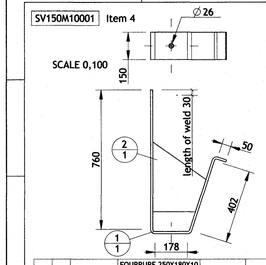
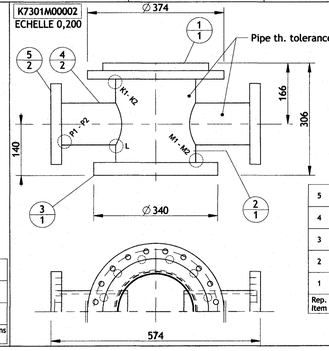
SV150M10001 Item 4

SCALE 0,100



Rep. Item	Qte Qty	Numero Number	Designation Description	Matiere Material	Observations Remarks
3	1	DFRXS000005	FOURRURE 250X180X10 PLATE		/
2	1	DFQXS0002301	AME EP10 D1500 V WEB PLATE	SA-516 Gr70	/
1	1	DPRPB000313	PIED 150X12 D1500 V LEG 150X12	SA283 Gr.C	LG.1460

K7301M00002
ECHELLE 0,200



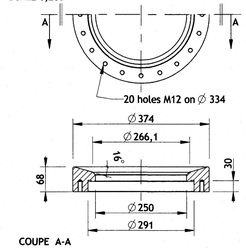
Item 14

Nominal thickness for Pipe

Rep. Item	Qte Qty	Numero Number	Designation Description	Matiere Material	Observations Remarks
5	2	BDPLS000017	BRIDE PLATE DN100PN16 EP29 FLANGE ND100 NP16 TH29	SA-516 GR70	EN1092
4	2	DTYXT000840	TUBE D114.3 EP8.8 L200 PIPE OD114.3 TH8.8 L200	SA-106 GRB	
3	1	BDPLS0000004	BRIDE PLATE DN200PN16 EP35 FLANGE	SA-516 GR70	EN1092
2	1	DTYUT001212	TUBE D219.1 EP6.4 L260 PIPE OD219.1 TH6.4 L260	SA-106 GRB	
1	1	BDRAD000045	BRIDE DE RACCORDEMENT DN200 FLANGE	SA-516 GR60	

BDSOD000222 Item 11

SCALE 0,200

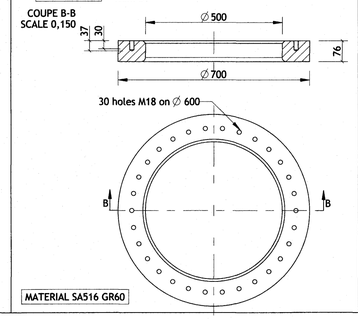


COUPE A-A

MATERIAL SA-516 GR60

BDVID000003 Item 5

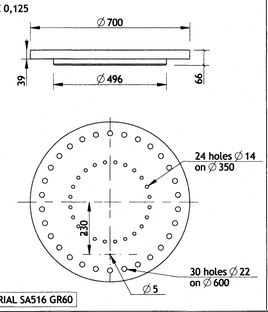
COUPE B-B
SCALE 0,150



MATERIAL SA516 GR60

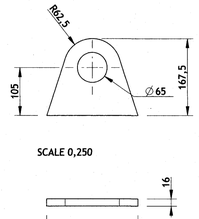
BDPCD000239 Item 7

SCALE 0,125



MATERIAL SA516 GR60

DFQUD000040 Item 42-44



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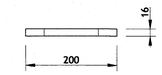
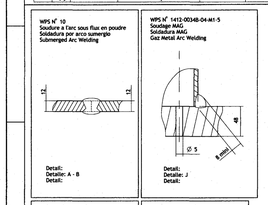


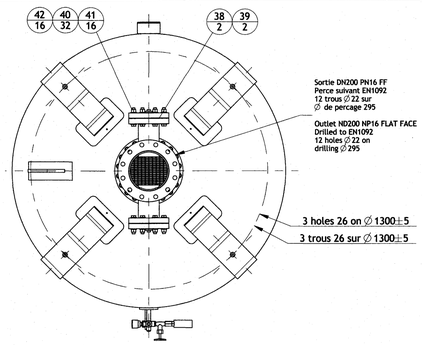


DFRUI000062

MANUFACTURER	CHARLATTE RESERVOIRS 89400 MIGENNES FRANCE
VESSEL MODEL	HYDROCHOC-AS1210-20ID-CLASS 2A
DESIGN CODE	AS1210-2A
DESIGN CLASS	
DESIGN PRESSURE BAR	101 kPa
SERIAL NUMBER	FUNCTIONAL LOCATION NUMBER PL NUMBER
DESIGN REQUIREMENT	PLAN REQUIREMENT
VOLUME (M3)	3000L
DESIGN PRESSURE BAR	1600 kPa

DFRUI000063

HYDROTEST PRESSURE BAR	2400 kPa	HYDROTEST DATE	
WEIGHT EMPTY-FULL Kgs	1470kg/4470kg	DESIGN TEMP °C	0-70 degC
YEAR OF MANUFACTURE		MIN. SHELL/HEAD THICKNESS	
PRE-CHARGE PRESSURE		HAZARD LEVEL	AS4343-B
CORROSION ALLOWANCE	1mm	HEAT TREATMENT	



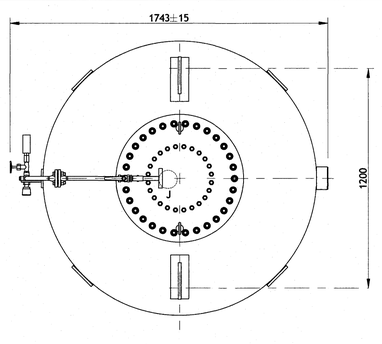


Table des epaisseurs / Thickness table			
		Virole / Shell	Fond elliptique / Ellipsoidal head
Corrosion exterieure Outside corrosion	ce	0 mm	
Corrosion Inside corrosion	ci	1 mm	
Epaisseur resistante Resistant thickness	tr	10.31 mm	8.76 mm
Epaisseur nominale Nominal thickness	ts	12 mm	12 mm
Tolerance de fabrication Manufacturing tolerance	tol	0.5 mm	1.8 mm
Epaisseur finie Finished thickness	tf = ts-tol	11.5 mm	10.2 mm
Epaisseur minimale Minimal thickness	t = tf-ce-ci	10.5 mm	9.2 mm
Diametre interieur Indide diameter	D	1476 mm	1476 mm
Epaisseur mini fabrication Mini thickness manufacture	tr + ci	11.31 mm	9.76 mm

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 :

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

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 9755F, th. 500 microns Color AS2700 N14

Outside protection :
- Shot blasting S.A. 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 th.540 microns

Ratio 1.9/1

Rep. Item	Qte Qty	Numero Number	Designation Description	Matiere Material	Observations Remarks
49	24	DPAUI000004	ECROU BORGNE M12 L30 BLIND NUT M12	SA194 8BM	
48	24	JBSXO000015	RONDELLE DUBO R0266 M12 WASHER DUBO R0266 M12	NYLON	
47	1	DFQUD000040	PATTE DELINGAGE EP16 LIFTING PAD	SA-516 GR60	
46	1	DFRXS001500	FOURRURE 1000X300X10 PLATE 1000X300X10	SA-516 GR70	
45	2	DFQUD000040	PATTE DELINGAGE EP16 LIFTING PAD	SA-516 GR60	
44	2	DFRXS001500	FOURRURE 1000X300X10 PLATE 1000X300X10	SA-516 GR70	
43	2	GBOUB000007	BOUCHON M 1" GAZ PLUG 1" BSP M	SA-105	
42	16	VEOHI1600065	ECROU H M16 INOX NUT H M16	SA-194 8M	
41	16	VVHMI160906	VIS H M16X90 A4 INOX SCREW H M16X90	SA-320 B8M CL.1	
40	32	VRMXI1600006	RONDELLE M16 A4 INOX WASHER M16	STAINLESS STEEL	
39	2	BDPCD000242	TAMPON DN100PN16 ISO BLIND FLANGE ND100 NP16 ISO	SA-516 GR60	
38	2	JPAXW010016	JOINT PLAT DN100 PN16 ISO GASKET ND100 NP16	TESNIT BA-U	
37	1	DPRUI000165	PATTE DE TERRE d14 EARTH LUG	1.4404	
36	1	KH017M04000	BRAS 1"/2 GAZ DN25 PERCE SUIVANT B16.5 ARM DN25 DRILLED TO B16.5	316L	
35	1	GMAXI000001	MANO DA25B D100 1"/2 INOX PRESSURE GAUGE 0-25B	STAINLESS STEEL	
34	1	GROXI000007	ROBINET A POINTEAU 1/2" GAZ MF ROBINET A POINTEAU 1/2" GAZ MF	STAINLES STEEL	
33	1	RH001M05001	PRESSURE GAUGE VALVE 1/2" BSP ENSEMBLE DE GONFLAGE INFLATING SYSTEM	SUB-ASS	
32	4	VEOHI140006	ECROU H M14 A4 INOX NUT H M14	CLASSE A4-80	
31	8	VRMXI140006	RONDELLE M14 A4 INOX WASHER M14	STAINLESS STEEL	
30	4	VVHMI140606	VIS H M14X60 A4 INOX SCREW H M14X60	SA-320 B8M CL.1	
29	2	IETXI000006	ETRIER 1/2" D8 SUPPORT D8	STAINLESS STEEL	
28	2	DPRUB000763	PLAT SUPPORT NIVEAU SUPPORT PLATE	S235JR	
27	2	DFRRS001145	FOURRURE 1000X100X10 PLATE 1000X100X10	SA-516 GR70	
26	1	KU006M03001	TUBE DE GONFLAGE EQUIPE PIPE 1"/2 NPT CL300 (PN50) SCH80	316L STAINLESS STEEL	
25	1	JPAXW001550	JOINT PLAT DN15 CL300 (PN50) GASKET ND15 CL300	TESNIT BA-U WITHOUT ABESTOS	
24	1	KU006M02001	BRAS DN15 CL300 (PN50) 1/2GAZ INOX ARM DN15 CL300 (PN50) SCH80	316L STAINLESS STEEL	
23	2	GROXI000001	ROBIN. BOS 1/2 FF PLUG VALVE 1/2 BSP FF	STAINLESS STEEL	
22	1	GTEXI000002	TE FFF 1/2" TEE BSP FFF	STAINLESS STEEL	
21	3	GMAMI000003	MAMELON DB MM 1/2 MAMT100 NIPPLE 1/2" MAMT100	316L	
20	1	DFRUI000063	PLAQUE N.2 MANUFACTURER PLATE	SA-240 316L	
19	1	DFRUI000062	PLAQUE N.1 MANUFACTURER PLATE	SA-240 316L	
18	1	DFRPD000004	GRAND PONTET SUPPORT PLATE	SA-516 GR60	
17	1	SV005M13000	CONTRE-BRIDE ACCRO CATCHING FLANGE	SUB-ASS	
16	20	VVHMI120506	VIS H M12X50 A4 INOX SCREW H M12X50	SA-320 B8M CL.1	
15	20	VRMXI120006	RONDELLE M12 A4 INOX WASHER M12	STAINLESS STEEL	
14	1	K7301M00002	SORTIE DN200/100/100 PN16 EN1092 OUTLET ND200/100/100 NP16 EN1092	SUB-ASS	
13	1	RH016M12000	CREPINE CAILL. INTER DN200-250 STRAINER	SUB-ASS	
12	1	KV011M15200	VESSIE 3000L D1500V 200-250 BLADDER 3000L D1500V	BUTYL	
11	1	BDSOD0000222	BRIDE SORTIE DN200-250 EP68 OUTLET FLANGE	SA-516 GR60	
10	30	VEOHI1800065	ECROU H M18 INOX NUT H M18	SA-194 8M	
9	30	VRMXI1800006	RONDELLE M18 A4 INOX WASHER M18	STAINLESS STEEL	
8	30	VGOUI1800976	GOUJON M18-67 bm30 STUD BOLT M18	SA-320 B8M CL2	STAINLESS STEEL
7	1	KV011M11001	COUVERCLE ACCRO DE700 EP66 ASS BLIND FLANGE	SUB-ASS	BDPCD000239
6	1	JTOXM000003	JOINT TORIQUE D497,4X10 O RING id 497,4X10	NITRILE	
5	1	BDVID0000003	BRIDE DE700 D1500 EP76 FLANGE ED700 ID500 TH76	SA-516 GR60	
4	4	SV150M10001	PIED D1500V J70/50L LEG D1500 V	SUB-ASS	
3	1	DFRRS000297	VIROLE D1500 EP12 L1100 SHELL D1500 TH12 L1100	SA-516 GR70	
2	1	FELXS000115	FOND ELLIPTIQUE D1500 ELLIPSOIDAL CAP OD1500	SA-516 GR70	
1	1	FELXS000115	FOND ELLIPTIQUE D1500 ELLIPSOIDAL CAP OD1500	SA-516 GR70	

Rev.	Date	Modifications	Dess.	Verif.
6	03-Feb-15	Change outlet assembly		
5	05-Jun-14	Change Item lifting lug		
4	14-Apr-14	Quantity item 29 become 8, outlet screw become stainless steel		
3	31-Mar-14	Change outlet	PF	PJ
2	11-Mar-14	Modification mini thickness	FD	PF
1	06-Mar-14	Modification as per costumer's request	FD	PF
00	20-Dec-12	Edition initiale - First issue	PF	FD

ACCUMULATEUR A VESSIE / SURGE VESSEL 3000 LITRES
PS / Working pressure : 16,00 bar - PE / Test pressure : 24,00 bar

CHARLATTE RESERVOIRS FRANCE GROUP
17, RUE PAUL BERT 89400 MIGENNES (FRANCE)
TEL. : 03.86.92.30.00
TELECOPIEUR : 03.86.92.30.01

ECHELLE : SCALE : 0,100 | A0
DATE - DATE : 20-Dec-13 | TOL. GENE - GENE. TOL. : ±.5
POIDS - WEIGHT : 1530 kg | MATIERE - MATERIAL : S/EMS
TRAITEMENT - TREATMENT :
N° KV011M00002
REV. 6

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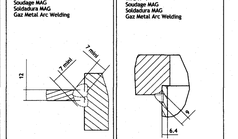

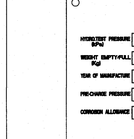

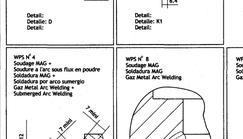

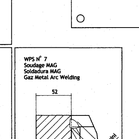

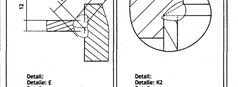

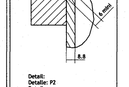

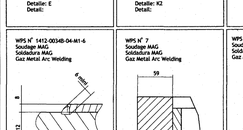

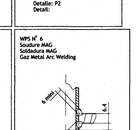

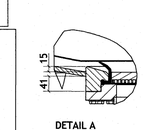

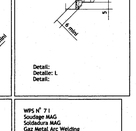

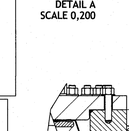

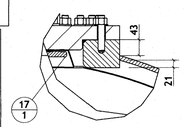

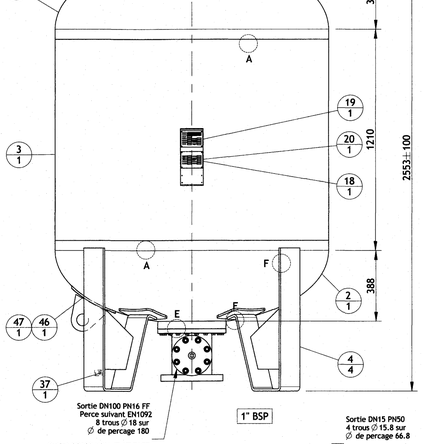

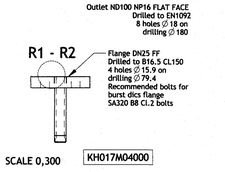

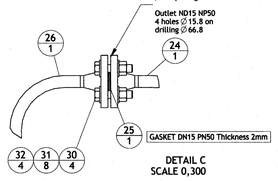

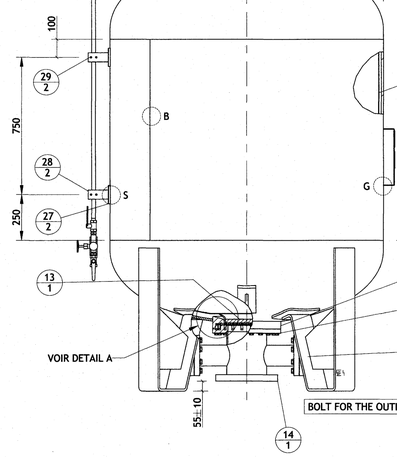

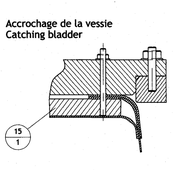

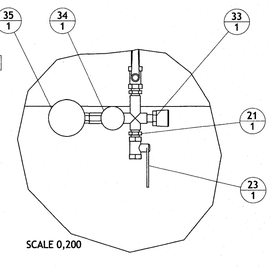

"Designed to" Full Vaccum
No cyclonic region

Coupon temoin
Production test plate
OT90MAU0012

ISSUE	DATE	GRID	REVISION	DRN	REC	APPD

DESIGN SURVEY	VERTICAL DATUM	DES CALC
NONE	NONE	M.BRUNI
	COORDINATE SYS	DES CHD
	NONE	M.BRUNI
ASCON SURVEY	DES REF	DRN
NONE		J.SAUNDERS
		Q.C. CHD
		P.MIRCO

NORTH POINT

INFRASTRUCTURE DESIGN BRANCH

RECOMMENDED
SENIOR MECHANICAL ENGINEER
3/11/2015

APPROVED
PRINCIPAL MECHANICAL ENGINEER
3.11.15

WATER CORPORATION

MECHANICAL STANDARD DRAWING
MECHANICAL DESIGN STANDARD
PRESSURE VESSEL - BLADDER - PN16 - 3m3 - DN200
MMR 21590 - DESIGN REGISTRATION PV6-188082/15

FILE JT1 2013 08946 V01
PROJECT
PLAN JZ39-91-25
CAD
ISSUE A

ORIGINAL SHEET SIZE A1

MF 06 NOV 2015

566
810

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