		5074			FO	RM U-1 MANU	IFACTURE	R'S DATA	A REI	PORT	FOR PRESSI	JRE \	VESSE	LS	_				
		NA		A	As Require	ed by the Provision	ons of the ASI	ME Boiler a	and Pr	essure '	Vessel Code Ru	ıles, S	ection V	III, Divi	ision 1	Correcte	ed Copy	Page 1	1 of 3
1. M	lanufacture	d and	certified	_{d by} S	choelle	r-Bleckmann	Nitec Gml	oH, Haup	otstra	asse 2	, Ternitz, A-	2630,	Austr	ia					
2 M	lanufacture	d for	Stami	carbo	n BV, S	ittard, NETHE	RLANDS		(Na	me and	address of Ma	nufact	urer)						
						Geneva, Neb		(N	ame a	nd addr	ess of Purchas	er)							
3. L	ocation of i	nstalla	ation <u> </u>	ortige	iii Loo,	Geneva, Neb	Iaska			(Name	and address)								
4. T	ype (Ho	rizonta	Vertica	l I. or spl	here)		(Tank, sepa		actor essel.	. heat ex	(ch., etc.)				(Manufa	8796 acturer's s		er)	
	(-			,	,	Г	WG-175074-	-	,	,	, , , ,		13	39	(2018	
_	ACME Cod		N/A (CRN)	I Div	1		(Drawing no						tional Bo		mber)		,	Year bui	lt)
5. /	ASME Cod	e, se	CUON VII	I, DIV.	· —	[Edition and Ad	015/ N/A denda, if appl	icable (da	te)]		(Code Ca	56-1 ase Nu	ımber)		[S	pecial Ser	N/A vice per U	G-120(d)]
	Items 6-11	incl.	to be co	mplete	ed for sin	gle wall vessel	s, jackets o	f jacketed	vess	sels, sh	ell of heat exc	chang	ers, or	chami	ber of m	nulticham	ber vess	els.	
6. Sł	nell: (a) Nu	mber	of cours	se(s)	1		(b) Ove	rall length	ı			9.3	05M				_		
		urse(s	<u> </u>			/laterial		kness			ng. Joint (Cat. A	<u>, </u>			t (Cat. A,	. ,		Treatmer	
No.	Diameter		Leng 9.305			Frade or Type r see Remarks	Nom. 102.46	Corr 0	-	N/A	Full, Spot, None Remarks	Eff.	Type F	Rem	ot, None arks	Eff.	Temp.	Tir N/	
								Body Flan	aes oi										
No.	Туре		ID	OD	Flang				Н	łow	Location			l B	E Bolting	Bolting Washer	(OD, ID,	Wash	ner
					Ink					ached			n & Size	М	aterial	th	ik)	Mate	
N/A 7 1	N/A Heads: (a)		N/A	N/A	N/A	N/A	N/A		N/A		N/A	N/A		N/A		N/A		N/A	
/. г	neaus. (a)	(M				- 540°C / 300 e or type) (H.T		np.)			(b) (Ma	terial s				0°C / 30(type) (H.T.		d temp.)	
	Location (T			hicknes		Rad		Elliptica		nical Ape					Pressure		Categor	•	
(-)	Bottom, En	ds)	Min.	_	Corr.	Crown	Knuckle	Ratio		Angle	Radius			Convex	Concave	. 7 -		ot, None	
(a) (b)	Top Bottom		305 mm		0 mm 0 mm	N/A N/A	N/A N/A	N/A N/A		N/A N/A	N/A N/A		80 mm 80 mm		<u> </u>	N/A N/A		I/A I/A	N/A N/A
, ,				<u> </u>				Body Flang	es on	n Heads						1	<u> </u>		
	Location	1	Гуре	ID	OE) Flange Thi	Min Hub	Mate			ow Attached					Bolting	er (OD, ,,		
			,				Ink		JIIGI			Nui	m & Size		Iting Mate	eriai ID,	thk) V	asher M	aterial
a)	N/A	N/A		N/A	N/A	N/A	N/A	N/A		N/A				N/	Α	N/A	N	/A	
8. Ту	pe of jacke	t				N/A				_Jacke	et closure		([)escribe		I/A e & weld, l	nar etc.)		
lf l	bar, give di	mens	ions; if b	olted,	describe	or sketch						N/A	,	,000,110,	o do ogo.	o a wola, i	our, 0.0.,		
. M <i>A</i>	WP ;	230 ba	r(a)		N/A	at max. ter	np. 22	20 °C		N/	A Min	. desi	gn met	al tem	p.	-28.8 °C	at	230 bai	r(a)
0 1		(Inter			(External		(Inte	rnal)		(Extern	al)							_	
U. In	npact test					Yes material : [Indicate yes	or no and the								at	test tem	perature	ot <u>-28</u>	.8°C
1. Hy	/dro., pneu.,	or con	nb. test pr	essure	Hydro	at 300.5 bar(g)	_ Proof to	est					N	/A					
	ems 12 and	1 13 to	o be con	•		sections.		NI/A			NI/A			NI/A			N/		
∠. I	ubesheet_		[Station		N/A aterial spe	ec. no.)]	[Diameter	N/A (subject to	press	s.)]	N/A (Nominal thickr	iess)	(0	N/A Corr. all	ow.)	Attacl	N/A nment (we		olted)
	_		· · ·		N/A			N/A			N/A			N/A			N/A		
з т	ubes		Į⊦Ioat	•	iterial spec	c. no.)]	((Diameter)			(Nominal thickr	iess)	(C	Corr. all	,		(Attach	_	
J. I			(Materia		N/A no., grade	or type)		N/A (O. D.)			N/A (Nominal thickr	iess)		N/A (Numb			Ν/ / Γype (Stra)]

							F	ORM U	1								Page	e 2 of 3
Manı	ufactured by	,	Schoe	ller-Bled	kmann	Nitec Gmbl	H, Hauptst	rasse 2,	Ternitz, A	-2630, Aust	ria							
Manı	ufacturer's S	Serial	No. 87	96			CRN	N/A			Nat	ional B	oard No	139				
	Items 14-18 Shell: (a) No			,		er chambers o	,	essels or erall lengt		f heat excha	ngers.							
	Co	urse(s	<u>.</u>		Ma	aterial	Thic	ckness	Lo	ng. Joint (Cat.	A)	Circu	ım. Joint	(Cat. A, I	3, & C)	He	at Treatn	nent
No.	Diameter	•	Lenç	gth	Spec./Gr	ade or Type	Nom.	Corr.	Type F	ull, Spot, None	e Eff.		-ull, Spot		Eff.	Tem	j	Time
	N/A		N/A	A	I	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A		N/A
						1		Body Flang	es on Shells	3								
No.	Туре		ID	OD	Flange Thk	Min Hub Thk	Mate	erial	How Attached	Location	Nun	n & Size		Iting terial	olting Washer th	. ,		asher aterial
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.	Heads: (a)_	(1)	Naterial si	nec numb		I/A or type) (H.T	time and ten	nn)		(b)	laterial	snec nu	mher ar	N/A	ype) (H.T.	- time :	and tem	2)
	Location (T	<u>`</u>		Thickness	1, 9,440	Radio		Elliptical	Conical Apo	ex Hemispher		Flat	Side to F		,, , ,		gory A	,
	Bottom, En	, . L	Min.		orr.	Crown	Knuckle	Ratio	Angle	Radius		iameter	Convex		Туре	`	Spot, No	ne Eff.
N/A	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		N/A	N/A
				·			E	Body Flang	es on Heads	· · · · · · · · · · · · · · · · · · ·								•
	Location	-	Гуре	ID	OD	Flange Thk	Min Hub					Num & Size		Bolting Material Wash		her (OD, Washer Mater		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	thk)	N/A	
	MAWP					at max. temp.		N/A			design	i metal	temp		est temp	_		N/A
18.	Hydro., pn	eu., c	or comb	o. test pr					Proof test				N	I/A				
19.	Nozzles, in:	spect	ion, and	l safety v	alve ope	enings:												
	oose (Inlet, O	•		Diameter	or	<u> </u>	Materi	al	Nozzl	e Thickness	Reinfo	rcemen	t A	ttachme	nt Details		Location	(Insp.
	Drain, etc.)		No.	Size	Ту	pe No	ozzle	Flange	e Nom	n. Corr.	Ma	iterial	No	zzle	Flange		Ope	·
	NH3 Inlet N1		1	3"	Weld	End SA 790 U	INS S32906		7.62 n	nm 0 mm			UW-1	6.1(v-1)				
	Gas Inlet N2		1	3"	_	End SA 790 U			7.62 n					6.1(v-1)				
	iquid Inlet N litional Nozzle		1 1	3" ed I I-4	Weld	End SA 790 U	JNS S32906		7.62 n	nm 0 mm			UW-1	6.1(v-1)				
Auu	ilionai Nozzie	3 - 00	C Allacin	cu 0-4														
20.	Supports:	Skirt	Ye	s Lug	s <u>N</u>	'A Legs	N/A	Othe	ers	N/A			- Atta	ched	Welde	d to b	ottom	head
	Manufacturer's ufacturer's nai			eports prop		nber) fied and signed b	(Numbe by Commissio	′	ors have been	(Describe furnished for t	,	ving item	s of the r	eport (lis	`		nd how) item nur	
	N/A Remarks																	
Ιt	tem 6) iltilaye:	sh:	ell is	s made	of:													
	nner shel																	
<u> </u>	layers 7	7.94	mm tl	hick /	SA 72	_												

 $\frac{\overline{\text{Outer shell 6 mm thick / SA }516/70}}{\text{full MT of final seam}}$

FORM U1 Page 3 of 3

Manufacturer's Serial No. 8796	CRN N/A	National Board No.	139									
CERTIFICATE OF SHOP COMPLIANCE We certify that the statements in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. U Certificate of Authorization Number 15904 Expires July 3, 2019												
Date 01/21/2019	Name Schoeller-Bleckmann Nite	c GmbH Signed	Miles									
	(Manufacturer) CERTIFICATE OF SH	OD INSPECTION	(Representati ∜ e)									
	CERTIFICATE OF SH	DP INSPECTION										
, , , ,	a valid commission issued by the National Board	of Boiler and Pressure Vessel Inspectors	and employed by									
have inspected the pressure	Co. KG, of Essen, Germany vessel described in this Manufacturer's Data Report	t on March 7, 2019 , and state th	nat,									
VESSEL CODE, Section VIII concerning the pressure vess	and belief, the Manufacturer has constructed this pr , Division 1. By signing this certificate neither the In sel described in this Manufacturer's Data Report. Fury or property damage or a loss of any kind arising f	essure vessel in accordance with ASME BOI spector nor his/her employer makes any war urthermore, neither the Inspector nor his/her	ranty, expressed or implied,									
Date <u>03/07/2019</u>	Signed // (Authorized Inspector)	Commissions: (National Board Authorized Ins	11328 spector Commission number)									
	CERTIFICATE OF FIELD AS made in this report are correct and that the field ass SURE VESSEL CODE, Section VIII, Division 1. U C	sembly construction of all parts of this vessel	conforms with the requirements Expires									
Date !	Name	Signed										
	(Assembler)		(Representative)									
	CERTIFICATE OF FIELD AS	SEMBLY INSPECTION										
I, the undersigned, holding a	valid commission issued by The National Board	of Boiler and Pressure Vessel Inspectors	and employed by									
belief, the Manufacturer has consection VIII, Division 1. The dispector nor his/her employer	is in this Manufacturer's Data Report with the describ , not included in the certificate of shop inspectors, not included in the certificate of shop inspectors, and assembled this pressure vessel in acceptable was inspected and subjected to a permakes any warranty, expressed or implied, concertictor nor his/her employer shall be liable in any man expection.	ction, have been inspected by me and to the coordance with the ASME BOILER AND PRE ressure test of	best of my knowledge and ESSURE VESSEL CODE, gning this certificate neither the anufacturer's Data Report.									
Date	Signed(Authorized Inspector)	Commission (National Board Authorized	I Inspector Commission number)									
		•	,									

Schoeller-Bleckmann Nitec GmbH, Hauptstrasse 2, Ternitz, A-2630, Austria

Manufactured by

3200312 exe: v6.3.106 U1-16

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET

As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

. Manufactured and	d certifi	ed by Sc	hoeller-Blo	eckmann Nitec Gı	mbH, Haupts	strasse 2,	Ternitz,	A-2630, Aust	ria				
						(Ivallie aliu a	uuress or iv	ianuiaciuiei)					
2. Manufactured for	Stan	nicarbon I	BV, Sittard	I, NETHERLANDS		e and address	of Purchas	er)					
3. Location of installa	-4:	Fortigon	LCC Con	nova Nobracka	,			,					
b. Location of install	alion	Tortigen	LCC, Gen	ieva, Nebraska		(Name a	nd address)					
Type	V.	ution!		1	Decetor				9706				
I. Type (Hori	zontal, ve	rtical ertical, or sphe	Reactor (Tank, separator, heat exch., etc.) (Manufactu							8796 urer's serial number)			
N/	Δ			DWG-175074-00	Rev 4			139		2018			
(CR	RN)		_	(Drawing number	r)	_		(National Board n	umber)	(Year built)			
Data Ro Item Nu							Rema	rko					
- Item Nu	IIIDEI						INCIIIa	11/2					
ditional nozzles, insurpose (Inlet, Outlet,		Diameter or	ty valve ope	Materi		Nozzle TI	-	Reinforcement	Attachment Details	Location (Insp.			
Drain, etc.)		Size 4"		Nozzle	Flange	Nom.	Corr.	Material	Nozzle Flange	Open.)			
quid/Gas Outlet N4 Manway N6	<u>1</u> 1	ID 32"	Weld End Pad	SA 790 UNS S32906 SA 765/IV		8.56 mm 332 mm	0 mm 0 mm	SA 765/IV	UW-16.1(v-1) UW-16.1(f-4)	Top Head			
HP Vent N7	1	1 1/2"		SA 790 UNS S32906	SA 105	5.08 mm	0 mm		UW-16.1(v-1)	Top nead			
Certificate of Authority Date 01/21/2019		on: Type <u>"</u> Name	<u>'U"</u>	No. 159		hH	E	Expires July 3,	2019 M1,	W			

Signed

(Authorized Inspector)

Date 03/07/2019

Signed

Commissions

(Representative)

11328

(National Board Authorized Inspector Commission number)