

28114

ROTA WELDING LLC



MIN DESIGN TEMP	25	X	X
DESIGN TEMP	30	X	X
MAX TEMP	15	X	X
MIN DESIGN TEMP	20		25
MIN DESIGN TEMP	X		X
MIN DESIGN TEMP	X		X
TP-4112			2007

Corrected Copy

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 - 56th Street, Niagara Falls, NY 14304
(Name and address of manufacturer)

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

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

4. Type: Vertical TP-4112 - 6018-MQ-4112 114 2007
(Orientation) (Mfg's serial No.) (CRN) (Drawing No.) (Part 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
 Year: 2004
 to 2005
(Addressee Date) (Code Case No.) (Special Service per UG-120.1)

6. Shell: SA-240 TP-304L .25 0 4' 5-1/2" 11' 9-7/8"
(Mat'l Spec. No./Grade) (Nom. Thk. (in)) (Cor. Allowance) (Diam. TD (ft. & in.)) (Length (ft. & in.))

7. Seams: Type 1 None 70 N/A - Type 1 None 2
(Legs (Welded, Dbl. Single, Lap, Bevel)) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hrs) (Weld (Welded, Dbl. Single, Lap, Bevel)) R.T. (Spot Eff. (%) or Full) No. of Courses

8. Heads: (a) Mat'l SA-240 TP-304L (b) Mat'l 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	.1875	0			2:1				Concave
(b)	BOTTOM	.25	0				30			Concave

If removable, bolts used (describe other fastenings):
(Mat'l Spec. No., Grade, Size, No.)

9. MAWP 25 15 psi at max temp. 230 230 °F
(Internal) (external)
 Min. design metal temp. -20 °F at 25 psi. Hydro. pneu., or comb. test press. 33 psi
(Internal) (external)

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l	Nom. Thk	Reinforcement Material	How Attached	Location
Level	1	3"	stud-pad	SA-240 TP-304L	1.437	N/A	UW16.1⊙	shell
CIP	1	6"	CI150Flg	SA-312 TP-304L	.2800	SA240typ304L	UW16.1⊙	shell
Feed & Liquid Outlet	2	12"	CI150Flg	SA-312 TP-304L	.3750	SA240typ304L	UW16.1⊙	shell-cone
Vapor Outlet	1	12"	W.E	SA-312 TP-304L	.3750	SA240typ304L	UW16.1⊙	head
Manway	1	20"	CI150Flg	SA-312 TP-304L	.3750	SA240typ304L	UW16.1⊙	shell

11. Supports: Skirt YES Lugs (No) Legs (No) Others (Describe) Attached (Where and how) Welded (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, Mfg's name and identifying stamp)

Impact Test Exempt Per UHA-51(d)&(g) UCS 66(c), Owner/User responsible for Pressure Relief Valve
(2)1/4"SA240 stiffener rings welded to shell(1) welded to head.Cir seam 70% E. 2 Lifting Lugs welded to head for lifting empty ONLY.

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. 22.004 Expires 3/31, 2009
 Date 2/2/07 Co. Name Bota Welding, LLC Signed [Signature]
(Date) (Name of Manufacturer) (Signature)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Bota Welding, LLC at 402 - 56th 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 CI
 have inspected the component described in this Manufacturer's Data Report on 2/2/07 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 3/16/07 Signed [Signature] Commissions NB11103 ANYSU/8 NB10009A 3/16/07
(Date) (Signature) (Authorized Inspector) (Mat'l Board (under endorsement)) State, Prov. and No.