

**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 583950

1. Manufactured and certified by NGC Process Systems Ltd, # 2B, 624 Beaver Dam Rd. N.E Calgary, Alberta T2K 4W6 Calgary Alberta Canada  
 (Name and Address of Manufacturer)

2. Manufactured for Concept Compression Corp. 2325 - 20 Ave NE Calgary Alberta  
 (Name and address of purchaser)

3. Location of installation Stock  
 (Name and address)

4. Type Vertical 16821-101 K 6632.123 16821-101 Rev 1 N/A 2008  
 (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 2007  
 Year

to 2007 N/A N/A  
 (Addenda Date) (Code Case numbers) (Special service per UG-120(d))

6. Shell: SA-106B 0.375" 0.125" 1 Ft 1.250 In 4 Ft 11.5 In S/S  
 (Material Spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) (Length (overall))

7. Seams: Seamless N/A 100 % N/A N/A Type 1 Spot 70 % 1  
 [Long (welded, dbl., singl., lap, butt)] [R. T. (spot or full)] (Eff., %) (H.T. temp.) (Time, hr) [Girth (welded, dbl., singl., lap, butt)] [R.T. (spot or full)] Eff.(%) (No. of courses)

8. Heads: (a) Material SA-234-WPB (b) Material SA-234-WPB  
 (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)	Bottom	0.3281"	0.125"			2:1				Concave
(b)	Top	0.3281"	0.125"			2:1				Concave

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
 (Material spec., number, grade, size, number)

9. MAWP 245 psi at max. temp. 250 °F  
 (Internal) (External) (Internal) (External)

Min. design metal temp - 20 °F at 245 psi. Hydro., pneu., or comb. test pressure 319 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	Number	Diameter or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached	Location
				SEE ATTACHED	U-4	FORM		

11. Supports: Skirt Yes Lugs        Legs        Other        Attached: Welded to Bottom Head  
 (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: \_\_\_\_\_  
 (Name of part, item number, Manufacturer's name and identifying stamp)

Volume (Cu. Ft.): 5.47 Built to Construction Drawing No: 16821-101 Rev 0  
 Description: Inlet Scrubber Relief valves supplied by others as per UG 125  
 Impact Test Exempt per UG 20(f)(1-5) Equipment No: V - 101

**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 Number: 32.986  
 expires: Dec. 14, 2010  
 Date APR 30 2008 Co. name NGC Process Systems Ltd. Signed         
 (Manufacturer) (Representative)

**CERTIFICATE OF SHOP/FIELD INSPECTION**

Vessel constructed by NGC Process Systems Ltd. at #2B, 624 Beaverdam Road, N.E. Calgary, AB T2K 4W6  
 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 Alberta and employed by ABSA  
 have inspected the component described in this Manufacturer's Data Report on MAY 13 2008, 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 MAY 13 2008 Signed        Commissions ALTA #11  
 (Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)

**FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET**  
**As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1**

583950

1. Manufactured and certified by NGC Process Systems Ltd., #2B 624 Beaver Dam Road NE Calgary, AB T2K 4W6  
 (Name and address of Manufacturer)
2. Manufactured for Concept Compression Corp. 2325 20 Ave NE Calgary Alberta Canada  
 (Name and address of Purchaser)
3. Location of installation Stock  
 (Name and address)
4. Type: Vertical Inlet Separator 16821-101  
 (Horiz., vert., or sphere) (Tank, separator, heat exch., etc.) (Mfg's. serial No.)
- K 6632.123 16821-101 Rev 0 N/A 2008  
 (CRN) (Approved Drawing No.) (Nat'l Bd. No.) (Year Built)

Data Report  
 Item Number 10  
 Continued from Form U1a

Remarks

Purpose (Inlet, Outlet, Drain)	MK No.	No	Diam. or Size	Type	Mat'l	Nom. Thk.	Reinforce- ment Mat'l	How Attached	Location
Inlet	N1	1	3"	PIPE RFWN	SA-106B SA-105N	0.300" CL300	N/A	Fig. UW 16.1(c)	Shell
Outlet	N2	1	3"	ELBOW RFWN	SA-234-WPB SA-105N	0.300" CL150	N/A	Fig. UW 16.1(a)	Top Head
Drain	N3	1	1.5"	ELBOW PIPE	SA-234-WPB SA-106B	0.281" 0.281"	N/A	Fig. UW 16.1(a)	Bottom Head
LC / Inspection	C1	1	2"	CPLG	SA-105N	CL3000	N/A	Fig. UW 16.1(c)	Shell
LSHH	C2	1	1 1/2"	CPLG	SA-105N	CL3000	N/A	Fig. UW 16.1(c)	Shell
LG	C3A/B	2	3/4"	TOL	SA-105N	CL3000	N/A	Fig. UW 16.1(c)	Shell Bottom Head
Equalizing Conn	C4	1	1"	TOL	SA-105N	CL3000	N/A	Fig. UW 16.1(c)	Shell
Inspection	C6	1	1 1/2"	TOL	SA-105N	CL3000	N/A	Fig. UW 16.1(c)	Top Head
PSV	C7	1	1"	TOL	SA-105N	CL3000	N/A	Fig. UW 16.1(c)	N1
Bypass	C8	1	2"	TOL	SA-105N	CL3000	N/A	Fig. UW 16.1(c)	Shell

Certificate of Authorization: Type "U" No. 32986 Expires Dec 14, 2010

Date APR 30 2008 Name NGC Process Systems Ltd. Signed [Signature]  
 (Manufacturer) (Representative)

Date MAY 13 2008 Name [Signature] Commission ALTA #11  
 (Authorized Inspector) (Nat'l Board incl. Endorsement, State, Province and No.)

(12/91)

This form (E00118) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300



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RT-2

CERTIFIED BY



Process Systems Ltd.  
Calgary, Alberta

**ASME SECTION VIII DIV. 1**

M.A.W.P

245

PSI AT

250 °F

M.D.M.T

20

°F AT

245 PSI

CAN. REG. NO. K 6632.128

SHELL THK

0.375

IN MAT'L

SA-106B

HEAD THK

0.3281

IN MAT'L

SA-234-WPB

WT

469.23

LBS YEAR BUILT 2008

VOL

5.470

FT3 SERIAL NO. 16821-101

CA

0.125

IN TAG NO. V4101

INLET SCRUBBER

14" O.D. X 59-1/2" S/S

583950