(Floating (material spec, no.))

.3. Tuhes SA1/9
(Material spec. no., grade or type)

SA179

(Diameter)

19.05mm

(O.D.)

## ASME

107556

Mir. Representative: V. J. 617 Date: APR. 19/3015 Authorized Inspector Date: Apt. 18, 2015

[Attachment (welded or bolled)]

U

[Type (Straight or U)]

(Cott. allow)

(Corr. allow)

231 (Number)

PAGE 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, Division 1 Ilsung Coporation #74 Daejeong-Ro, Onsan-Eub, Ulju-Gun, Ulsan 689-892, Republic Korea. 1. Manufactured and certified by (Name and address of Manufacturer) SHELL CANADA ENERGY 400 4AVE, S.W., BOX 100, STATION M, CALGARY, ALBERTA T2P 0J4 2. Manufactured for (Name and address of Purchaser) CARMON CREEK EXPANSION IN PEACE RIVER COMPLEX, ALBERTA, CANADA 3. Location of installation (Name and address) Heat Exchanger (Tank, separator, [kt. vessel, heat exch., etc.) (Horizontal, vertical, or sphere) VP-SG07-E10140-001 Rev.7 2014 W8069.2 (Drawing number) (National Board number) 5. ASME Code, Section Vill, Div. 1 2010 ED, 2011 ADD (July.01,2011) N/A (Code Case number) (Special service per UG-120(d)) [Edition and Addenda, if applicable (data)] Items 6-11 incl. to be completed for single wall vessels, fackets of facketed vessels, shell of heat exchangers, or chamber of multichamber vessels. 7497mm \_\_\_\_ (b) Overall length \_\_\_ 6. Shell: (a) Number of course(s) \_ Long, Joint (Cat, A) Material Thickness Circum, Joint (Cat. A, B & C) Course(s) Nom. Cort. No. Diameter Longth Spec/Grade or Type Full, Spot, None Eff. Type Full, Spot, None Eff. Temp. 14mm Full 1.0 626°C 1.1Hr. 2 I.D 690mm 2600mm SA516-70(+1) 1.5mm Full 1.0 1 14rom 1.0 1.0 SA516-70(+1) 1.5mm Ful. 626°C 1.1Hr. I.D 690mm 2297mm (BLANK) Body Flanges on Shells Bolting Washer Flange Thk Min Hub Thk Bolting Material (OD, ID, Ihk) Type OD No. 14mm (.3) Single, butt weld End 36.1 1/8"-8UN×370L SA320-L7M 58, 32, 6mm 878mm 85mm (.2) 690mm 1 (BLANK) SA516-70(+1) / H.T-1.1Hr&626°C (+13) (b) 7. Heads: (a) \_ (Material spac, number, grade or type) (H.T.-time and temp.) (Material spec, number, grade or type) (H.T.-time and temp) Thickness Radius Side to Pressure Category A Location (Top. Hamispherical Eliotical Conical Apex Angle Diameter Bottom, Ends) Corr. Knuckle Convex Concave Type Full, Spot, None Eff. YES 12.75mm 1.5mm YES (a) End (b) (BLANK) Body Flanges on Heads Boling Num & Ske OD Flange Thk Min Hub Thk Material How Attached Bolting Material Washer Material ID (a) (BLANK) (b) Jacket closure 8. Type of Jacket (Describe as ogse and weld, bar, etc.) N/A If bar, give dimensions If bolted, describe or sketch. at max. temp. \_\_ 200°C Min. design metal temp. -45°C at 2814kPa . 9. MAWP \_\_\_2814kPa\_\_\_\_\_ F.V 200,C (Internat) (External) (Internal) (External) YES(SHELL-A02) at test temperature of \_\_\_\_ -45°C 10. Impact test [Indicate yes or no and the component(s) impact tested] 4300kPa 11. Hydro., preug or combit test pressure Proof test Items 12 and 13 to be completed for tube sections. 690mm SA765-II(+1) 84mm Bolted 12. Tubesheet [Stationary (malerial spec. no.)] [Diameter (subject to press.)]

(Nominal thickness)

(Nominal thickness)

(Nominal thickness)



FORM U-1 (Cont'd)

Mir, Representative: S. D. E. 7 Date: AFR. 19/20/3Authorized Inspector Date: APR. 18.20/5

PAGE 2

Course(s)				Material		Thickness		Long. Joint (Cat. A)			Circu	ım. Joint (Cat. A, B & C)		Heat Trestment			
Diameter		Length	Spec/Grade or Type		Nom,	Corr.	Type	Full, Spol, N	Spot, None Eff.		Гуре	Full, Spot, None		Eff.	Temp.	Tim	
	I,D 690mm	1	470mm	SA	516-70(+1)	12mm	1.5mm	1	Full	1	.0	1	Full		1.0	626°C	1,11
	(ELANK)		Frank C		1000												
							Body Flan	ges on Sh	ills								
	T	1	1	T		T	T			1			В	olting			
	)					1	1						Boting	12 K 🖘	Washer		
No.	Type	ID	00	Flange Thk	The second of th	-	- Comment	utached butt weld	Location End	_	um & Si		Materia	-	OD, ID, INK) , 32, 6mi	The second second second	
1	(*2)	690mm 690mm	878mm 878mm	120mm	12mm	(*3)	-	buit weld	End	30,1	(+15)	N×290	(•15)	_	(+15)	-	15)
AN		Consin	OT CTAIN	TESTIMA:		1			-	1			1				
	1											200				T	
				CAZCE HIL	Vu 1: 606	C 1 11/e			.i .							(+)	
. 11	eads: (a)_		(Material s	SA765-II(*1	)/H. 1-020 rade of Noel (	I.I.T. II.Ttme and te	mp.)	,	o)	(Mai	ertal spe	ec. numb	er, grade or	type) (H.	Ttime and	temo.)	
	Location (To	о. Т	rickness	Radiu		service at the service of	Conical	Hemis	pherical	Flat	T :	Side to	Pressure			egory A	
	Bottom, End		Con.	Crown	Knucke	Ratio A	slgnA xac	Bi	dius	Diameter	Co	ouvex.	Concave	Туре	Full,	Spot, None	
1)	End	83mi	n 1.5mn	1 -			•		-	878mm		-			L.	-	L
I																	1
							Body Flu	ges en He	ads								
		T					Ť			1			8	otling	-		
						}	1	í						W	/asher		
-202	Location Type		D	<u>C0</u>	Flange Thk	Min Haib Thi	M2	lerial_	How Attache	Mached Num &		ite Bolin	o Material	(OD,	(OD, ID, If-k)	Washer I	Mate
(a) (b)	(BLANK)	-					-{			-		-				-	
						200°C (internation) CHANNEL-A											
. In	pact test			(indicat-	YES(C	HANNEL-A	O!) Kill (spaci	tested			et to	est ter	nporature				
'. In	pact test			(indicat-	YES(C		O!) Kill (spaci	tested			et to	est ter	nporature				
. Im	pact test	A, ar con	而. test	(indicat-	YES(C	HANNEL-A d the component 4000 kPa	O1) Hal (opact	tested) Proof	est		et to	est ter	nperature -	of			
'. Im I. H I. N	ydro., processor ozzles, ins	pection, o	no. test	tindicate pressure ty valve ope	YES(C	CHANNEL-A d the componen d the componen 4000 kPa	O1) Kisi kapaci	Proof No	est	53	at to	est ter	Attache	of	-A	5°C Locat	ion
. Im	ydro., price ydro., price ozzles, ins Purpose let, Outlet, Dr	pection, and ain, etc.)	test	tindicate pressure by valve upe Diameter or Size	YES(0 a yes of no an enings:	CHANNEL-A d the componen 4000 kPa  Mat Nozzle	O1) Itili (mpact	Proof No	est	55	at to	est for	Attachr Nozzło	of	talls lange	5°C Locat (Insp. 0	ion
. Im	ozzles, ins Purpose lei, Outlet, Dr. HELL SIDE	pection, of even pection, of etc.)	test no.	ly valve ope Diameter or Size	YES(Ca yes of no acceptings:  Type Cl. 390 lwn	HANNEL-A d the component 4000 kPa  Mai Nozzle . (*6)	Q1) (it) (apact	Proof No Nor 26,95	est	ss I	et to	ement tell	Attache Nozzie (+4)	of	talls lange	Locat (Insp. O	ion
. Im . H . N (In	ozzles, ins Purpose lei, Outlet, Br HELL SIDE	pection, and an etc.) INLET DUTLET	No.	Indicators pressure  ly valve operator or Size  DN 150  DN 150	YES(C) a yes of no acceptings:  Type  Cl. 300 lwr  Cl. 300 lwr	HANNEL-A d the component 4000 kPa  Mail Nozzle (16) (16)	O1) l(s) (apac) estal Flance (+6)	Proof No Nor 26,95	est	ss   I	et to	ement fall	Attach: Nozzio (-4)	of	talls lange	5°C Locat (Insp. 0	ion
. Im	pact test ydro., prec ozzles, ins Purpose lei, Outlet, Dr. HELL SIDE ( ELL SIDE (	pection, of each pectio	No.	tindicate pressure ly valve ope Diameter or Size DN 150 DN 150 DN 100	YES(C) a yes or no acceptings:  Type Cl. 300 lwr Cl. 300 lwr Cl. 300 fwr	HANNEL-A d the component 4000 kPa  Mai Nozzie L (+6) L (+6)	01) Itis impact shall Flange (-6) (-6)	No   No   26,95   22,25	est	ss I	et to Reirloroe Mater NHERI NHERI	est ter	Altachr Nozzle (+4) (+4)	ment Del	4	Locat (Insp. O	lon
In H	pact test ydro., proceed ozzles, ins Purpose lei, Outlet, Br HELL, SIDE ELL, SIDE C ELL, SIDE C	pection, and etc.) INLET DUTLET PRAIN(-7)	No.	Understand pressure  Ly valve operation of Size  DN 150  DN 150  DN 100  DN 100	YES(C) a yes or no are enings:  Typa Cl. 300 lwr Cl. 300 fwr Cl. 300 fg	Mai Nozzie  (+6) (+6) (+8)	01) Its impact  arial  Flance  (-6)  (-6)	No   No   No   26,95   22,25   8,56	est	ss   ref.	et to	ement fall	Attach: Nozzie (-4) (-4) (-4)	of	4	Locat (Insp. O	lon
In I	pact test ydro., proceed ozzles, ins Purpose lei, Outlet, Br HELL SIDE ELL SIDE C ELL SIDE C ELL SIDE C UBE SIDE	pection, and etc.) INLET DUTLET PAIN(-7) /ENT(-7) INLET	No.	Undicate pressure  Ly valve operation of Size  DN 150  DN 150  DN 160  DN 100  DN 100	YES(C enings: Type Cl. 300 lwr Cl. 300 lwr Cl. 300 fwr Cl. 300 fg Cl. 300 fg	Mail   Nozzie   (+6)   (+6)   SA333-6	01) Ital impact  arial  Flange  (+6)  (+6)  (+6)	No   No   No   26,95   22,25   8,566   11,13	est	ss dr. mm mm mm mm smm smm s	et to	ement fall ENT ENT ENT ENT ENT 70(-1)	Attachr Nozzie (-4) (-4) (-4) (-4) (-4)	of	4 tails tanga	Locat (Insp. O	ion
I. Im (In SSH) SH	pact test ydro., proceed ozzles, ins Purpose lei, Outlet, Br HELL SIDE ELL SIDE C ELL SIDE C UBE SIDE UBE SIDE UBE SIDE	pection, and etc.) INLET DUTLET PRAIN(-7) /ENT(-7) INLET DUTLET	No.	Undicate pressure  Ly valve operation of Size  DN 150  DN 150  DN 160  DN 100  DN 100  DN 100  DN 100	YES(C a yes or no acceptance)  Type Cl. 300 lwr Cl. 300 lwr Cl. 300 fg Cl. 300 fg Cl. 300 fg Cl. 300 fg	Mai Nezzie (+6) (+6) (-8) SA333-6 SA333-6	(-6) (-6) (-6)	No Nor 26,95 22,25 8,566 11,13	est	mm mm mm smm smm smm smm smm smm smm sm	at to Mater NHERI NHERI NHERI NHERI A516-	ENT ENT ENT FO(-1) 70(-1)	Attachs Nozzio (-4) (-4) (-4) (-4) (-4) (-4) (-4)	of	4	Locat (Insp. O	ion
. Im . H . N (In SH SH TU	pact test ydro., proceed ozzles, ins Purpose lei, Outlet, Br HELL SIDE ELL SIDE C ELL S ELL	pection, and etc.) INLET DUTLET PRAIN(-7) INLET DUTLET SUTLET SUTLET RAIN(-12)	No.	Undicate pressure  ly valve operative or Size  DN 150  DN 150  DN 100	YES(C a yes of no are enings:  Type Cl. 300 lwr Cl. 300 lwr Cl. 300 fwr Cl. 300 fg Cl. 300 fg Cl. 300 fg Cl. 300 lwr	Mai	01) Ital impact  arial  Flange  (+6)  (+6)  (+6)	No   No   No   26,95   22,25   8,566   11,13	est	ss I	at to Reinforce Mater NHERI NHERI NHERI NHERI A516-7	ent for ement fal ENT ENT ENT FNT 70(-1) ENT	Attachr Nozzie (-4) (-4) (-4) (-4) (-4)	of	-4  tanga (+5) (+5)	Locat (Insp. O	ion
. Im . H . N . N . SH . SH . SH . TU	pact test ydro., pres ozzles, ins Purpose lei, Outlet, Dr HELL SIDE ELL SIDE ( ELL SIDE	pection, and etc.) INLET DUTLET PRAIN(-7) INLET DUTLET PRAIN(-17) INLET DUTLET PAIN(-12) ENT(-12) ENT(-12)	No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Undicate pressure  by valve operation of Size  DN 150  DN 150  DN 100	YES(C e yes or no at the prings:  Type  Cl. 300 lwr  Cl. 300 lwg  Cl. 300 lfg  Cl. 300 lwr  Cl. 300 lfg	Mai Nozzle (+6) (+6) (-8) (-8) (-8)	(-6) (-6) (-6) (-6) (-6)	Proof  No 26,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27,95 27	est	ss I	Refriorce Mater NHERI NHERI NHERI A516-7 NHERI NHERI	ENT ENT ENT 70(-1) ENT ENT	Attachr Nozzie (-4) (-4) (-4) (-4) (-4) (-4) (-4) (-4)	of	-4 latis langa (+5) (+5)	Locat (Insp. O	lon
SH TU	pact test ydro., pre- page 191, Outlot, Dr. HELL SIDE CELL SIDE CELL SIDE CELL SIDE VUBE SIDE DE SIDE DE SIDE DE SIDE DE SIDE DE SIDE VUBPORTS: S	pection, (ain, etc.) INLET DUTLET PAIN(-7) /ENT(-7) INLET DUTLET PAIN(-12) ENT(-12) ENT(-12) ENT(-12) ENT(-12)	No.	Undicate pressure  Ny valve operation of Size  DN 150  DN 150  DN 100  Lugs N/	YES(C a yes of no are contings:  Type Cl. 300 lwr Cl. 300 fwr Cl. 300 fg A Legs	HANNEL-A d the component d the component 4000 kPa  Mai Nozzie (+6) (+6) (+6) (+8) SA333-6 SA333-6 (+6) (+8) N/A (Nomber)	01) Ittl (apact)  Flance (+6) (+6) (+6) (+6) (+6) (+6) (+6) (+6)	Proof  No Nor 26,95 26,95 22,25 8,566 11,13 16,65 8,74	est	ss , , , , , , , , , , , , , , , , , ,	at to Mater NHERINHERINHERINHERINHERINHERINHERINHERI	ement fall ENT ENT ENT FO(-1) FO(-1) ENT ENT	Attache Nozzło (+4) (+4) (+4) (+4) (+4) (+4) (+4) (+4)	of	-4 latis langa - (-5) (-5) (-5) D TO 5 see and ho	Locat (Insp. O	ion pen.)
In . H N In . S. S S. H. T. T. U. T. U S	pact test ydro., pres ozzles, ins Purpose lei, Outlet, Dr HELL SIDE ( ELL SID	pection, (ain, etc.) INLET DUTLET PAIN(-7) VENT(-7) INLET DUTLET PAIN(-12) ENT(-12)	No.	Undicate pressure  Ny valve operation of Size  DN 150  DN 150  DN 100  DN 100  DN 100  DN 100  DN 100  UN 100  UN 100  Lugs N/  Others	YES(C a yes or no are presented as yes yes or no are presented as yes or no are presented as yes or no	Mai   Nozzie   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)	01) Ittl topact  Flange (+6) (+6) (+6) (+6) (+6) (+6) (+6) Others	Proof  No Nor 26,95 28,95 22,25 8,566 11,13 16,65 8,74	est	mm mm smm smm smm smm smm smm smm smm s	at to Mater NHERINHERINHERINHERINHERINHERINHERINHERI	ement fall ENT ENT ENT FO(-1) FO(-1) ENT ENT	Attache Nozzło (+4) (+4) (+4) (+4) (+4) (+4) (+4) (+4)	of	-4 latis langa - (-5) (-5) (-5) D TO 5 see and ho	Locat (Insp. O	ion pen.)
Im . H N In . SH SH. TUIL TUIL TUIL . S	pact test ydro., pres ozzles, ins Purpose lei, Outlet, Dr HELL SIDE ( ELL SID	pection, (ain, etc.) INLET DUTLET PAIN(-7) VENT(-7) INLET DUTLET PAIN(-12) ENT(-12)	No.	Undicate pressure  Ny valve operation of Size  DN 150  DN 150  DN 100  DN 100  DN 100  DN 100  DN 100  UN 100  UN 100  Lugs N/  Others	YES(C a yes or no are presented as yes yes or no are presented as yes or no are presented as yes or no	HANNEL-A d the component d the component 4000 kPa  Mai Nozzie (+6) (+6) (+6) (+8) SA333-6 SA333-6 (+6) (+8) N/A (Nomber)	01) Ittl topact  Flange (+6) (+6) (+6) (+6) (+6) (+6) (+6) Others	Proof  No Nor 26,95 26,95 22,25 8,566 11,13 16,68 8,74 5  y Command ide	est	mm mm smm smm smm smm smm smm smm smm s	at to Mater NHERINHERINHERINHERINHERINHERINHERINHERI	ement fall ENT ENT ENT FO(-1) FO(-1) ENT ENT	Attache Nozzło (+4) (+4) (+4) (+4) (+4) (+4) (+4) (+4)	of	-4 latis langa - (-5) (-5) (-5) D TO 5 see and ho	Locat (Insp. O	ion pen.)
Im . H N In . SH SH. TUIL TUIL TUIL . S	pact test ydro., pres ozzles, ins Purpose lei, Outlet, Dr HELL SIDE ( ELL SID	pection, (ain, etc.) INLET DUTLET PAIN(-7) VENT(-7) INLET DUTLET PAIN(-12) ENT(-12)	No.	Undicate pressure  Ny valve operation of Size  DN 150  DN 150  DN 100  DN 100  DN 100  DN 100  DN 100  UN 100  UN 100  Lugs N/  Others	YES(C a yes or no are presented as yes yes or no are presented as yes or no are presented as yes or no	Mai   Nozzie   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)	01) Ittl topact  Flange (+6) (+6) (+6) (+6) (+6) (+6) (+6) Others	Proof  No Nor 26,95 28,95 22,25 8,566 11,13 16,65 8,74	est	mm mm smm smm smm smm smm smm smm smm s	at to Mater NHERINHERINHERINHERINHERINHERINHERINHERI	ement fall ENT ENT ENT FO(-1) FO(-1) ENT ENT	Attache Nozzło (+4) (+4) (+4) (+4) (+4) (+4) (+4) (+4)	of	-4 latis langa - (-5) (-5) (-5) D TO 5 see and ho	Locat (Insp. O	ion pen.)
In . H N In . S. S S. H. T. T. U. T. U S	pact test ydro., pres ozzles, ins Purpose lei, Outlet, Dr HELL SIDE ( ELL SID	pection, (ain, etc.) INLET DUTLET PAIN(-7) VENT(-7) INLET DUTLET PAIN(-12) ENT(-12)	No.	Undicate pressure  Ny valve operation of Size  DN 150  DN 150  DN 100  DN 100  DN 100  DN 100  DN 100  UN 100  UN 100  Lugs N/  Others	YES(C a yes or no are presented as yes yes or no are presented as yes or no are presented as yes or no	Mai   Nozzie   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)   (+6)	01) Ittl topact  Flange (+6) (+6) (+6) (+6) (+6) (+6) (+6) Others	Proof  No Nor 26,95 26,95 22,25 8,566 11,13 16,68 8,74 5  y Command ide	est	mm mm smm smm smm smm smm smm smm smm s	at to Mater NHERINHERINHERINHERINHERINHERINHERINHERI	ement fall ENT ENT ENT FO(-1) FO(-1) ENT ENT	Attache Nozzło (+4) (+4) (+4) (+4) (+4) (+4) (+4) (+4)	of	-4 latis langa - (-5) (-5) (-5) D TO 5 see and bo	Locat (Insp. O	ion pen.)
Im H	pact test ydro., process ozzles, ins purpose lei, Outlet, Dr. HELL SIDE ELL SIDE C ELL SIDE OF ELL SIDE OF BE	pection, and etc.) INLET DUTLET RAIN(-7) INLET DUTLET PAIN(-12) ENT(-12) kirt er's Part (list the r	No.  1  1  1  1  1  1  1  1  Indicate of	Undicate pressure  by valve operation or Size  DN 150  DN 150  DN 100  Lugs N/  DN 100  Reports propart, item residition.	YES(C a yes of no are enings:  Type Cl. 390 lwr Cl. 300 flwr Cl. 300 flg A Legs sed operly ide number, M	Mai Nozzie  (+6) (+6) (+6) (-6) (-6) (-8) (Nomber) ntilled and sanufacturer's	01) Ittl topact    Flance   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-	Proof  No Nor 26,95 26,95 22,25 8,566 11,13 16,65 8,74 6 y Command ide N/A	est	mm mm smm smm smm smm smm smm smm smm s	at to Mater NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHER NHERI NHER NHER NHERI NHER NHER NHER NHER NHER NHER NHER NHER	ent	Attachr Nozzie (-4) (-4) (-4) (-4) (-4) (-4) (-4) (-4) (-4) (-4) (-4) (-4) (-4)	ment Det	-4 latis langa - (+5) (+5) (-5) (-5) D TO 5 see and for	Locat (Insp. O	ems
SH TUI	pact test ydro., process ozzles, ins purpose lei, Outlet, Dr. HELL SIDE ELL SIDE C ELL SIDE OF ELL SIDE OF BE	pection, and etc.) INLET DUTLET RAIN(-7) INLET DUTLET PAIN(-12) ENT(-12) kirt er's Part (list the r	No.  1  1  1  1  1  1  1  1  Indicate of	Undicate pressure  by valve operation or Size  DN 150  DN 150  DN 100  Lugs N/  DN 100  Reports propart, item residition.	YES(C a yes of no are enings:  Type Cl. 390 lwr Cl. 300 flwr Cl. 300 flg A Legs sed operly ide number, M	Mai Nozzie  (+6) (+6) (+6) (-6) (-6) (-8) (Nonten) ntilled and sanufacturer's	01) Ittl topact    Flance   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-	Proof  No Nor 26,95 26,95 22,25 8,566 11,13 16,65 8,74 6 y Command ide N/A	est	mm mm smm smm smm smm smm smm smm smm s	at to Mater NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHERI NHER NHERI NHER NHER NHERI NHER NHER NHER NHER NHER NHER NHER NHER	ent	Attachr Nozzie (-4) (-4) (-4) (-4) (-4) (-4) (-4) (-4) (-4) (-4) (-4) (-4) (-4)	ment Det	-4 latis langa - (+5) (+5) (-5) (-5) D TO 5 see and for	Locat (Insp. O	pen.)
SH SH TU	pact test ydro., process ozzles, ins purpose lei, Outlet, Dr. HELL SIDE ELL SIDE C ELL SIDE OF ELL SIDE OF BE	pection, and etc.) INLET DUTLET PRAIN(-7) INLET DUTLET PAIN(-12) ENT(-12) kirt Over er's Part (list the r	No.  I I I I I I I I I I I I I I I I I I	Undicate pressure  ly valve operation or Size  DN 150  DN 150  DN 100  DN 100  DN 100  DN 100  DN 100  UN 100  Lugs N/A  Dataset prepare, item resident.  -None,0.7	YES(C a yes of no are enings:  Type Cl. 300 lwr Cl. 300 fwr Cl. 300 fg	Mai Nozzie  (+6) (+6) (+6) (-6) (-6) (-6) (-8) (-8) (-8) (-8) (-8) (-8) (-8) (-8	01) Ittl ispact    Flange   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-6)   (-7, P)   (-	No Nor 26,95 22,25 8,56 11,13 16,65 8,74 S y Command ide N/A	est  Comm 300  mm 300	mm smm smm smm smm smm smm smm smm smm	at to attribute to the state of	ENT ENT FOR ENT ENT ENT FOR ENT	Attacher Nozzie (-4) (-4) (-4) (-4) (-4) (-4) (-4) (-4)	ment Del	-4 latis langa - (-5) (-5) D TO Sere and hor the foll 10UNC×	Cocat (Insp. 0	ems
SH TUTU S SH	pact test ydro., process ozzles, ins Purpose let, Outlet, Br HELL SIDE C ELL SIDE C ELL SIDE C ELL SIDE OF BE	pection, and etc.)  INLET DUTLET PRAIN(-7) PRAIN(-7) INLET DUTLET PAIN(-12) Rent(-12) Rent(-12) Rent(-12) Rent(-13) Rent(-14)	No.  1  1  1  1  1  1  1  Indicate the state of the state	Undicate pressure  Ny valve operation or Size  DN 150  DN 150  DN 100  DN 100  DN 100  DN 100  DN 100  UN 100  Lugs N/A  Ditum  Reports propart, item resident.  -None,0.7  9. Namalled in systia.	YES(C a yes of no are enings:  Type Cl. 300 lwr Cl. 300 lwr Cl. 300 lwr Cl. 300 lwr Cl. 300 lg Cl. 300 lg Cl. 300 lwr Cl. 300 lg Cl. 300 lwr Cl. 300 l	CHANNEL-A d the component 4000 kPa  Mai Nozzie (+6) (+6) (+6) SA333-6 SA333-6 (+6) (+6) Nonten ntilled and seanufacturer's above App.2 LF2 CL.1(-1) ocated on til	01)  Ittl ispact  Flance (-6) (-6) (-6) (-6) (-6) Others signed by a name,  Fig.2-4( -7, P ne shell.	Proof  No Nor 26,95 26,95 22,25 8,56 11,13 16,65 8,74 5 y Command ide N/A 6) ressure r	est  Comm 300  mm 300	mm smm smm smm smm smm smm smm smm smm	at to attribute to the state of	ENT ENT FOR ENT	Attachr Nozzio (-4) (-4) (-4) (-4) (-4) (-4) (-4) (-4)	ment Del	-4 latis langa - (-5) (-5) D TO Sere and hor the foll 10UNC×	Cocat (Insp. 0	ems



FORM U-1 (Cont'd)

National Board Number: 2025

Mfr. Representative: V. J. W. 7 Date: AFK. 19/2015

Authorized Inspector Date: APS, 18, 2015

PAGE 3

	CERTIFICATE OF SHO	OP COMPLIANCE							
We certify that the statements in this r	eport are correct and that all details	of design, material, constr	ruction, and workmanship of this vessel						
conform to the ASME BOILER AND PR	ESSURE VESSEL CODE, Section VIII	I, Division I.							
U Certificate of Authorization Number	32,997 Expires DEC.	04, 2016	1						
Date Alk 19/2-015 Name	ILSUNG CORPORATION.	Signed	1117 (26)						
			(Representative)						
	CERTIFICATE OF SHO								
			Vessel Inspectors and the employed by						
	Global Standards								
have inspected the pressure vessel descr									
state that, to the best of my knowledge		1,31							
PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed									
or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.									
Date Apr. 18. 2015 Signed S.JAI	(Authorized Inspector)	minissions	National Board (incl. endorsements)]						
	CERTIFICATE OF FIELD ASS								
We certify that the statements in this repo		[[전대] 보드다는 그렇게 보이고 있으면 뭐라고 있었다.	this vessel conforms with the requirements						
OF ASME BOILER AND PRESSURE VESSEL CO.		THE CONTRACTOR OF THE PROPERTY	The state of the s						
Date Name	150	Signed							
Date Name	(Assembler)	Oigned	(Representative)						
	CERTIFICATE OF FIELD AS								
I, the undersigned, holding a valid co	mmission issued by the National B	oard of Boiler and Pressu	re Vessel Inspectors and employed by						
21	have compared the statements in	this Manufacturer's Data Br	and with the described pressure vessel						
, have compared the statements in this Manufacturer's Data Report with the described pressure vessel at state that parts referred to as data items, not included in the certificate of shop inspection, have been									
inspected by me and to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance									
with the ASME BOILER AND PRESSURE VESSEL CODE, Section MI, Division 1. The described vessel was inspected and subjected to a									
hydrostatic test of By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or									
implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer									
shall be liable in any manner for any personal injury or properly damage or a loss of any kind arising from or connected with this inspection.									
Date Signed	(Authorized Inspector)	Commissions							
	tAumonzed Inspector		(National Board (incl. endorsements))						