





**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 Code Rules, Section VIII, Division 1

1. Manufactured and certified by: Bota Welding, LLC 402 - 56<sup>th</sup> Street, Niagara Falls, NY 14304  
(Name and address of manufacturer)

2. Manufactured for: Thermal Kinetics Systems, LLC 667 Tift Street Buffalo, NY 14220  
(Name and address of purchaser)

3. Location of installation: Unknown  
(Name and address)

4. Type: Horizontal TP-4204 6018-MQ-4207 118 2006  
(Type, or vent class) (Mfg's Serial No.) (CRN) (Drawing No.) (Serial No.) (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, Div. 1 2004  
Year

to 2005  
Year

6. Shell: SA-240 TP-304L .188 0 1' 11-5/8" 3' 7-7/8"  
(Spec. No., Grade) (Nom. Thk. (in.)) (Cor. Allow. (in.)) (Diam., I.D. (ft. & in.)) (Length (ft. & in.))

7. Seams: Type 1 None 70 N/A - Type 1 None 1  
Long (Welded, Dbl. Bevel, Lap, Butt) R.T. (Spot or Full) DR. (%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl. Bevel, Lap, Butt) R.T. (Spot or Full) or Full No. of Courses

8. Heads: (a) Matl SA-240 TP-304L (b) Matl SA-240 TP-304L  
(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	.125	0			2:1				Concave
(b)	Bottom	.125	0			2:1				Concave

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Part Spec. No., Grade, Size, etc.)

9. MAWP 25 15 150 150 psi at max temp. 150 °F  
(internal) (external) (internal) (external)

Min. design metal temp. -20 °F at 25 psi. Hydro. pneu., or comb. test press. 32.5 psi

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl	Nom. Thk	Reinforcement Material	How Attached	Location
Vent	1	2"	CI150Fig	SA-312 TP-304L	.1540		UW16.1⊙	shell
Level	2	3"	CI150Fig	SA-312 TP-304L	.2160	N/A	UW16.1⊙	head-shell
Outlet	1	4"	CI150Fig	SA-312 TP-304L	.2370	N/A	UW16.1⊙	shell
Liquid Inlet	1	8"	CI150Fig	SA-312 TP-304L	.3220	N/A	UW16.1⊙	shell
Sight Glass	1	6"	studpad	SA-240 TP-304L	2.000	N/A	UW16.1⊙	shell

11. Supports: Skirt \_\_\_\_\_ Lugs \_\_\_\_\_ Legs \_\_\_\_\_ Others 2 Attached \_\_\_\_\_ Welded \_\_\_\_\_  
(Yes or No) (No) (No) (No) (Saddles) (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: \_\_\_\_\_  
(Name of part, item number, NPS name and identifying stamp)

**Impact Test Exempt Per UHA-51(d)UCS 66(c), Owner/User responsible for Pressure Relief Valve**  
 Cr seam 70% E.

**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 Code for Pressure Vessels, Section VIII, Division 1. U Certificate of Authorization No. 32004 Expires 7-26 2009

Date 12/14/06 Co. Name Bota Welding, LLC Signed \_\_\_\_\_  
(Manufacturer)

**CERTIFICATE OF SHOP/FIELD INSPECTION**

Vessel constructed by Bota Welding, LLC at 402 - 56<sup>th</sup> Street, Niagara Falls, NY 14304

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of New York and employed by HSB CT

have inspected the component described in this Manufacturer's Data Report on 12/14/06, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the inspector nor his 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 12/14/06 Signed \_\_\_\_\_ Commissions NB11103ANY5078

118

BOTA WELDING LLC



SIZE	THICK	T/CSET
25 PSI	X	X
150	X	X
15 PSI	X	X
MIN. DESIGN PRESSURE (PSI)	-20	25
MIN. DESIGN TEMP (°F)	X	X
MIN. DESIGN WIND SPEED (MPH)	X	X

REG. SERIAL NO. TP-4204      YEAR BUILT 2006

Thermal Kinetics Systems, LLC      BUFFALO, NEW YORK