

ACI Central Inc.

20 McAulay Court, Charlottetown, PE C1A 9M7
 P.O. Box 53, Charlottetown, PE C1A 7K1. Phone: 902-566-1975, Fax: 902-566-3133

Recommendation to Register – Pressure Vessel Design

To: Stephen Higdon

Date: 03/17/2015

From: ACI Central Inc.

Manufacturer: Constructions Frigorifiques de L'Atlantique
 ZAC des Coteaux de Grand Lieu rue de la
 Bouaye, 44830
 France

Manufacturer #: PV-807

Subject: ACI Central Design Review

The product described on this form has satisfied the requirements for review of pressure vessel designs established by the Directors of ACI Central at their September 1994 meeting in Moncton, New Brunswick. We recommend this design be registered in your Jurisdiction under;

CRN: 8344.0

Unit Description	Drawing Number	Service	Design Code
Flood Bottle	2000B510-AS rev 0	Non Lethal	ASME Sect VIII Div. 1

Shell Side		Tube Side	
MAWP @ TEMP	MDMT @ MAWP	MAWP @ TEMP	MDMT @ MAWP
290 PSI @ 104 F	- 20 F @ 290 PSI		

Test Pressure: Hydro: 377 PSI Pneu:	Test Pressure: Hydro: Pneu:
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Part	Material	Des. t"	Act. t"	CA"	% EF	RT	PWHT	Dimensions	Notes
Shell	SA 333 6	0.139	0.311	-	85			OD": 14"	
Heads	SA 516 60	0.197	0.335	-	85			OAL": 68"	
Nozzles	SA 333 6							W":	
								H":	
								HS FT":	



Notes:

- 1- The return of this form, bearing the signature and stamp of the Jurisdiction will legally establish the CRN shown on this form.
- 2- A copy of the Design bearing the CRN will be sent to the Manufacturer.
- 3- Details including service conditions will be posted on the 'Silent Inspector' Bulletin Board.
- 4- Copies of the Design and Specifications are available to ACIC Members on demand.
- 5- The form will be a permanent ACIC record.
- 6- To reduce turnaround times to a minimum fax your response to 902-566-3133.

ACIC Log#: 22357

Description: Flood Bottle, V355R
 ASME UM Stamp

This space is for Jurisdictional stamp and signature


 Registered 8344.0
 Date 20 MAR 2015
 Engineering and Inspection Services
 Registered by 
 UNDER THE AUTHORITY OF THE
 PUBLIC SAFETY ACT AND
 THE LOWER PRESSURE VESSEL AND
 PIPE REGULATIONS

ACIC DESIGN REVIEW

AUTHORISED BY THE DIRECTORS OF ACI CENTRAL

CRN: 8344.0

DATE: 3/24/2015

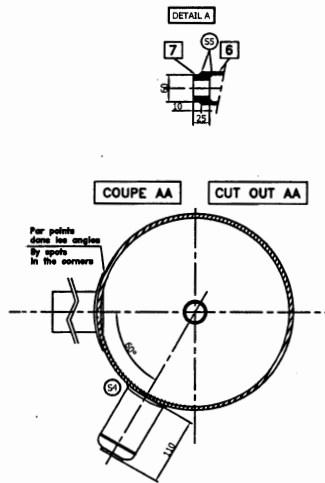
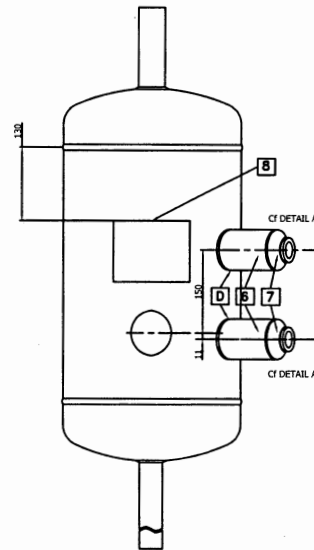
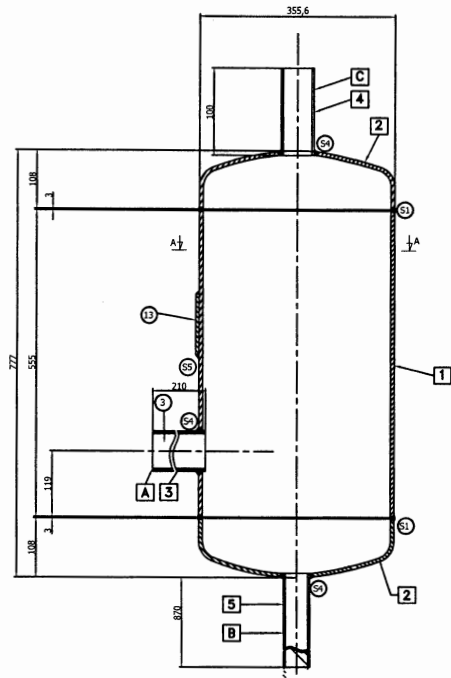
FILE: PV-807

REGISTRATION IS A LEGAL REQUIREMENT UNDER THE ACT.
IT DOES NOT RELIEVE THE MANUFACTURER OF ANY RESPONSIBILITY FOR THE PRODUCT DETAILED HEREIN.

ASME
**CERTIFIED BY: CONSTRUCTIONS
 FRIGORIFIQUES DE L'ATLANTIQUE S.A.R.L.**
 44830 - BOUAYE - FRANCE

UM
 W

M.A.W.P 20bar (290PSI) AT 49°C (104°F)
 M.D.M.T -28°C (-20.4°F) AT 20bar (290PSI)
 MANUFACTURER'S SERIAL NR: _____
 YEAR BUILT: _____



- CONNECTIONS -

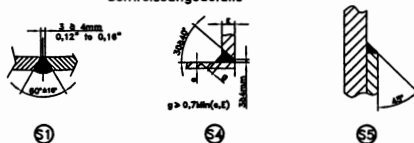
ITEM	Qty	SERVICE	Outside DIA	CLASS	Thk	TYPE	FACE
A	1	INLET	88.9 (3.5")		5.5 (0.22")	BW	
B	1	OUTLET	48.3 (1.9")		3.8 (0.15")	BW	
C	1	OUTLET	73 (2.87")		5.2 (0.20")	BW	
D	1	INLET-OUTLET	33.4 (1.31")		3.4 (0.13")	BW	

Rev	Description of revision	Date	Drawn	Checked	Approved by
0	ORIGINAL ISSUE	18.05.2013			
1	DESCRIPTION OF REVISION				

CONSTRUCTIONS FRIGORIFIQUES DE L'ATLANTIQUE SARL
 Z.A. des Coteaux de Grand Lieu Rue de la Borne Sabas 44830 BOUAYE
 Tel. 02 51 11 32 20 Fax 02 40 32 52 93



Détail soudures
 Welding details
 Schweißungs details



Approbation		ASME VIII Div 1 édition 2013	Approval	Fitting
CHARACTERISTIQUES	DATA		NOTE	
Masse totale à état fini	70kg	Total dry weight	Minimumes	
Capacité d'épreuve	48bar	Testing capacity	Fuites/Leaks	
Plaque	SS316, SS304, 2717	Plate	Immunisation	
Pression maxi de service	20 (300 PSI)	Maximum allowable working pressure	Weld, Surface/Surface Treatment	
Pression d'épreuve (Hydrostatique)	30 (377 PSI)	Test pressure (Hydro)	Conditioning	
USAGE	DESIGN		RECHANGEMENT	
Température ambiante (max)	49°C (119°F) AT 20b	Maximum metal design temperature AT MAWP	Minimum metal design temperature AT MAWP	
Température ambiante (min)	-28°C (-16,2°F) AT 20b	Minimum metal design temperature AT MAWP	Minimum metal design temperature AT MAWP	
Différentiel de pression	0,02	Working fluid differential	Corrosion resistance	
Reflux/vitesse max	0	Current velocities		
FABRICATION/CONTRÔLES	ASME SE	MANUFACTURING/CONTROLS	REVISIONS/NOTES	
Qualification soudeurs	ASME SE	Welder qualification	Subcontractor/contracting	
Contrôle au moyen de radiations	as per JE	Inspection during manufacturing	Prüfung während der Herstellung	
Traitements thermiques	as per code	Post weld heat treatment	Welding/Grinding	
Essais	as per code	Liquid penetrant testing		
Ultrasons	as per code	Ultrasonic testing		
Radiographie	as per code	Radiography		
Essais de traction	as per code	Weld metal tensile		
Essais de rupture	as per code	Longitudinal stress		
Essais de flexion	as per JE	Charpy impact		
Essais de torsion	as per code	Impact testing for radiography		
Essais au choc dynamique	as per code	Weld shock sample		
Essais de vibration	as per JE	Inspection during manufacturing		
Essais de résistance	as per JE	Dimensional inspection		
MÉTIER	S.A. S.B.	CLEANING	REMARKS	
PROTECTION	PROTECTION	PROTECTION	REMARKS	
Catégorie	Ordre	Classe		
Méthodologie + installation thermiques	Subsystème + thermal insulation	Autres	Schweißung Metallgruppen + Wärmebehandlung	

8	1	Support plaque aluminium Date plate bracket Schilderhalter	8 ex 8 8" x 8" (203 x 203 mm) Alu/Alu	ASME 6 A	Non pressure part		
7	1	Tube 3/4" BSP	AS-300 1/2"	ASME 6 A			
6	1	Tube #73 by 180 Pipe #1.27" length 3.54"	0.8" 0.38"	AS-300 0 0	ASME 6 A		
5	1	Tube #48.3 by 870 Pipe #1.9" length 34.33"	0.7" 0.18"	AS-300 0 0	ASME 6 A		
4	1	Tube #48.3 by 180 Pipe #1.9" length 3.54"	4 0.18"	AS-300 0 0	ASME 6 A		
3	1	Tube #73 by 216 Pipe #1.27" length 8.53"	0.8" 0.38"	AS-300 0 0	ASME 6 A		
2	3	Flange Turbopompe #200 Cap #1.6"	0.8" 0.38"	AS-616 0 0	ASME 6 A		
1	1	Tube #88.9 by 381 Pipe #1.4" length 21.88"	7.6 0.31"	AS-300 0 0	ASME 6 A		

GEA

GEA Genclaxe s.a.s.
 ZAC de la Forêt - 6 rue des Orives
 44840 LES SORCIÈRES
 TEL:33 (0)2 51 18 10 51 / FAX:33 (0)2 40 04 73 81

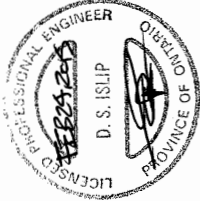
Site assembly of the present drawing
 drawn with the manufacturer, he will
 ensure the information related to
 the part concerned.

Drawn: C.M. Approval: L.B. Date: 18.05.2013 Sheet: 1/4 - 1 Rev: 0

BOUTEILLE FLOOD **FLOOD BOTTLE** **FLÜSSIGKEITSAUSSCHNEIDER** **V355R** **ASME - APPROBATION** **ASME 2000B510-AS**

Diffusion: GENCLAXE Class. doc.: 1/1

INDEX	DATE	NO	MODIFICATIONS



Approbation	ASME VIII Div 1 Edition 2013	Approved	Prüfung
CHARACTERISTIQUES Masse totale à vide Capacité d'épreuve Fluide Pression max de service Pression d'épreuve (hydraulique)	DATA Total dry weight Testing capacity Fluids Maximum allowable working pressure Test pressure (Hydro)		DAVEN Volumenmasse Prüfkapazität Kornmittel Max. Betriebsüberdruck Drospiegelhöhe
CALCUL Température max (calcul) Température min (calcul) Coefficient de soudure Surépaisseur correction	DESIGN Maximum metal design temperature AT MAWP Minimum metal design temperature AT MAWP Welding joint efficiency Corrosion allowance		BEZECHEUNG Schweißverfahrenzulassung
FABRICATION/CONTROLS Qualification mode opératoire de soudure Qualification soudeur Contrôle en cours de fabrication Traitement thermique Reassuage Ultrasons Radiographie Niveaux Cordons longitudinaux Cordons circulaires Couds interposition Cuspides ménorés Contrôle en cours fabrication Contrôle dimensionnel	MANUFACTURING/CONTROLS Welding qualification Welder qualification Inspection during manufacturing Post weld heat treatment Liquid penetrant testing Ultrasonic testing Radiography Longitudinal seams Weld interferences Circular seams Interposition couds for radiographs Weld check samples Inspection during manufacturing Dimensional inspection		HEURSTELLUNG/KONTROLLE Schweißverfahrenzulassung Schweißersonzulassung Prüfung während der Herstellung Nüßigenprüfung
NETTOYAGE	CLEANING		REINIGUNG
PROTECTION Extrême Métallisation + Isolation thermique	PROTECTION Outside Schoopage + thermal insulation		SCHUTZ Aussen Schoopages Metallisierung + Wärmedämmung

Imposed Test exempted by UG-20(1) MAWP: Not Applicable

8	1	Support plaque aérodynamique Data plate bridge Schleibprüfbrücke	5 ou 6 3/2" or 3/4"	SA-516 Gr 60 (Not Normalized)	ASME II A	Non pressure part
7	1	Tube 3/4 NPT		SA-350 L72	ASME II A	
6	1	Tube #73 lg 100 Pipe #2,87" length 3,94"	5,2 0,20"	SA-333 Gr 6	ASME II A	
5	1	Tube #48,5 lg 870 Pipe #1,8" length 34,28"	3,7 0,18"	SA-333 Gr 6	ASME II A	
4	1	Tube #60,5 lg 100 Pipe #2,37" length 3,94"	4 0,18"	SA-333 Gr 6	ASME II A	
3	1	Tube #73 lg 210 Pipe #2,87" length 8,28"	5,2 0,20"	SA-333 Gr 6	ASME II A	
2	2	Fond Torisphérique #555 Cap #14"	8,8 0,33"	SA-516 Gr 60	ASME II A	
1	1	Tube #356 lg 565 Pipe #14" length 21,89"	7,9 0,31"	SA-333 Gr 6 (Not Normalized)	ASME II A	
Rep. Item	Nbre Qty	Désignation. Designation.	Epaisseur Thickness	Matériau Material	Norme Specification	Observation. Remark

GEA GEA GENEGLACE S.A.S.
ZAC de la Forêt - 9 rue des Orfèvres
LES SORNIERES
TEL:33.(0)2.51.19.10.51/FAX:33.(0)2.40.05.73.81

Drawer: C.M.	Approval: L.B.	Date: 18.05.2013	Scale: 1/4 - 1
BOUTEILLE FLOOD FLOOD BOTTLE FLÜSSIGKEITSABSCHNEIDER		ASME - APPROBATION	Modif: 0
Diffusion: GENEGLACE		No plan: 2000B510-AS	Folio: 1/1
		Class. doc.:	

INDEXE	DATE	NOM	MODIFICATIONS

