SA1	Thk  N/A  200 (Interior of the content of the conte	N/A  PF nall)  NO compone si  Flange SA105 SA105 SA105 SA105	No.	" O.125" O.125" O.125"	N/A Reinforce Mater NTEG NTEG	metal te	N/A  at  N/A  Attachmen  Nozzle  UW16.1C  UW16.1C  UW16.1C  UW16.1C	N/A  20 °F  test temp  t Details Flange  WELDED  WELDED  WELDED  WELDED	at erature	N/A  279 g  of N	osi //A
6. N. 7. III 8. H. 9. N. S. S. S. S. S. S.	M/A  MAWP  mpact test  Hydro., pne Mozzles, ins e (Inlet, Outlet, etc.)  SH INLET  SH OUTLET  CH OUTLET  H AUXILIAR	N/A 279   Orall   Oral	psi nal)  or comb on, and No. 1 1 1 1 1	n/A  -15 (External presentation of the safety variety of the safety of the s	psi alive open  RFW RFW RFW RFW	t max. temp.  dicate yes or  Hydro  ings:  Noz  Noz  Noz  Noz  Noz  Noz  Noz  No	Thk  N/A  200 (Interior of the property of the	Flange SA105 SA105 SA105 SA105	Nozzl Nom. 0.378 0.378 0.250	"F Min. of tested]  act tested]  "Thickness Corr."  " 0.125"  " 0.125"  " 0.125"  " 0.125"  " 0.125"  " 0.125"	N/A  Reinforce Mater NTEG NTEG NTEG NTEG	metal te	N/A  at  N/A  Attachmen  Nozzle  UW16.1C  UW16.1C  UW16.1C  UW16.1C  UW16.1C	N/A  20 °F  test temp  t Details Flange WELDED WELDED WELDED WELDED WELDED WELDED	at erature	N/A  279 g  of N	osi //A

(Where and how) (Yes or no) (Number) (Number) (Describe)

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, Manufacturer's name, and identifying number):

## N/A

22. Remarks

Length of tubes: 20' 0"

IMPACTS EXEMPT PER UG-20 (f) AND UCS-66

over pressure protection per UG-125 (a) (2)

		CERTIFICATE OF SHOP re correct and that all details of design CODE, Section VIII, Division 1. U Certif	, material, construction, and		of this vessel conform to the Expires March 12, 2017
Date 07/07/	/2016 Name	Taylor Forge Engineered System	ms, Inc.	Signed	718 Pall
		(Manufacturer)		'	(Representative)
		CERTIFICATE OF SHOP	INSPECTION		
I, the undersigr	ned, holding a valid commis	sion issued by the National Board of	Boiler and Pressure Vess	el Inspectors	and employed by
		nd Insurance Company of Connec			-4
·	·	d in this Manufacturer's Data Report or	June 3, 2016	, and state th	•
VESSEL CODE concerning the	, Section VIII, Division 1. By pressure vessel described in	Manufacturer has constructed this press signing this certificate neither the Inspo this Manufacturer's Data Report. Furth amage or a loss of any kind arising fron	ector nor his/her employer n nermore, neither the Inspect	nakes any war or nor his/her e	ranty, expressed or implied,
Date07	7/07/2016 Signed <b>7</b>	(Authorized Inspector)	Commissions: [N		SAB, OK713 (incl. endorsements)]
We certify that the of ASME BOILER	e statements made in this rep R AND PRESSURE VESSEL Name	CERTIFICATE OF FIELD ASSE port are correct and that the field assen CODE, Section VIII, Division 1. U Cert	nbly construction of all parts	of this vessel ber	Expires
Date	Name	(Assembler)		Signed	(Representative)
		(/ leadingle)			(Hoprosonialivo)
		CERTIFICATE OF FIELD ASSE	MBI Y INSPECTION		
I, the undersigne	ed, holding a valid commiss	ion issued by The National Board of		el Inspectors	and employed by
belief, the Manufa Section VIII, Divis the Inspector nor Furthermore, neit	, not incl acturer has constructed and a sion 1. The described vessel his/her employer makes any	cturer's Data Report with the described uded in the certificate of shop inspection assembled this pressure vessel in account was inspected and subjected to a hydrowarranty, expressed or implied, conce employer shall be liable in any manner	on, have been inspected by ordance with the ASME BOII rostatic test of rning the pressure vessel do	me and to the LER AND PRE By sescribed in this	best of my knowledge and SSURE VESSEL CODE, signing this certificate neither Manufacturer's Data Report.
Date	Signed	(Authorized Inspector)	Commission[N	lational Board	(incl. endorsements)]

2555109 exe: v6.4.28