

**STETTLER OIL & GAS EQUIPMENT
EQUIPMENT LISTING**

CLIENT: DEVON CANADA CORP. C/O OPTIMA ENGINEERING INC.

PROJECT: 5-240 LSD: 13-16-38-18 W4

METER RUN: MANUFACTURER: CANALTA

SERIAL#: DO20042 INSPECTION #: DO20042

SCH. 80 CONNECTIONS 2" x 600 ANSI AGA FIG: 2000

FLANGED

DRY FLOW:MANUFACTURER: ITT BARTON

SERIAL# 202E-307748 RECONDITIONED BY: CAVERN

DIFFERENTIAL: 0-100"W.C. STATIC: 500 PSI 3 PEN

FUEL GAS REGULATOR:MANUFACTURER: FISHER

MODEL: 1301F INPUT: 6000 PSI OUTPUT: 75 PSI

FUEL GAS DRYER: MANUFACTURER: FLO-DRI

MODEL # G10A1- ¼ BMAX. W.P. 150 PSI

FUEL GAS RELIEF: KINGS

MODEL# 19110LC-2-MT-GS SET PRESSURE: 75 PSI

DATE SET: 05/05 SCFM: 172 SERIAL# TN89023 SIZE: 1/2" X 1"

HEATER: MANUFACTURER: CISCAN SERIAL #: 286234

12"x 24" c/w cables, thermostat, hood and vented.

SKID SIZE: SIZE: 2' X 72"

BUILDING SIZE: 2' x 72"

COMMENTS:

IJD ELECTRICAL INSPECTIONS PERMIT #: E-411-05



Relief Device Single Data Sheet

Owner STETTLER OIL & GAS
 Plant MAIN
 Date Monday, May 09, 2005

Tag Number Most Recent Equipment Link Universal 1 CRN	TN89023 Yes (Relief Valve)	Serial Number Name Equipment Location Universal 2 NB Registration #	TN89023 ROB STETTLER	Unit / Vessel Status Job Number Risk / Criticality Sizing Basis	New Blocked Flow																								
Style Traveller Valve Size Inlet Rupture Disk	Threaded Threaded 1/2 x 1 No	Manufacturer Bonnet Inlet Inlet Condition	CONSOLIDATED MNPT	Model Number Cap Type Outlet Outlet Condition	19110LC-2-MT-GS FNPT																								
Body Material Trim Material		Bonnet Material Bellows Material		Soft Seat Mat'l Product																									
Spring Number		Spring Material		From / To	to																								
Service Set Pressure MAWP ASME Capacity Restricted Lift	Compressible 75 PSIG PSIG 172 SCFM IN	Nameplate / App Code Back Pressure Cold Diff Set Press Operating Press Mfg Lift	Sec VIII PSIG 75 PSIG PSIG IN	App. Capacity BP Is / Constant Operating Temp Req'd Blow Down % Orifice	SCFM F 7% = 5.25																								
Date Received Scheduled - For Pretest Leaked / @ Nameplate Valve Converted	2005/05/09 No - NEW VALVE No BPM @ No	Received By Special Cleaning Pretest Notes Comp Screw Recd Seal Valve Replaced	No IN No	Rec Universal Dismb / Insp By Popped @ Prev Repair Company Seal ID Set Press Changed	PSIG No																								
Repair Company Date Tested Assembled By Tested By Witnessed By Final Test Press Reseat Press Blow Down Measured Lift BD Ring - Up BD Ring - Lower Comment	KVS 2005/05/09 PSIG PSIG PSIG IN Notches Notches	Test Media Test Method Gauge 1 S/N Gauge 2 S/N Test Univ1 Leakage Rate / @ BP Test / @ Comp Screw Set Overlap Collar QC Inspector	 BPM @ @ IN IN	<p align="center">Check List / Quality Control</p> <table border="1"> <tr><td>Oxygen Cleaned</td><td>No</td></tr> <tr><td>Visual Inspection</td><td>Yes</td></tr> <tr><td>PSV Painted</td><td>Yes</td></tr> <tr><td>PSV Taped</td><td>Yes</td></tr> <tr><td>PSV Sealed</td><td>Yes</td></tr> <tr><td>PSV Complete</td><td>Yes</td></tr> <tr><td>Paper Work Done</td><td>Yes</td></tr> <tr><td>Coordinator Notified</td><td>Yes</td></tr> <tr><td>Stamp Repair VR</td><td>No</td></tr> <tr><td>Main Valve Test</td><td>Yes</td></tr> <tr><td>Pilot Valve Test</td><td>No</td></tr> <tr><td>Integral Test</td><td>Yes</td></tr> </table> <p>Next Maint Date 2008/05/09 (36) Next Test Date 2008/05/09 (36) Due Date (36)</p>		Oxygen Cleaned	No	Visual Inspection	Yes	PSV Painted	Yes	PSV Taped	Yes	PSV Sealed	Yes	PSV Complete	Yes	Paper Work Done	Yes	Coordinator Notified	Yes	Stamp Repair VR	No	Main Valve Test	Yes	Pilot Valve Test	No	Integral Test	Yes
Oxygen Cleaned	No																												
Visual Inspection	Yes																												
PSV Painted	Yes																												
PSV Taped	Yes																												
PSV Sealed	Yes																												
PSV Complete	Yes																												
Paper Work Done	Yes																												
Coordinator Notified	Yes																												
Stamp Repair VR	No																												
Main Valve Test	Yes																												
Pilot Valve Test	No																												
Integral Test	Yes																												

Total Costs Misc Cost Handling Cost Parts Cost Labor Cost Total Cost

Orifice Body / Meter Run Test Report

Report # DO 20042
 Date Feb 11/05
 ANS Class: 600/20042

Lower Body Heat # H5402
 Top Housing Heat # H5504
 Line Size: 2"
 Material: WCB
 Post Machined Length: 10%
 Schedule: 80
 Flange Type: RPLW

Meter Run/Orifice Fitting Test Results	V	LV	RV	H	I.I.F
a) 1 diameter from Up Stream Weld Point	1.934	1.935	1.935	1.935	Blm
b) Up Stream Weld Point	1.936	1.941	1.942	1.940	Blm
c) 1 diameter from Up Stream Tap Location	1.939			1.939	Jw
d) 1" from Up Stream Orifice Plate	1.939	1.939	1.940	1.939	Jw
e) 1" from Down Stream Orifice Plate	1.940	1.939	1.940	1.939	Jw
f) 1 diameter from Down Stream Tap Location	1.937	1.937	1.939	1.933	Blm
g) Down Stream Flange	1.939	1.937	1.929	1.931	Blm
h) Down Stream Weld Point	1.931	1.931			
i) 1 diameter from Down Stream Weld Point					

Average Dia. @ 1" U/S (D/M) = (DR) =
 Surface Roughness Test: C 85 D 85 E 85 F 85 Avg. 85
 Temperature: _____

Pressure Tap Test Results

Tap Diameter Sizes: Operator Jw
 Top U/S Left PASS Top D/S Left PASS Bottom U/S Left PASS Bottom D/S Left PASS
 Top U/S Right PASS Top D/S Right PASS Bottom U/S Right PASS Bottom D/S Right PASS
 Tap Locations: Operator Jw
 Top U/S Left PASS Top D/S Left PASS Bottom U/S Left PASS Bottom D/S Left PASS
 Top U/S Right PASS Top D/S Right PASS Bottom U/S Right PASS Bottom D/S Right PASS
 (CR) Plate Seal Gap: V PASS LV PASS RV PASS H PASS Operator: Jw

Tap Pressure Test:

Top U/S Left Bottom U/S Left Top D/S Left Bottom D/S Left Operator
 Top U/S Right Bottom U/S Right Top D/S Right Bottom D/S Right Operator

Eccentricity Test: Vertical-Max. Allowed .020 Actual .005 Horiz. Max. Allowed .005 Actual _____

Operator SWITZ
 Fitting Serial No.: 2020042 Manufacturer: CONDIC Model No.: 26
 Customer: STETTLER Customer PO No.: 932575
 Sales Order No.: 2688 Beta Ratio .75
 Inspected To: AGA Fig. 3000 API 14.3 X
 AGA 85 Edition

Assembled On: April 13/05 Orifice Fitting Assembly: _____



HYDRO TEST CHECKSHEET

CUSTOMER: STETTLER
DATE: APR 14/05
SN #: D020042
DESCRIPTION: 260DC80-00
TIME IN: 9:30 TIME OUT: 10:00
TESTS PERFORMED BY: K STUCKLESS
ANSI RATING: 600
TEST PRESSURE: 2240 PSI ✓
DURATION TIME AT TEST PRESSURE: 30min
RESULTS: PASS
TEST FLUID: H₂O

TEST WITNESSED BY CUSTOMER INSPECTOR
(Signature)

(Name- Please Print)

Comments: _____


QCI (Signature)

Witness #1 (Signature)

Witness #2 (Signature)



PROCESS CONTROL AND MEASUREMENT

PNEUMATIC-TEST REPORT

NOTE: FOR SAFETY REASONS, ORIFICE / METER RUNS ARE TO SUCCESSFULLY PASS A HYDRO TEST AT 1.5 TIMES DESIGN WORKING PRESSURE BEFORE A PNEUMATIC TEST IS PERFORMED.

HYDRO TEST RESULT CONFIRMED BY K. STUCKLESS DATE APR 14/05

CUSTOMER: STETTLER

DATE: APR 14/05

SERIAL NO: DO 20042

DESCRIPTION: 260DC80-00

TEST PERFORMED BY: K. STUCKLESS

TEST MEDIUM AIR NITROGEN

TEST PRESSURE: 840 PSI ✓

DURATION TIME AT TEST PRESSURE: 10min

RESULTS: PASS

FUNCTIONAL TEST: PASS FAIL N/A

(Note: Applies only for DC Flange x Flange or Meter Run Applications only)

TEST WITNESS BY CUSTOMER INSPECTOR: _____

(Signature)

(Name - Please Print)

Comments: _____

(Signature of QCI)

Witness #1

Witness #2

CONTROLLED DOCUMENT
Signature Erin Skerster
Date April 13, 2005
QUALITY ASSURANCE

VMA	VELMURUGAN ALLOYS (P) LTD., 65/2 - A,B & C. PUDUPALAYAM B.P.O., AVINASHI TK, COIMBATORE - 641 654.		TEST CERTIFICATE (EN 10204 - 3.1B)				TC NO. : VM/B/2570		DATE : 01.12.04			
	CUSTOMER CANALTA CONTROL VALVES, 6770-65TH AVENUE, RED DEER, ALBERTA, CANADA - T4P 1A5						SPECIFICATION REFERENCE 1. ASTM A216 WCB - 2004 Edition 2. NACE MR0175				MELT No. H5402	
PURCHASE ORDER NO. TWP - 0412A		ORDER ACCEPTANCE NO. OA - 65				DATE OF POURING 30.10.04						
CHEMICAL COMPOSITION %												
SPECIFICATION	C	Si	S	P	Mn	Ni	Cr	Mo	V	Cu	*RE	
Minimum	-	-	-	-	-	-	-	-	-	-	-	
Maximum	0.30	0.60	0.045	0.040	1.00	0.50	0.50	0.20	0.03	0.30	1.0	
Achieved	0.22	0.38	0.013	0.022	0.84	0.10	0.17	0.02	0.004	0.02	0.31	
HEAT TREATMENT												
NORMALISING : Temperature raised to 920°C, Soaked for 2 hours and then atmospheric air cooled.												
MECHANICAL PROPERTIES												
SPECIFICATION	Y.S (ksi)	UTS (ksi)	% ELONG.	% RED. IN AREA	NOTCH TOUGHNESS (at °C) J		BEND TEST		HARDNESS (BHN)			
					Values	Avg.	ANGLE	D				
Minimum	36	70	22	35	-	-	-	-	-	-	-	
Maximum	-	95	-	-	-	-	-	-	-	-	-	237
Achieved	45.8	77.7	34.0	54.0	-	-	-	-	-	-	-	150
DETAILS OF CASTINGS												
Sl.No	DESCRIPTION		DRAWING No./ REV.			PART No.		POURED QTY.				
1	2" Model DC Body		260DC04 - TT / 09			-		4 Nos.				
REMARKS :												
1. The above stated ksi values have been calculated based on original tested N/mm² values.												
2. * RE = Ni + Cr + Mo + V + Cu .												
CERTIFIED THAT						A.A.NATARAJAN AUTHORISED WORK'S INSPECTOR/ MANAGER - QUALITY ASSURANCE						
1. THE ABOVE GIVEN DETAILS ARE CORRECT.												
2. THE MATERIAL CONFIRMS TO ABOVE SPECIFICATION												
Prepared by:			Checked by : Chemist									

VMA	VELMURUGAN ALLOYS (P) LTD., 65 / 2 - A, B & C, PUDUPALAYAM B.P.O., AVINASHI Tk, COIMBATORE - 641 654.		TEST CERTIFICATE (EN 10204 - 3.1B)				TC NO. : VM/B/2589		DATE : 01.12.04			
	CUSTOMER CANALTA CONTROL VALVES, 6770-65TH AVENUE, RED DEER, ALBERTA, CANADA - T4P 1A5						SPECIFICATION REFERENCE 1.ASTM A216 WCB - 2004 Edition 2.NACE MR0175		MELT No. H5506		VENDOR MARK FLS	
PURCHASE ORDER NO. TWP - 0412A		ORDER ACCEPTANCE NO. OA - 65				DATE OF POURING 04.11.04						
CHEMICAL COMPOSITION %												
SPECIFICATION	C	Si	S	P	Mn	Ni	Cr	Mo	V	Cu	*RE	
Minimum	-	-	-	-	-	-	-	-	-	-	-	
Maximum	0.30	0.60	0.045	0.040	1.00	0.50	0.50	0.20	0.03	0.30	1.0	
Achieved	0.20	0.40	0.020	0.025	0.88	0.13	0.23	0.03	0.004	0.03	0.42	
HEAT TREATMENT												
NORMALISING : Temperature raised to 920°C, Soaked for 3 hours and then atmospheric air cooled.												
MECHANICAL PROPERTIES												
SPECIFICATION	Y.S (ksi)	UTS (ksi)	% ELONG.	% RED. IN AREA	NOTCH TOUGHNESS (at °C) J		BEND TEST		HARDNESS (BHN)			
					Values	Avg.	ANGLE	D				
Minimum	36	70	22	35	-	-	-	-	-	-	-	
Maximum	-	95	-	-	-	-	-	-	-	-	237	
Achieved	46.9	77.6	32.0	61.1	-	-	-	-	-	-	149	
DETAILS OF CASTINGS												
Sl.No	DESCRIPTION		DRAWING No./ REV.			PART No.		POURED QTY.				
1	2" Model DC Top Housing		260DC14 / 07			-		8 Nos.				
REMARKS :												
1. The above stated ksi values have been calculated based on original tested Kgf/mm ² values.												
2. * RE = Ni + Cr + Mo + V + Cu .												
CERTIFIED THAT						A.A.NATARAJAN AUTHORISED WORK'S INSPECTOR/ MANAGER - QUALITY ASSURANCE						
1. THE ABOVE GIVEN DETAILS ARE CORRECT.												
2. THE MATERIAL CONFIRMS TO ABOVE SPECIFICATION												
Prepared by:			Checked by : Chemist									