



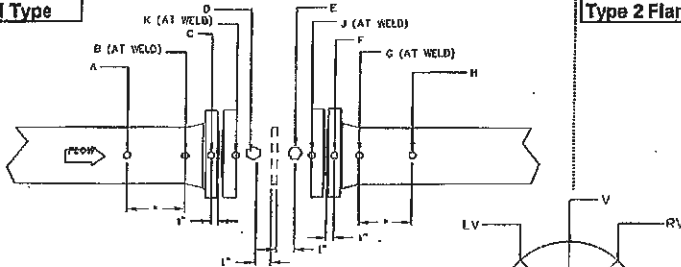
MEASUREMENT SYSTEMS

Meter Tube Calibration Record

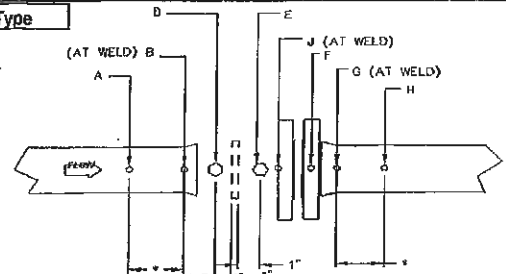
General Specifications

Customer:	RJV GASFIELD SERVICES	Date:	07/07/2011
Location:	HUSKY	P.O. Number:	118106
Serial No.	11209214612	Work Order No.	112092146
Assembly Part No.	9A-MR-52-0168E	Part No.	40552-34221
Orifice Fitting:	2" 600# SCH. 80 DUAL CHAMBER	Meter Tube Type No.	2
Straightening Vane:		Yes	X
		No	

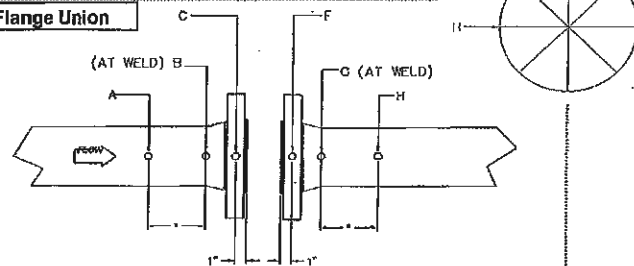
Type 1 Flanged Type



Type 2 Flangeweld Type



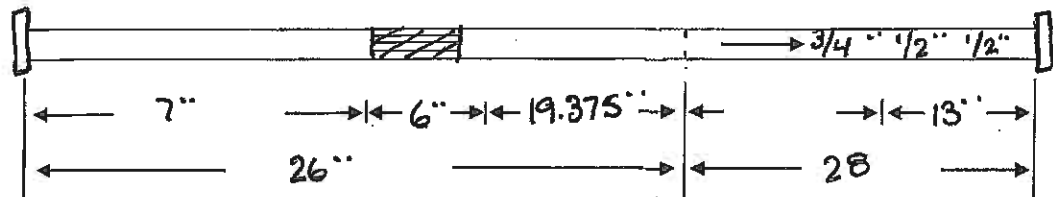
Type 3 Orifice Flange Union



Type 4 weldneck Type Valve or Door
Check Location Point A-B-D on Upstream Tube,
Point E-G-H on Downstream Tube

*Cross section 'A' and 'H' shall be one pipe diameter
except if such Cross Section falls within the WIRING or weld
it shall be made 1" inside the pipe

Location	Upstream Meter Tube					Downstream Meter Tube				
	A	B	C	D	K	E	F	G	H	J
V	1.941	1.938		1.943		1.943	1.954	1.945	1.935	1.948
LV	1.942	1.933		1.943		1.942	1.954	1.947	1.942	1.945
RV	1.940	1.936		1.943		1.944	1.956	1.948	1.938	1.951
H	1.942	1.940		1.945		1.945	1.953	1.951	1.945	1.946
Average	1.941	1.937		1.944		1.944	1.954	1.948	1.940	1.948
Upstream Mean Average to Stamp on I.D. Plate				1.944		Downstream Mean Average to Stamp on I.D. Plate				1.944



AGA/API Figure	3C(1991)	BETA	0.70	Meter Tap Location	Upstream	1"	Downstream	1"
Remarks:	68°F			Inspector:				

Certificate of Authorization Permit

Quality Management System

Expiry Date: **January 19, 2013**

Reg. No.. **AQP-5046**

This is to certify that:

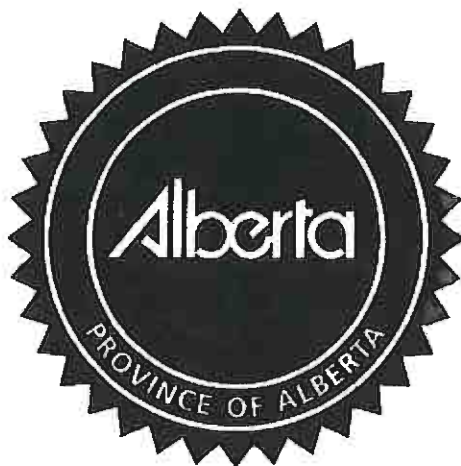
**CAMERON
MEASUREMENT SYSTEMS DIVISION
3707 - 97 STREET
EDMONTON, ALBERTA**

having complied with the provisions of the SAFETY CODES ACT, is hereby authorized to:

Manufacture Category 'F' Fittings in accordance with CSA B51

Alter Category 'C' Fittings in accordance with CSA B51

at the above SHOP address.



Dated at Edmonton, this 1st day of February, 2010

Chief Inspector and Administrator

Certificate No.: 7277



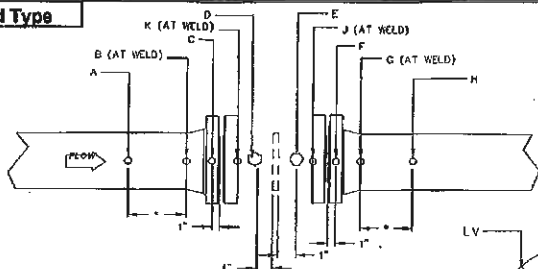
MEASUREMENT SYSTEMS

Meter Tube Calibration Record

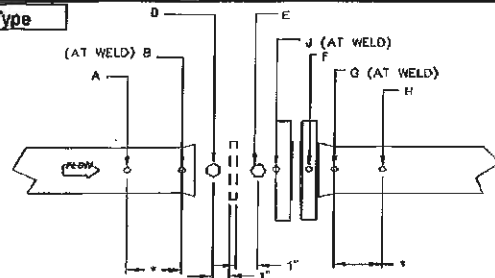
General Specifications

Customer:	RJV GASFIELD SERVICES	Date:	07/07/2011
Location:	HUSKY	P.O. Number:	118106
Serial No.	11209214612	Work Order No.	112092146
Assembly Part No.	9A-MR-52-0168E	Part No.	40552-34221
Orifice Fitting:	2" 600# SCH. 80 DUAL CHAMBER	Meter Tube Type No.	2
Straightening Vane:		Yes	X No

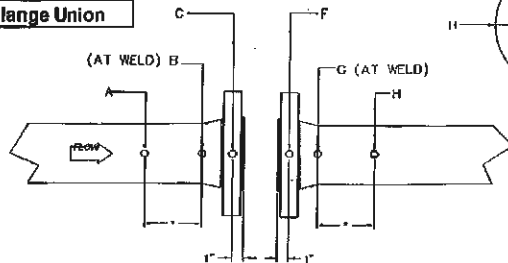
Type 1 Flanged Type



Type 2 Flangeweld Type



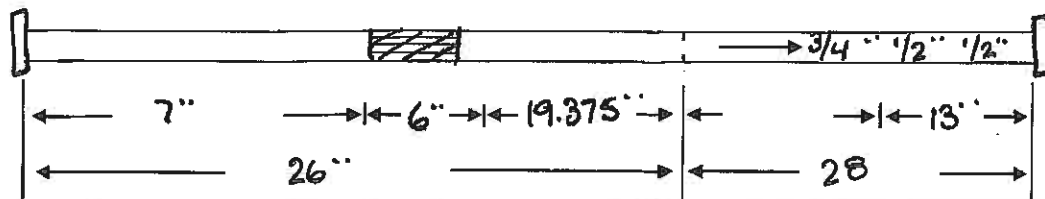
Type 3 Orifice Flange Union



Type 4 weldneck Type Valve or Door
Check Location Point A-B-D on Upstream Tube,
Point E-G-H on Downstream Tube

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except if such Cross Section falls within the lifting or weld
It shall be made 1" inside the pipe

Location	Upstream Meter Tube					Downstream Meter Tube				
	A	B	C	D	K	E	F	G	H	J
V	1.941	1.938		1.943		1.943	1.954	1.945	1.935	1.948
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H	1.942	1.940		1.945		1.945	1.953	1.951	1.945	1.946
Average	1.941	1.937		1.944		1.944	1.954	1.948	1.940	1.948
Upstream Mean Average to Stamp on I.D. Plate			1.944			Downstream Mean Average to Stamp on I.D. Plate			1.944	



AGA/API Figure	BETA	Meter Tap Location
3C(1991)	0.70	Upstream 1" Downstream 1"
Remarks:	Inspector:	
68°F		



NUFLO[®] DUAL CHAMBER ORIFICE FITTING

PART NO. **40552-34221**

SERIAL NO. **11209214612**

SIZE **2.0** BORE **1.939**

SWP **1480** LG **600**

TRIM **SWEET**

CRN (ASME CODE) 0F01120.2C



TO REMOVE PLATE FROM CHAMBER:

1. CLOSE ORIFICE CHAMBER (INDEX ORIFICE OUT OF OPERATION)
2. OPEN BLEED VALVE
3. OPEN CHAMBER LID (REMOVE TWO TOP NUTS ONLY)
4. REMOVE ORIFICE PLATE (PRY ON HOLES IN RETAINER HANDLE)

TO PLACE ORIFICE PLATE IN OPERATION:

1. REPLACE ORIFICE WITH OUTLET ON PLATE AND BEAM. (RETAINER FACING UPWARD)
2. CLOSE LID
3. CLOSE BLEED VALVE
4. OPEN EQUALIZING VALVE
5. OPEN ORIFICE CHAMBER (INDEX ORIFICE INTO OPERATION)
6. CLOSE EQUALIZING VALVE

NUFLO[™] METER RUN

ASSY NO.

9A-MR-52-0168E

SERIAL NO. **11209214612**

PIPE SIZE **2.0**

AGA 1A **3C (1991)**

WQ NO. **112092146**

INS DIA. **1.944**

SCH. **80**

MATL. **WCB**

DIS DIA. **1.944**

RATING **600**

DATE **07/10**

CALIBRATION
CERTIFIED BY

CAMERON

CRN (ASME CODE) 0F01120.2C





A.O.P. No. 7108 (c)

LUDWIG ASSOCIATES LTD.

Machine and Welding Consulting

WELDER PERFORMANCE QUALIFICATION CARD

Name: Colin Welby

ABS File No. W-17591

This card is issued pursuant to the Alberta Safety Codes Act and the Pressure Welding Regulations. The performance of the welder is in accordance with the applicable Safety Codes and Regulations and is subject to the provisions of the Act and Regulations.

February 14, 2011
Date of Test

Signature of Welder or Machine Operator

Taylor Mason
Welding Examiner

Card No.: 05392



A.O.P. No. 7108 (c)

LUDWIG ASSOCIATES LTD.

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February 14, 2011
Date of Test

Signature of Welder or Machine Operator

Taylor Mason
Welding Examiner

Card No.: 05393

PERFORMANCE QUALIFICATION

05392

Processes	GMAW	SAW	Materials (P-No) P1 to P1
Filler Metal Group (F-No)	F6	F4	Min. Outside Diameter 1.0 in.
Max. Deposited Weld Metal	0.110 in.	Max. to be Welded	Position(s) Qualified GMAW SP 0.45" & Flat SAW Flat
Backing	With or Without	With	Backing Gas With or Without
Progression	Downhill	N/A	

February 14, 2013
P.Q. Expiry Date

Welding Examiner Signature

Examiner File No.

PERFORMANCE QUALIFICATION

05393

Processes	GMAW	FGAW	Materials (P-No) P1 to P1
Filler Metal Group (F-No)	F6	F6	Min. Outside Diameter 1.0 in.
Max. Deposited Weld Metal	0.110 in.	Max. to be Welded	Position(s) Qualified GMAW SP 0.45" & Flat FGAW Flat
Backing	With or Without	With	Backing Gas With or Without
Progression	Downhill	N/A	

February 14, 2013
P.Q. Expiry Date

Welding Examiner Signature

Examiner File No.

**Grade B Pressure Welder's
Certificate of Competence**This is to Certify that **Colin Welby**
having complied with provisions of the Safety Codes Act, is authorized to engage in
pressure welding in accordance with the prescribed Regulations

Dated at Edmonton this

April 8, 1999



W-17591

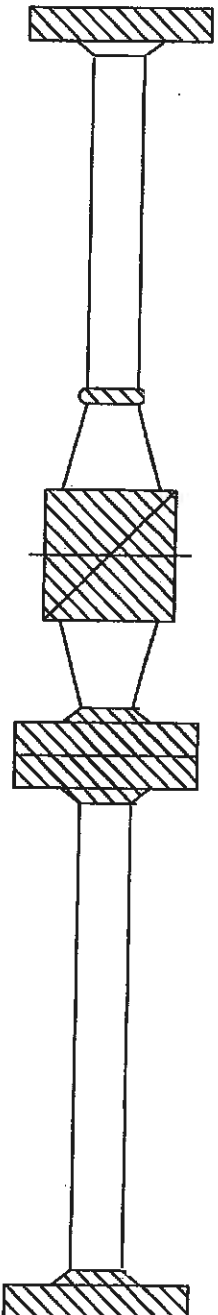
File No.

Chief Inspector and Administrator

Form No. AB-117 Rev (96/10)

Nº 12052

WELD IDENTIFICATION MAP



FLOW

DESCRIPTION: 2" 600# SCH 80 DUAL CHAMBER METER RUN
SERIAL No.: 11209214612
CUSTOMER: RJV GASFIELD SERVICES
P/O No.: 118106 TAG No.: _____
W/O No.: 112092146 END USER: HUSKY
WELDER: COLIN WELBY FILE No.: W-17591
DATE: JULY 07/ 2011 Bryan O'Neill
SYMBOL: V INSPECTOR _____



Cameron
Measurement Systems

5003 - 93rd Street
Edmonton, Alberta, Canada
T6E 5S9

MST1201
2/07/07

Highland Foundry Ltd.
CHEMICAL AND PHYSICAL ANALYSIS

Page 1
9 48 41

Product# . 40552-026
Customer Part# 40552-026
Customer . . CAMERON MEASUREMENT SYSTEMS
ACCOUNTS PAYABLE
7944 10TH STREET N.E.
CALGARY AB T2E 8W1
CANADA

Order/Item# . 29051 / 1
Customer P.O.# XP62140

2" DUAL CHAMBER BODY

Approved by: Shyan Smith
Quality Assurance Technician

Melt#	Quantity	Date	Heat Treat	BATCH #	Specification
6-8759	16	1/25/07	FW1	- -	ASTM A216 GRADE WCB

C H E M I C A L S			
C : .2000	MN .7100	SI : .4500	P : .0170
S : .0130	NI .0900	CR : .1500	MO : .0300
CU : .1400	V : .0100		

P H Y S I C A L S	
YIELD KSI 48.3	TENSILE KSI 75.9
ELONGATION % 31	RED OF AR. % 54

CE: 0.3717

$$(CE = C + \frac{Mn}{6} + \frac{Cr + Mo + V}{5} + \frac{Ni + Cu}{15})$$



MATERIAL TEST REPORT

9670-187th Street, Surrey, BC Canada V4N 3N6

Phone 604-888-8444 Fax 604-888-3634

ISO 9001:2000

Hardness Test Report



OUR REPUTATION IS STAINLESS

Customer	Cameron Measurement Systems	PO Number	XP61926
Part Number & Description	40552-026 2" Dual Ch. Body 150# - 900#	Order Number	28906 / 2
Material Specification	ASTM A216 Grade WCB	Date	02/07/07
Inspection Method	ASTM E10	Qty	18 pcs

Equipment Used: Portable King Brinell Tester

Type of Ball:

Regular ☐

Carbide ☒

Load: 3000 kg

Holding Time: 10 sec

Hardness Required: 237 Max

Brinell ☒

Rockwell ☐



Heat No. / Batch No.	% of Batch Tested	Hardness Obtained
3-3356 / EZ1	10%	156
4-8060 / EZ2	10%	170
6-8759 / FW1	10%	156

Remarks:

Tested By:

Michele Dominato
Michele Dominato
CGSB 48.9712, Level 2, Reg# 12895

MST1201
3/30/11

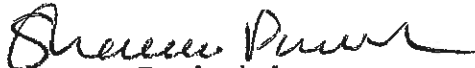
Highland Foundry Ltd.
CHEMICAL AND PHYSICAL ANALYSIS

Page 1
11:19:08

2" O/c 110

Product# . . . : 40701-052
Customer Part#: 40701-052
Customer . . . : CAMERON MEASUREMENT SYSTEMS
ACCOUNTS PAYABLE
5003 - 93RD STREET
EDMONTON AB T6E 5S9
CANADA

Order/Item# . . : 34965 / 4
Customer P.O.#: 4502773688

Approved by: 
Shauna Puchniak
Quality Assurance Technician

Melt#	Quantity	Date	Heat Treat	BATCH #	:	Specification
2-10015	42	3/11/11		YW8	-	ASTM A216 WCB

C H E M I C A L S			
C :.1900	MN:.8200	SI:.5100	P :.0180
S :.0240	NI:.0300	CR:.1900	MO:.0400
CU:.1400	V :.0200		

P H Y S I C A L S			
YIELD KSI	50.0	TENSILE KSI	75.9
ELONGATION %	33	RED OF AR. %	62
IMPACT FT LB		IMPACT FT LB	
IMPACT FT LB		TEST TEMP.	

CE = .46



MATERIAL TEST REPORT

9670-187th Street, Surrey, BC Canada V4N 3N6
Phone 604-888-8444 Fax 604-888-3634
www.highlandfoundry.com

ISO 9001:2008

Hardness Test Report



OUR REPUTATION IS STAINLESS™

Customer	Cameron Measurement Systems	PO Number	4502773688
Part Number & Description	40701-052 2" Dual CH. LID	Order Number	34965/4
Material Specification	ASTM A216 Grade WCB	Date	03/29/11
Inspection Method	ASTM E10	Qty	210

Equipment Used: Portable King Brinell Tester

Type of Ball: Regular ☒ Carbide ☐

Load: 3000 kg

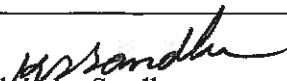
Holding Time: 10 sec

Hardness Required: 237 Max Brinell ☒ Rockwell ☐

Heat No. / Batch No.	% of Batch Tested	Hardness Obtained
1-4764/YW5	10%	170 170 183 183
2-10013/YW6	10%	183 187 170 187
2-10013/YW7	10%	174 183 187 183
2-10015/YW8	10%	179 179 179 183
2-10015/YW9	10%	179 179 170 183

Remarks:

Tested By:


Kulvinder Sandhu
CGSB 48.9712, Level 2, Reg# 10783

ASCOMETAL

DOCUMENT DE CONTROLE

Inspection Documents / Prüfbescheinigungen



Département Métallurgie Qualité
Usine des Dunes - Boite postale 41
59941 Dunkerque Cedex 2
Téléphone : 03 28 29 60 00
Télécopie : 03 28 29 60 03

Inspection Certificate 3.1

N°EN 10204 / DIN EN 10204 / ISO R-404
2004 2004 2004

Livraison : 80150215 / 000006
N° Contrôle : 830000139414

Date : 29.07.2010
Date d'édition : 20.09.2010

ORDRE DE FABRICATION : G9329AH
WORKS ORDER NUMBER / WERKBESTELLUNG

ATTAIRE SUIVIE PAR : LE CORRE
YOUR CONTACT IS / BEARBEITER

N/REFERENCE : 500989803 / 000010 (70036017)
ASCOMETAL ORDER / WERKBESTELLUNG

V/REFERENCE : SOC-13131 682804-192 (0113-7850)
YOUR ORDER / IHRE BESTELLUNG

QUANTITE : 4,870 TO
QUANTITY / MENGE

PRODUIT : A105 RON ECR 5,750 IN NOR
PRODUCT DESCRIPTION / BESCHREIBUNG

SPECIFICATION CLIENT : ASTM A105+A350LF2+A696GRC+API6A45K
SPECIFICATION / SPEZIFIKATION

IND : SANS
REV / ENTWURF

SPECIFICATIONS SUPP. : CEQ=430 S=35 P=35
DATE : 00.00.2001
DATE / DATUM

COULEE : G9329
CAST / GIESSHAFT

DESTINATAIRE DOCUMENT :
DOCUMENT FOR / ZUMPFÄNGER

Société
RYERSON
7945 CORONET ROAD
EDMONTON ALB T6E 4N7
Canada

MARQUE :

CCU : D000003650

Analyse chimique de coulée / Ladle analysis / Schmelzeanalyse

Elément (%)	Elément	Teil	C	Mn	Si	Cr	Ni	Mo	Cu	P	S	Al
Mini	Spec min	Min		0,600	0,150							
Valeur	Actual	Werte	0,154	1,111	0,275	0,159	0,240	0,061	0,233	0,013	0,014	0,021
Maxi	Spec max	Max	0,230	1,350	0,300	0,300	0,400	0,120	0,400	0,035	0,035	
Elément	Elément	Teil	V	Ch								
Mini	Spec min	Min										
Valeur	Actual	Werte	0,013	0,0000								
Maxi	Spec max	Max	0,080	0,0200								
Contraintes groupées												
Elément			Mini	Valeur	Maxi							
CSq				0,417	0,430							

Caractéristiques mécaniques / Mechanical properties / Mechanische Kennwerte

Traction / tensile test / Zugversuch
Nappe / Batch number / Loss number : G677
mid radius tested
Longitudinal test
Tensile test temperature (°F)

70

Elément	Elément	Teil	Ys,2%	UTS	E (2ln)	RA
Unité	Unit	Meinheit	PSI	PSI	%	%
Mini	Spec min	Min	45000,0	70500,0	22,0	30,0
Valeur	Actual	Werte	46343,0	71630,0	32,0	66,3
Maxi	Spec max	Max		95000,0		

Résilience / Impact test / Kerbschlagproben
Nappe / Batch number / Los number : G677
notch test 10 x 10
Mid radius testing
Charpy V notch
Longitudinal test
Impact test temperature (°F)

-50

Elément	Elément	Teil	Fv/Lbs	Fv/Lbs	Fv/Lbs	Exp lat	Exp lat	Exp lat
Unité	Unit	Meinheit	Fv/Lbs	Fv/Lbs	Fv/Lbs	"	"	"
Mini	Spec min	Min	11,0	11,0	11,0			
Valeur	Actual	Werte	82,0	101,3	94,5	0,0	0,1	0,1
Maxi	Spec max	Max						

Notu certifikats, kas los produkti el-domsu snt konformas ar prescripcijam de la comandu, respectant la directiva europeana 2000/53/CE du 18 septembre 2000 et presentant un niveau de radioactivite au plus egal a la radioactivite ambiante.

We hereby certify the above mentioned products are complying with the order requirements, are respectful of the September, 18th 2000 - 2000/53/CE - european directive, and have a radioactivity level which does not exceed that present in the environment.

Wir bestätigen hiermit dass die oben genannten Erzeugnisse den Bestimmungsvorschriften, der EU-Richtlinie 2000/53/CE von 18 september 2000 entsprechen und die gefertigten Produkte keine Radioaktivität, die höher ist als natürliche Strahlung der Umwelt, aufweisen.

ASCOMETAL
SA à directoire et conseil de surveillance
au capital de 65 285 430 EUR
331 048 132 RCS Nanterre

Siège social : Immeuble le Colisée - 8, avenue de l'Arche, Faubourg de l'Arche, 92419 COURBEVOIE Cedex

ASCOMETAL



Département Mécanique Qualité
Usine des Dunes - Boite postale 41
59941 Dunkerque Cedex 2
Téléphone : 03 28 29 60 00
Télécopie : 03 28 29 60 03

DOCUMENT DE CONTROLE

Inspection Documents / Prüfbescheinigungen

Inspection Certifiée 3.1

NF EN 10204 / DIN EN 10204 / ISO 9001
2004 2004 2004

Livraison : 80150215 / 000006
N° Contrôle : 030000139414

Date : 29.07.2010
Date d'édition : 20.09.2010

ORDRE DE FABRICATION : G9329AH
WORKS ORDER NUMBER / WERKBESTELLUNG

COULEUR : G9329
CAST / SCHMIEßEN

DESTINATAIRE DOCUMENT :
DOCUMENT FOR / EMPFANGER

AFFAIRE SUIVIE PAR : LE CORRE
YOUR CONTACT IS / BEARBEITER

N°REFERENCE : 500989803 / 000010 (70036017)
ASCOMETAL ORDER / WERKHAUSSTELLUNG

V/REFERENCE : SOC-13131 682804-192 (0113-7850)
YOUR ORDER / IHRE ZEICHNUNG

QUANTITE : 4,870 TO
QUANTITY / MENGE

PRODUIT : A105 RON ECR 5,750 IN NOR
PRODUCT DESCRIPTION / BESCHREIBUNG

SPECIFICATION CLIENT : ASTM A105+A350LF2+A696GRC+API6A45K
SPECIFICATION / SPECIFIKATION

IND : SANS
REV / ENTWURF

SPECIFICATIONS SUPP. : CEQ=430 S<=35 P<=35

NUANCE : A105
GRAD / WERKSTOFF

Société
RYERSON
7945, CORONET ROAD
EDMONTON ALB T6E 4N7
Canada

MARQUE :

CCU : D000003650

Résilience / Impact test / Kerbschlagproben
Nappe / Batch number / Los nummer : G677
notch test 10 x 10
Mid radius testing
Charpy V notch
Longitudinal test
Impact test temperature (°F)

-60

Elément	Element	Teil	Ft/Lbs	Ft/Lbs	Ft/Lbs
Unité	Unit	Mehrheit	Ft/Lbs	Ft/Lbs	Ft/Lbs
Mini	Spec min	Min			
Valeur	Actual	Werte	95,4	113,2	99,4
Maxi	Spec max	Max			

Résilience / Impact test / Kerbschlagproben
Nappe / Batch number / Los nummer : G677
notch test 10 x 10
Mid radius testing
Charpy V notch
Impact test temperature (°F)
transverse test

-60

Elément	Element	Teil	Ft/Lbs	Ft/Lbs	Ft/Lbs
Unité	Unit	Mehrheit	Ft/Lbs	Ft/Lbs	Ft/Lbs
Mini	Spec min	Min			
Valeur	Actual	Werte	29,0	25,7	24,0
Maxi	Spec max	Max			

Traitement thermique / Heat treatment / Warmbehandlung

Traitement	T Min	T	T Max	Durée	Refraldissement
Norm. temp.		1652 °F		3,00 hrs	Normalized air cooled

Dureté de surface sur barres / Bars surface hardness / Stäbe Randhärte

Elément	Element	Teil	BHN top
Mini	Spec min	Min	
Valeur	Actual	Werte	145
Maxi	Spec max	Max	187

Autres résultats / Other results / Andere Prüfergebnisse

Elément	Mini	Valeur	Maxi
Grain size M-Quaid Ehn	5	7	8

Nous certifions que les produits ci-dessus sont conformes aux prescriptions de la commande, respectant la directive européenne 2000/53/CE du 18 septembre 2000 et présentant un niveau de radioactivité au plus égal à la radioactivité ambiante.

We hereby certify the above mentioned products are complying with the order requirements, are respectful of the September, 18th 2000 - 2000/53/CE - european directive, and have a radioactivity level which does not exceed that present in the environment.

Wir bestätigen damit dass die obengenannten Baugutnisse den Bestellungsanforderungen, der EU-Richtlinie 2000/53/CE von 18 September 2000 entsprechen und die geltenden Produkte keine Radioaktivität, die höher ist als natürliche Strahlung der Umwelt, aufweisen.

ASCOMETAL
SA à directoire et conseil de surveillance
au capital de 65 285 430 EUR
331 048 132 RCS Nanterre

Siège social : Immeuble la Collée - 8, avenue de l'Arche, Faubourg de l'Arche, 92419 COURBEVOIE Cedex

ASCOMETAL

DOCUMENT DE CONTROLE

Inspection Documents / Prüfbescheinigungen

Inspection Certificate 3.1

NFEN 10204 / DIN EN 10204 / ISO R-404
2004 2004 2004

Livraison : 89150215 / 000006
N° Contrôle : 030000139414

Date : 29.07.2010
Date d'édition : 20.09.2010



Département Métallurgie Qualité
Usine des Dunes - Boite postale 41
59041 Dunkerque Cedex 2
Téléphone : 03 28 29 60 00
Télécopie : 03 28 29 60 03

ORDRE DE FABRICATION : C9329AH
WORKS ORDER NUMBER / WERKBESTELLUNG

AFFAIRE SUIVIE PAR : LE CORRE
YOUR CONTACT IN / IHARBEITER

N/REFERENCE : 500989803 / 000010 (70036017)
ASCOMETAL ORDER / WERKBESTELLUNG

V/REFERENCE : SOC-13131 682804-192 (0113-7850)
YOUR ORDER / IHARZELLE

QUANTITE : 4,870 TO NUANCE : A105
QUANTITY / MENGE GRAD / WERKSTOFF

PRODUIT : A105 RON ECR 5,750 IN NOR
PRODUCT DESCRIPTION / BESCHREIBUNG

SPECIFICATION CLIENT : ASTM A105+A350LF2+A696GRC+API6A45K
SPECIFICATION / SPEZIFIKATION

IND : SANS DATE : 00.00.2001
REV / ENTWURF DATE / DATUM

SPECIFICATIONS SUPP. : CEQ<430 S<35 P<35

COULEE : C9329
CAST / SCHWELZE

DESTINATAIRE DOCUMENT :
DOCUMENT FOR / EMPFANGER

Société
RYERSON
7945, CORONET ROAD
EDMONTON ALB T6E 4N7
Canada

MARQUE :

CCU : D900003650

Electric furnace - vacuum degassed
Ultrasonic testing satisfactory per ASTM A388-05

Conforms to API 6A type 75K - PSL1-3
Conforms to NACE MR 01-75
Conforms to ASME SA105/SA350LF2
Conforms to ASTM A696 gr C - ASME SA696 gr C
No welding performed

LIN
Produit en France / Product of France / In Frankreich hergestellt

Visa du chef de service
Stamp of inspection supervisor
Der Werkssachverständige
Anne Rasquelle

Nous certifions que les produits ci-dessus sont conformes aux prescriptions de la commande, respectent la directive européenne 2000/53/CE du 18 septembre 2000 et présentent un niveau de radioactivité au plus égal à la radioactivité ambiante.

We hereby certify the above mentioned products are complying with the order requirements, are respectful of the September, 18th 2000 - 2000/53/CE - european directive, and have a radioactivity level which does not exceed that present in the environment.

Wir bestätigen hiermit dass die obengenannten Bezugsstücke den Bestimmungsvorschriften, der EU-Richtlinie 2000/53/CE vom 18 september 2000 entsprechen und die gelieferten Produkte keine Radioaktivität, die Höher ist als natürliche Strahlung der Umwelt, aufweisen.

ASCOMETAL
SA à directoire et conseil de surveillance
au capital de 65 285 430 EUR
331 048 132 RCS Nanterre

Siège social : Immeuble la Colisée - 8, avenue de l'arche, Faubourg de l'Arche, 92419 COURBEVOIE Cedex



Manufacturers of Piping and Pressure Vessel Components

4407 Haygood St - Houston, TX 77022

Phone: 713-695-3633 Fax: 713-695-3528

A Benney Forge Company

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Sold To: TRANS AM PIPING PRODUCTS
 LTD
 9335 ENDEAVOR DRIVE S.E.
 CALGARY AB T3S 0A1

MTR #: 200,085

PO #: CI-10-527

Sales Order #: C001013323

Date: 12/17/2010

Certified Material Test Report

Heat Code: 58184

This product has not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment. No welding performed.

We certify that the contents of this report are correct and accurate, and that all test results and operations performed by WFI or its subcontractors are in compliance with the material specification and requirements of the referenced code or standard, and that the material conforms to the dimensional requirements of the order. This document is in accordance with EN10204 3.1.

Material: A/SA105N 09

Item	Description
7	36 - 3/4 X 1/2 3M THP A/SA105N

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.220	0.04	0.070	1.83	0.000	0.01	0.02	0.008
	0.019	0.26	0.00					
Carbon Equivalency:		Ladle		0.41				

Product	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
	75,000	49,900	29.00	66.00	144 BHN
					144 BHN

Normalized

1. IN ACCORDANCE WITH NACE SPEC MR0175-2002

Marie Dehmer

Quality Assurance Representative



Manufacturer of Piping and Pressure Vessel Components

4407 Haygood St - Houston, TX 77022

Phone: 713-695-3633 Fax: 713-695-3528

A Bonney Forge Company

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Sold To: TRANS AM PIPING
 PRODUCTS LTD
 9335 ENDEAVOR DRIVE S.E.
 CALGARY AB T3S 0A1

MTR #: 203,925

PO #: CI-11-165

Sales Order #: C001101776

Date: 03/08/2011

Certified Material Test Report

Heat Code: 58266

This product has not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment. No welding performed.

We certify that the contents of this report are correct and accurate, and that all test results and operations performed by WFI or its subcontractors are in compliance with the material specification and requirements of the referenced code or standard, and that the material conforms to the dimensional requirements of the order. This document is in accordance with EN10204 3.1.

Material: A/SA105N 09

Item	Description
11	36 - 1 1/2 X 3/4 3M THP A/SA105N

Chemical Composition

Ladle	C	CR	CU	MN	MO	NB	NI	P
	0.200	0.03	0.150	1.01	0.010	0.01	0.04	0.007
	S	SI	V					
	0.017	0.20	0.00					

Carbon Equivalency: Ladle 0.39

	Tensile PSI	Yield PSI	Elong %	RA %	Hardness
Product:	74,500	51,000	30.00	68.00	143 BHN
Normalized					143 BHN

1. IN ACCORDANCE WITH NACE SPEC MR0175-2002

Marie Dehmer
 Quality Assurance Representative

3020 FORON RD.

Material Test Report

Scot Order No:	742150.01	Country of Origin:	CHINA	CN
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Material Supplier:	9687.00
Part Number:	9A-C1609-016-0420
Scot Rec. No:	10071119

Chemical Analysis

[illegible]

Mechanical Test Results

Yield Strength:(PSI)	Tensile Strength:(PSI)	Elongation:(%) in 2" G.L.	ROA:(%)	Hardness
56564	66717	38		()

[illegible]

Eddy Current
OK

The reported analysis and test results are certified to be the same as furnished to us by our supplier. All records and test reports covering the above materials are on file at Scott Industries and may be examined by your personnel or by any agent authorized by you.

Shang hoo Kee
Quality Assurance
12/30/10

