

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)

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

1. Manufactured and certified by Bromley Mechanical Services, Inc., A Division of Argo Sales Ltd., 925 - 23 Street SW, Medicine Hat, Alberta, T1A 8R1, CANADA

(Name and address of manufacturer)

2. Manufactured for Ultrafab Industries Ltd, 261088 Wagon Wheel Crescent, Rocky View, Alberta, T4A 0E2, CANADA

(Name and address of purchaser)

3. Location of Installation Stock

(Name and address)

4. Type Vertical Contactor 331925 V8820.213 34382-REG Rev.0 1132 2013
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2010 to 2011

(year)

[Addenda, if applicable (Date)]

n/a

(Code Case numbers)

n/a

(Special Service per UG-120(d))

6. Shell: SA516-70N 0.625" 0.125" 4' (OD) 8'
(Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) [Length (overall)]7. Seams: Butt (Type 1) Full 100% 1150°F 1.25 Butt (Type 1) Full 100 % 1
[Long. (welded, dbl., sngl., lap, butt)] R.T. (Spot or Full) Eff. (%) (H.T. temp) Time (hr) [Girth. (welded, dbl., sngl., lap, R.T. (spot or full)] Eff. (%) No. of Courses8. Heads: (a) Material SA516-70N (b) Material SA516-70N
(Spec. no., grade) (Spec. no., grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	TOP	0.5625"	0.125"	N/A	N/A	2:1	N/A	N/A	N/A	Concave
(b)	BOTTOM	0.5625"	0.125"	N/A	N/A	2:1	N/A	N/A	N/A	Concave

If removable, bolts used (describe other fastenings)

n/a

(Material spec. number, grade, size, number)

9. MAWP 265 Psig n/a at max. temp. 150°F n/a
(Internal) (External) (Internal) (External)Min. design metal temp. -20°F at 265 Psig Hydro, pneu., or comb. test pressure 345 PSIG

Proof test

n/a

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Manway	1	20"	CL150RFWN	SA106B	SA105N	1.031"	0.125"		UW-16.1(c)	Type 1	Shell
Inlet, Outlet	2	6"	CL150RFWN	SA106B	SA105N	0.719"	0.125"		UW-16.1(c)	Type 1	Shell
Clean Out	1	8"	CL150RFWN	SA106B	SA105N	0.875"	0.125"		UW-16.1(c)	Type 1	Shell
Drain/Pump Out	1	2"	CL150RFWN	SA106B	SA105N	0.344"	0.125"		UW-16.1(c)	Type 1	Shell

Additional Nozzles - See Attached U-4...

11. Supports: Skirt Yes Lugs 0 Legs 0 Other n/a Attached Datum Head Weld
(Yes or no) (Number) (Number) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors, have been furnished for the following items of the report:

N/A

(Name of part, item number, Manufacturer's name and identifying stamp)

CA: 0.125", PSV Supplied By Others Per UG125, Stud-20, 1 1/8" x 6 1/4" SA193-2HM, Hex Nut-40, 1 1/8" SA194-2HM, Volume: 106.5 cu ft or 3.02 cu m, No-Impact Testing Exempt Per UCS-66(b) & UG20f(1-5), Construction Drawing Cad. No. 34566 Rev.0

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made 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 No. 30634 expires October 26, 2013Date 05/14/2013 Co. name Bromley Mechanical Services, Inc., A Division of Argo Sales Ltd. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Bromley Mechanical Services, Inc., A Division of Argo Sales Ltd. at 925 - 23 Street SW, Medicine Hat, Alberta, T1A 8R1, CANADA, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province AB and employed by ABSA, of Edmonton, AB have inspected the component described in this Manufacturer's Data Report onMay 14, 2013 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND 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 05/15/2013 Signed [Signature] Commissions 10304AB, AB12
(Authorized Inspector) (National Board (incl. endorsements), State, Province and number)

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

1. Manufactured and certified by Bromley Mechanical Services, Inc., A Division of Argo Sales Ltd., 925 - 23 Street SW, Medicine Hat, Alberta, T1A 8R1, CANADA
(Name and address of Manufacturer)

2. Manufactured for Ultrafab Industries Ltd, 261088 Wagon Wheel Crescent, Rocky View, Alberta, T4A 0E2, CANADA
(Name and address of Purchaser)

3. Location of installation Stock
(Name and address)

4. Type Vertical Contactor N/A 331925
(Horizontal, vertical, or sphere) (Tank, separator, heat exch., etc.) (Manufacturer's serial number)


V8820.213 34382-REG Rev.0 1132 2013
(CRN) (Drawing number) (National Board number) (Year built)


Data Report
Item Number Remarks

Additional nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
PSV, LG(2)	3	2"	CL150RFWN	SA106B	SA105N	0.344"	0.125"		UW-16.1(c)	Type 1	Shell
Vent	1	2"	TOL		SA182-316L	CL3000	0.125"		UW-16.(a)		Top Head
Chemical Injection	1	1/2"	TOL		SA182-316L	CL3000	0.125"		UW-16.1(a)		Shell

Certificate of Authorization: Type "U" No. 30634 Expires October 26, 2013

Date 05/14/2013 Name Bromley Mechanical Services, Inc., A Division of Argo Sales Ltd. Signed 
(Manufacturer) (Representative)

Date 05/15/2013 Signed  Commissions 10304AB, AB12
(Authorized Inspector) (National Board Authorized Inspector Commission number)