


EMERSON
Process Management

66150875
18059
Daniel Industries Canada Inc.
P.O. Box 727, Stn T (T2H 2H2)
4215 - 72 Avenue S.E.
Calgary, Alberta T2C 2G5
Canada

T 403-279-1879
F 403-236-1337
www.daniel.com

Meter Tube Nameplate Facsimile

For use with AGA Report 3/API 14.3, Part 2, Third and Fourth Editions

DANIEL _____ a division of Emerson Process Management		Made in Canada	
DATE: OCT/30/2008	AGA FIG: CPA50E 2000	UL: 39.000	
TAG:	MAX BETA: .70	DL: 23.500	
S/N: DCM08-01508	MAX ORIFICE: 2.029	Dr: 2.899	
CRN: OFO939.213	MIN ORIFICE: .435	ANSI/DMT: 600	
OFO634.21	OFO818.3		
Daniel Industries Canada	Ph: 403-279-1879	Fax: 403-236-1337	

Daniel Canada WO: 7027281

Orifice Fitting S/N: 06460172

Rev 1, 2004-11-29

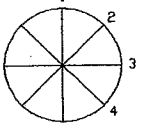
DANIEL®



Orifice Meter Inspection Certificate
AGA3/API 14.3, Part 2, 2000 Edition

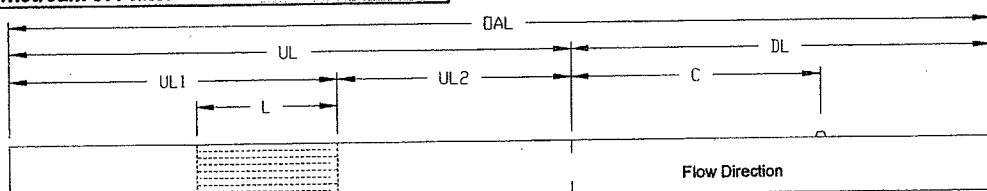
DANIEL
Daniel Industries Canada Inc.

Customer Information		General Meter Tube Information	
Customer:	PLATINUM	Inspection Number:	
Customer P.O.:	S1229545	Meter Tube Serial No.:	DCM08-01508
Customer Job No.:	7027281	Manufacturer:	Daniel Canada
Location/LSD:	N/A	Inspection Criteria:	AGA3/API 14.3, Part 2, 2000 Edition
Meter Tag No.:	N/A	AGA3 Configuration:	CPA 50E
Meter Name:	N/A	Nominal Line Size:	3"
		Pipe Schedule:	80
		Published I.D. (in.):	2.9

Measured Internal Diameter of Meter Tube				
Position	I.D. Measurements 1" Upstream from the Upstream Face of Orifice Plate (in.)	Calculations		
	1	2.900	Coefficient of Thermal Expansion, α_r :	0.00000620
	2	2.900	Meter Tube Temperature, T_m (°F):	63.0
	3	2.899	Reference Temperature, T_r (°F):	68.0
	4	2.897	Measured Meter Tube I.D., D_m (in.):	2.899
			Calculated Meter Tube I.D., D_r (in.):	2.899

Verification of the Internal Diameter of the Meter Tube				
Note: Internal diameter measurements are checked in a minimum of 4 equally spaced planes at various locations along the length of the meter tube. Max./Min. values for various sections of the meter tube are recorded below. Locations of these check measurements include the orifice fitting, welds, adjoining flanges and pipe.				
	Within 1D _m Upstream of Orifice Plate	Downstream	Entire Upstream Section	
Tolerance (in.):	0.007	0.014	Max. Tolerance (%):	0.500
Allowable Max. (in.):	2.906	2.913	Recorded Max. (in.):	2.900
Allowable Min. (in.):	2.892	2.885	Recorded Min. (in.):	2.891
Recorded Max. (in.):	2.899	2.901	Actual Tolerance (%):	0.310
Recorded Min. (in.):	2.897	2.895	Results:	Pass
Results:	Pass	Pass		

Orifice Plate and Sealing Unit					
	Max.	Min.		U/S	D/S
Beta Ratio:	0.70	0.15	Orifice Plate Thickness:	0.125"	
Bore Size (in.):	2.029	0.435	Orifice Plate Eccentricity:	N/R	
			Orifice Plate Bypass:	N/R	
			Plate Seal Protrusion:		
			Plate Seal Gap:		

Internal Surface Roughness		Meter Tube Configuration and Dimensions	
Within 17D U/S of Plate:	Pass	Flow Conditioner or Vane:	CPA 50E
Beyond 17D U/S of Plate:	Pass	1st. Downstream Connection:	3/4" NPT
Downstream of Plate:	Pass	Note: All dimensions are shown in inches unless specified otherwise.	
		OAL:	62.500
		UL:	39.000
		UL1:	14.750
		UL2:	23.750
		L:	0.500
		DL:	23.500
		C:	14.000

Orifice Fitting Information		Flange Tap Information	
Manufacturer:	Daniel	Quantity:	4 Sets
Model No.:	015C	Diameter:	Pass
Serial No.:	06460172	Location:	
ANSI Class:	600#	Size:	0.5
		Flange Taps Relative to Center of Meter Tube:	
		No. of DP Sensors:	
		Static Pressure Sensor:	

Comments and Notes (Indicate if attachments are included)	
CPA50E HT #2XB8 SN 1786100068	
Inspector Signed	PETER HARDER
Date	OCT/30/2008
Witness Signed	
Date	

Č. ext. obj. - External order No. : 061221

List č. - Sheet No. : 1 / 2

Číslo položky - Item number : 3

Identifikačné číslo - Item number : 113-012112

Č. obj. prij. - Consignee order No. :
51-1253

Číslo zakazky výrobcu - Manufacturer's works order number :
Br 69738/1/4 762A078

Číslo ložného listu - Loading Bill No. : 797462

Číslo aviza - Dispatch note : 764536

Výrobok - Product :

Zákazník/Prijemca - Customer/Consignee :

CPW AMERICA CO.
14800 ST. MARY'S LANE, SUITE 140
77079 HOUSTON TEXAS
U.S.A.

Rúry oceľové bezošvé, ťahané za studena - rúry pre potrubia pre horľavé médiá
Seamless cold-drawn steel tubes - pipelines for combustible fluids

Vonkajší priemer - Outside diameter : 88.900 mm

Vnútorný priemer - Inside diameter : 73.660 mm -0.17 +0.12 mm

Dĺžka - Length : min. 7620 mm max. 9144 mm

Inch rozmer - Inch : OD 3.500" X ID 2.900" X 80 SCH

Počet kusov - Number of pieces : 80

Celková dĺžka - Total length : 714.00 m , 2342.50 ft

Celková hmotnosť - Total mass : 11012 kg , 24277.40 lb

Material - Material :

X42/PSL 1 API Spec. 5L/2004/ , B/PSL 1 API Spec. 5L/2004/ ,
Grade B ASTM A 53 / A 53M/2004/ , Grade B ASTM A 106/2004/ ,
Grade B ASME SA-106/2004/ , Grade B ASME SA-53/2004/

Stav dodania - Products as delivered condition : NBK

Technické predpisy - Technical requirements/Demand :

ASTM A 106/A 106M-04b , ASTM A 53/A 53M-04a , ASME SA-106 E2004 , ASME SA-53/SA-53M E2004 , API Spec.5L/2004 ,
S-00022H rev.2/96

Číslo tavby Cast number	Počet kusov Number of pieces	Dĺžka Length [m]	Hmotnosť Mass [kg]	Druh tavenia Steelmaking process
62312	80	714	11012	E

Druh ocele - Steel grade : úplne uhl'udnená oceľ - fully killed steel

Chemické zloženie - Chemical composition :

Číslo tavby Cast number	C [%]	Mn [%]	Si [%]	P [%]	S [%]	Cu [%]	Cr [%]	Ni [%]	Mo [%]	V [%]
Predpis - Requirements :										
	min.	0.28	0.29	0.10	0.030	0.030	0.40	0.40	0.15	0.080
	max.	0.28	1.06							
62312		0.16	0.49	0.23	0.008	0.014	0.25	0.05	0.09	0.005

Výrobová analýza - Product analysis :

Číslo tavby Cast number	C [%]	Mn [%]	Si [%]	P [%]	S [%]	Cu [%]	Cr [%]	Ni [%]	Mo [%]	V [%]
62312	1	0.17	0.48	0.22	0.009	0.013	0.25	0.05	0.09	0.005
62312	2	0.17	0.49	0.22	0.008	0.014	0.24	0.06	0.08	0.004

3" SPS AD600B PIPE
TAG: SPS
62312
DRE'S DUFF

Miesto
Location v Podbrezovej
sim

Dátum 09.06.2006
Date

Vedúci kontrolného a atestačného oddelenia Ing. Vojtas Miroslav
Engineering inspection official

WO:26291



ŽELEZIARNE PODBREZOVÁ, a. s., 976 81 Podbrezová, SLOVAKIA
Telefón / Phone: +421 48 645 40 70, 645 40 71, Fax: +421 48 645 40 72, www.oceloveny.sk, www.steelube.sk
IČO 31 562 141, IČ DPH / VAT N°: SK2020458704,
Bankové spojenie / Bank account: Citibank (Slovakia) a. s., N° 2001940001/8130
Spoločnosť je zapísaná v Obchodnom registri Okresného súdu Banská Bystrica, oddiel So, vložka číslo 69/S

Skúška ťahom - Tensile test : 20 °C

List č. - Sheet No. : 2 / 2

Z.č. №	Číslo tavby Cast number	Vzorka č. Test No	Rozmery Dimensions mm/	Smer odberu vzorky Direction of the test piece	Medza klzu Yield point - Proof stress	Pevnosť v ťahu Tensile strength	Ťažnosť Elongation
					ReH/ MPa/	Rm/ MPa/	Lo= 2"/ %/
	Predpis - Requirements : min. max.					290 ---	415 ---
1	62312	B016300.06	14.90x7.90	L	321	439	36.8

* Ťažnosť - Elongation : min. (1944*So**0.2)/(Rm**0.9)

Skúška stlačením vyhovela.

Flattening test without objections.

Skúška virivými prúdmi vyhovela

Eddy current test without objections ASTM E-309 100 %

Drsnosť vnútorný povrch Ra max. 6.3 µm.

Roughness inner surface Ra max. 6.3 µm.

Všetky výrobky vyhovujú vyššie uvedeným normám a požiadavkám v objednávke.

All products meet requirements of above mentioned standards and requirements specified in order.

Vizuálna kontrola a rozmery vyhoveli (100 %).

Visual inspection and dimensional check without objections (100 %).

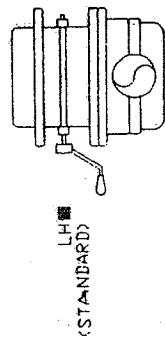
Miesto
Location

v Podbrezovej
sim

Dátum 09.06.2006
Date

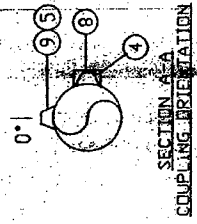
Vedúci kontrolného a atestačného oddelenia Ing. Vojtas Miroslav
Engineering inspection official



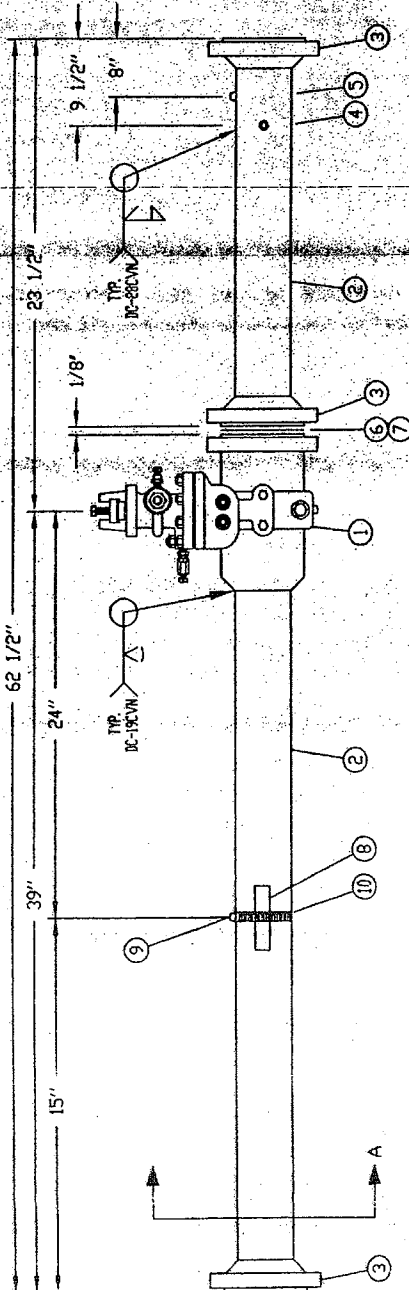


LH (STANDARD)

SECTION A-A
SHAFT ORIENTATION



SECTION A-A
COUPLING ORIENTATION



FLOW DIRECTION

NOTES & TAGGING

MANUFACTURED IN ACCORDANCE WITH ASME B31.3
MANUFACTURED IN ACCORDANCE WITH AGA-3 2000 CPA TBR
METER RUN TAG TO BE PLACED @ 90 DEG NEAR #5 TOL
-
-
-
AGS. QUOTE: 3965

SPECIFICATIONS

QUANTITY: 4
LINE SIZE: 3"
RATING: 600#
MODEL: 015C, WCB
TYPE: FLANGNEK SENIOR
TRIM: SWEET
AGA FIG/CPA TBR 2000
BETA: 0.7
CRN: 0F09392
OF06342

APPROVED FOR CONSTRUCTION

DATE: 07/07/11

BY: [Signature]

REV: 1

REV: 2

REV: 3

REV: 4

REV: 5

REV: 6

REV: 7

REV: 8

REV: 9

REV: 10

REV: 11

REV: 12

REV: 13

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REV: 261

REV: 262

REV: 263

REV: 264

REV: 265

REV: 266

1

A technical drawing of a base plate. It shows a rectangular base with a circular feature on top, labeled with the number 3. A vertical dimension line is shown to the right of the base, indicating a height or distance.



Daniel Industries Canada Inc.
P.O. Box 727, Stn T (T2H 2H2)
4215 - 72 Avenue S.E.
Calgary, Alberta T2C 2G5
Canada
T 403-279-1879
F 403-236-1337

Date: Nov 3/08

Customer: Platinum

Re: Affidavit of Hydrostatic Test
Daniel Work Order #

27281

Daniel Industries Canada hereby certifies that these goods were hydrostatically tested and meet the Leak Test requirements of:

ASME B31.3 (✓) ASME B21.1 ()

Senior (✓) Simplex () OFU () Spools ()

Size /ANSI: 3" 600#

Pressure: 2225 PSIG

Hour(s): 1hr

Serial #: 06460172

Serial #:

Serial #:

Serial #:

Serial #:

Serial #:

Inspected by Daniel Q.C.

Regards,

A handwritten signature in black ink, appearing to read "JBL", written over a horizontal line.

Jason Becker
Shop Foreman

DANIEL®