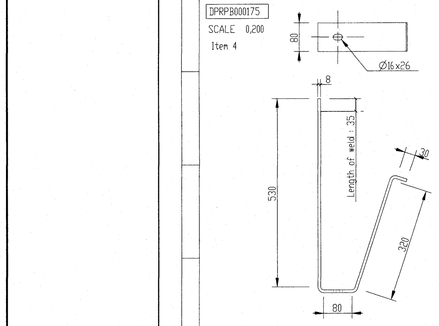
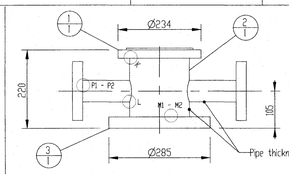
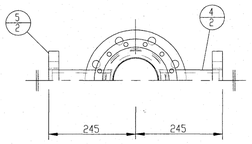
DPRPB000175

SCALE 0,200

Item 4







K7004M00001 Item 14

SCALE 0,200

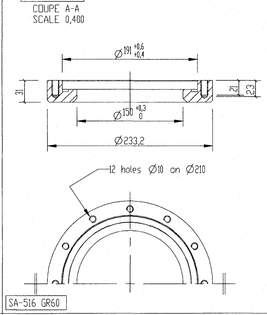
Nominal thickness for Pipe

5	2	BDPLS000001	BRIDE PLATE DN50PN16/40 EP29 FLANGE ND50 NP16/40 TH29	SA-516 GR70	EN1092
4	2	DTYXT000909	TUBE D60.3 EP8.7 L165 PIPE OD60.3 THK7 L165	SA-106 GRB	/
3	1	BDPLS000003	BRIDE PLATE DN150PN16 EP33 FLANGE	SA-516 GR70	EN1092
2	1	DTYUT001883	TUBE D168.3 EP11 L195 PIPE OD168.3 THK11 L195	SA-106 GRB	/
1	1	BDRAD000004	BRIDE RACCORD N150 CONNECTING FLANGE ND150	SA-516 GR60	/
Rep. Item	Qte Qty	Numero Number	Designation Description	Matiere Material	Observations Remarks

BDSDD000012 Item 11

COUPE A-A

SCALE 0,400

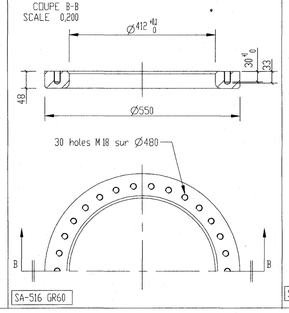


SA-516 GR60

BDVID000016 Item 5

COUPE B-B

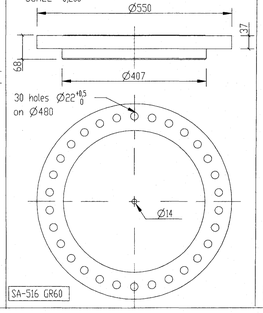
SCALE 0,200



SA-516 GR60

BDPCD000241 Item 7

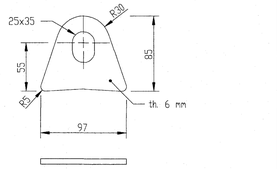
SCALE 0,200



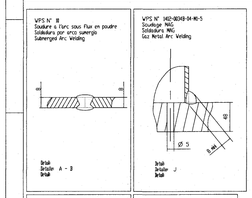
SA-516 GR60

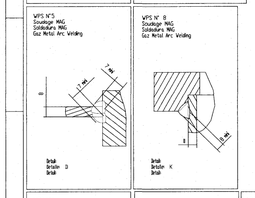
DFQUB000001 Item 17-18

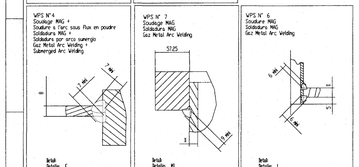
SCALE 0,500

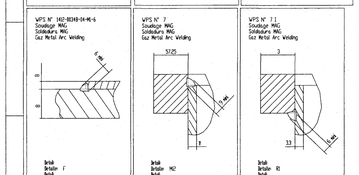


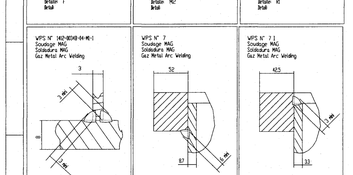
SA-516 GR60

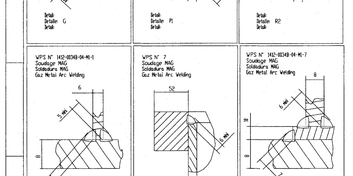




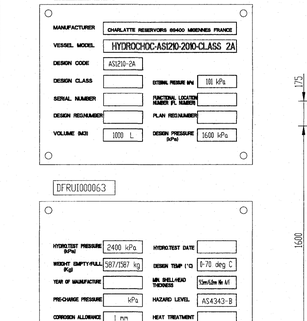


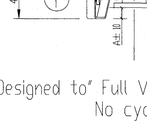




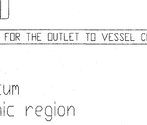


RH016M02000





DETAIL B
ECHELLE 0,200



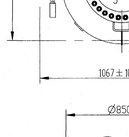
DETAIL A
ECHELLE 0,200

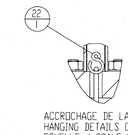
Calcul suivant AS1210-2010 2A Calculation conform to AS1210-2010 2A	
Hazard level (as4343-2005) : B	Pression de service : 16,00 bar Working pressure :
Coefficient : 0,85	Temperature de service : 0/ 70°C Working temperature :
Pression de calcul : 16,00 bar Design pressure :	Pression d'epreuve : 24,00 bar Test pressure :
Temperature de calcul : 70°C Design temperature :	Pression exterieure : 1,01 bar External pressure :

Table des epaisseurs / Thickness table			
		Virole / Shell	Fond elliptique / Ellipsoidal head
Corrosion exterieure Outside corrosion	ce	0 mm	
Corrosion Inside corrosion	ci	1 mm	
Epaisseur resistante Resistant thickness	tr	5,83 mm	4,96 mm
Epaisseur nominale Nominal thickness	ts	8 mm	8 mm
Tolerance de Fabrication Manufacturing tolerance	tol	0,5 mm	1,2 mm
Epaisseur finie Finished thickness	tf = ts-tol	7,5 mm	6,8 mm
Epaisseur minimale Minimal thickness	t = tf-ce-ci	6,5 mm	5,8 mm
Diametre interieur Inside diameter	D	834 mm	834 mm
Epaisseur mini fabrication Mini thickness manufacture	tr + ci	6,83 mm	5,96 mm

Rep. Item	Qte Qty	Numero Number	Designation Description	Matiere Material	Observations Remarks
45	2	GBQUB000007	BOUCHON M 1" GAZ PLUG 1" BSP M	SA-105	
44	8	VEQH0160006S	ECROU H M16 A4 INOX NUT H M16	SA-194 8M	
43	8	VVHM0168006	VIS H M16X80 A4 INOX SCREW H M16X80	SA-320 B8M CL1	
42	16	VRMX0160006	RONDELLE M16 A4 INOX WASHER M16	STAINLESS STEEL	
41	2	BDPCD000213	TAMPON DN50PN16 ISO BLIND FLANGE ND50PN16 ISO	SA-516 GR60	
40	2	JPAXW005040	JOINT PLAT DN50 PN40 ISO GASKET ND50 NP40	TESNIT BA-U	
39	4	BPRU000165	PATTE DE TERRE ø14 EARTH LUG	1.4404	
38	1	GMAX1000001	MANO GAUGE 1000 1/2"INOX PRESSURE GAUGE 0-25B	STAINLESS STEEL	
37	1	RH001M05001	ENSEMBLE DE GONFLAGE INFLATING SYSTEM	SUB-ASS	
36	1	KH017M04000	BRAS 1/2"GAZ INOX PERCE SUIVANT J865 ARM INOX DRILLED TO J865	316L	
35	1	GRDX1000007	ROBINET A POINTEAU 1/2" GAZ MF PRESSURE GAUGE VALVE 1/2" BSP	STAINLES STEEL	
34	4	VEQH0140006	ECROU H M14 A4 INOX NUT H M14	SA-194 8M	
33	8	VRMX0140006	RONDELLE M14 A4 INOX WASHER M14	STAINLESS STEEL	
32	4	VVHM0140606	VIS H M14X60 A4 INOX SCREW H M14X60	SA-320 B8M CL1	
31	2	JETX1000006	TIRANT 1/2" A8 SUPPORT UP	STAINLESS STEEL	
30	2	DPRUB000763	PLAT SUPPORT NIVEAU SUPPORT PLATE	S235JR	
29	2	DFRRS000145	FLANC 120X120X10 PLATE 120X120X10	SA-516 GR70	
28	1	KU006M03001	TUBE DE CONFIANCE EQUIPE PIPE 1/2 NPS CL 160 GRADE X52	316L	STAINLESS STEEL
27	1	JPAXW001550	JOINT PLAT DN15 CL300 GRADO X2 GASKET DN15 CL300	TESNIT BA-U	WITHOUT ABESTOS
26	1	KU006M02001	BYASS DN15 CL300 GRADO 1/2GAZ INOX 20M DN15 CL300 GRADO X2M80	316L	STAINLESS STEEL
25	2	GRDX1000001	ROBINET 1/2" FF PLUG VALVE 1/2" BSP FF	STAINLESS STEEL	
24	1	GTEX1000007	TE FFF 1/2" TEE BSP 1/2"	STAINLESS STEEL	
23	3	GMAM0000003	MAMELON 1/2 MM 1/2 MMM100 NIPPLE 1/2" MMM100	316L	
22	1	DPYX1000001	EQUIPEMENT ACCROCHAGE CATCHING EQUIP	STAINLESS STEEL	
21	1	DFRU1000063	PLAQUE N2 MANUFACTURER PLATE	SA-240 316L	
20	1	DFRU1000062	PLAQUE N1 MANUFACTURER PLATE	SA-240 316L	
19	1	DFRPD000004	GRAND PIRUET SUPPORT PLATE	SA-516 GR60	
18	1	DFQUB000001	PATTE D'ELINGAGE EP6 LIFTING LUG	SA-516 GR60	
17	2	DFQUB000001	PATTE D'ELINGAGE EP6 LIFTING LUG	SA-516 GR60	
16	12	VVHM0100406	VIS H M10X40 A4 INOX SCREW H M10X40	SA-320 B8M CL1	
15	12	VRMX1000006	RONDELLE M10 A4 INOX WASHER M10	STAINLESS STEEL	
14	1	K7004M00001	SORTIE/INDEX 50/150 PN16 EN1092 OUTLET ND50/150/50 NP16 EN1092	SUB-ASS	
13	1	RH016M02000	CREPINE CAN L INTER STRAINER	SUB-ASS	
12	1	RV040M04000	VESSIE 1000 PRSSKV CON /2END BLADDER 1000 PRSSKV	BUTYL	
11	1	BDSDD000012	BRIDE DE SORTIE OUTLET FLANGE	SA-516 GR60	
10	30	VEQH0180006S	ECROU H M18 A4 INOX NUT H M18	SA-194 8M	
9	30	VRMX1180006	RONDELLE M18 A4 INOX WASHER M18	STAINLESS STEEL	
8	30	VGXU18X106	GOUJON M18-80 RM30 STUD BOLT M18	SA-320 B8M CL2	
7	1	SV1810M1400	CONVERSEUR BSP 1814 ASS BLIND FLANGE DN50 THK68	SUB-ASS	BDPCD000241
6	1	JTJXM000002	JOINT TORIQUE 1406.56.99 O RING ø3 406.56.99	NITRILE	
5	1	BDVID000006	BRIDE DN50 THK68 ETAB FLANGE DN050 10X10 11H48	SA-516 GR60	
4	4	DPRFB000175	PIED RIDEAU DN50_70_300/SSL LEG DN50	SA-283 Gr.c	
3	1	DFRRS0000331	VOILE DN50 EP5 L1500 SHELL DN50 THK 5 L1500	SA-516 GR70	
2	1	FELXS000131	FOND ELLIPTIQUE DN50 ELLIPSOIDAL CAP DN50	SA-516 GR70	
1	1	FELXS000131	FOND ELLIPTIQUE DN50 ELLIPSOIDAL CAP DN50	SA-516 GR70	
Rep. Item	Qte Qty	Numero Number	Designation Description	Matiere Material	Observations Remarks

Ratio 1.9/1





ACCROCHAGE DE LA VESSIE
HANGING DETAILS OF THE BLADDER
ECHELLE / SCALE 0,500

Coupon temoin
Production test plate
DT90MAU0008

80 microns maximum sur toutes les portees de joint
80 microns maximum on all gaskets surfaces

Inside protection :
- Shot blasting SA 3
- 2 coat Interline 975SF, th. 500 microns Color AS2700 N14

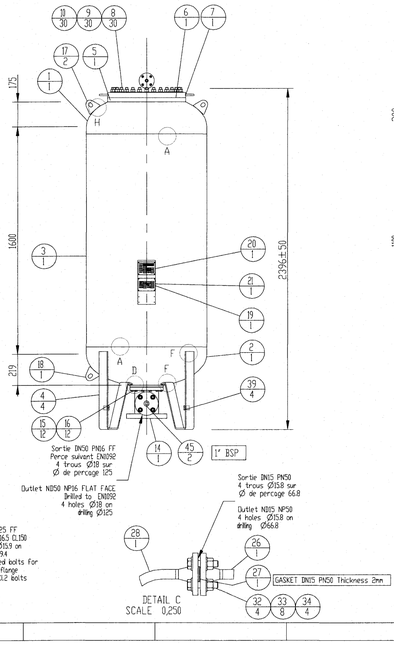
Outside protection :
- Shot blasting SA 3
- 1 coat Inorganic zinc ethyl silicate, th. 80 microns
- 2 coat two pack catalysed acrylic coating, th. 200 microns
- 1 coat Laquer 60 microns
- Total th540 microns

Ferrous material spec. for AUSTRALIAN STANDARD
in according with AS4458 page 91 Appendix B

Calcul to AS1210-2010 design compliance
Construction to AS1210-2010

RADIOGRAPHIE: 10% + NOEUDS

RADIOGRAPHY: 10% + NODES



DFRU000062

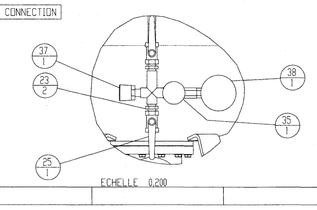
MANUFACTURER	CHARLATTE RESERVOIRS 69400 MISENNES FRANCE
VESSEL MODEL	HYDROCHOC-AS1210-2010-CLASS 2A
DESIGN CODE	AS1210-2A
DESIGN CLASS	EXTERNAL PRESSURE kPa: 100 kPa
SERIAL NUMBER	FUNCTIONAL LOCATION NUMBER PL NUMBER:
DESIGN REGNUMBER	PLAN REGNUMBER:
VOLUME (m3): 1000 L	DESIGN PRESSURE (kPa): 1600 kPa

DFRU000063

HYDROTEST PRESSURE (kPa): 2400 kPa	HYDROTEST DATE:
WEIGHT EMPTY+FULL (Kg): 5817/7587 kg	DESIGN TEMP (°C): 0-70 deg C
YEAR OF MANUFACTURE:	MIN. SHELL HEAD THICKNESS: 10mm/12m for kit
PRE-CHARGE PRESSURE: kPa	HAZARD LEVEL: AS4343-B
CORROSION ALLOWANCE: 1 mm	HEAT TREATMENT:

"Designed to" Full Vaccum
No cyclonic region

DN	Numero du reservoir Vessel number	Numero Number	Percage Drilling	A
150	KV003M00008	K7004M00001	8 holes Ø22 on Ø240	76



Rev.	Date	Modifications	Dess.	Verif.
4	14-Apr-14	Quantity item33 become 8		
3	01-Apr-14	Add washers on ND50 nozzles Change welding detail K		
2	07-Mar-14	cover's modification, modification as per costumer's request		
1	05-Mar-14	Modification as per costumers' request	FD	PF
00	04-Apr-13	Edition initiale - First issue	PF	FD

ACCUMULATEUR A VESSIE / SURGE VESSEL 1000 LITRES
PS / Working pressure : 16,00 bar - PE / Test pressure : 24,00 bar

CHARLATTE RESERVOIRS
FRIATEC GROUP

17, RUE PAUL BERT 69400 MISERMES (FRANCE)
TEL : 03.86.72.30.00
TELECOPIEUR : 03.86.72.30.01

ECHELLE - SCALE : 1/200 | TOLERANCE - JOINT TOL. : 0.5 | A0
MASSE - WEIGHT : 387 kg | MATIERE - MATERIAL : EVENS
TRAITEMENT - TREATMENT :
N° KV003M00008
REV. 4

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ISSUE	DATE	GRID	REVISION	DRN	REC	APPD

DESIGN SURVEY NONE | VERTICAL DATUM NONE | COORDINATE SYS NONE | ASCON SURVEY NONE | DES REF

DES CALC M.BRUNI | DES CHD M.BRUNI | DRN J.SAUNDERS | Q.C. CHD P.MIRCO

NORTH POINT

INFRASTRUCTURE DESIGN BRANCH

RECOMMENDED M.Bruni 3/11/2015
SENIOR MECHANICAL ENGINEER

APPROVED 3.11.15
PRINCIPAL MECHANICAL ENGINEER

WATER CORPORATION

MECHANICAL STANDARD DRAWING
MECHANICAL DESIGN STANDARD
PRESSURE VESSEL – BLADDER – PN16 – 1m3 – DN150
MMR 21588 – DESIGN REGISTRATION PV6–188083/15

FILE JT1 2013 08946 V01 | PROJECT | PLAN JZ39–91–23 | CAD | ISSUE A

ORIGINAL SHEET SIZE A1

MF 06 NOV 2015

566
810

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