



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416.734.3300
Fax: 416.231.1626
Toll Free: 1.877.682.8772

www.tssa.org

January 11, 2017

CHAD THOMAS
ENGINEERED CONTROLS INTERNATIONAL LLC
100 REGO DR
ELON NC 27244
US

Service Request Type: BPV-Fitting Registration

Service Request No.: 2000416

Your Reference No.:

Registered to: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD THOMAS,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN No.: 0H19073.5

Main Design No.:

Dwg. No. MVE7C SER Rev. A, Economizer Circuit Assembly w/o Check Valve

Expiry Date:

11-Jan-2027

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

The stamped copy of the approved registration and the invoice are mailed separately. Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Mark Valcic P. Eng.
Engineer BPV
Tel.: 416-734-3494
Fax: 416-231-1626
Email: mvalcic@tssa.org



Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
Fax: 416.231.6183
Customer Service: 1.877.682.8772
www.tssa.org

CLIENT

**National Design Registration
Application for a CRN**
Technical Standards and Safety Act
Boilers and Pressure Vessels Regulation

INTAKE GROUP

Date: 2000416 - ONT
SR #: 2000420 - NAR
Agent: 2000420 - NAR

Date of Application (mm/dd/yyyy):

12/16/2016

☐ Expedited Service (please attached request form)

Please indicate the type of design: ☐ Boiler ☐ Pressure Vessel ☒ Fitting

Existing CRN: _____ (if applicable)

Section A: Submitter	Section B: Invoicee
Company Name: <u>ENGINEERED CONTROLS INTERNATIONAL, LLC.</u>	Company Name: _____
Address: <u>100 REGO DRIVE</u>	Address: _____
City/Town: <u>ELON</u> Province/State: <u>NC</u>	City/Town: _____ Province/State: _____
Postal/Zip Code: <u>27244</u> Country: <u>USA</u>	Postal/Zip Code: _____ Country: _____
Telephone: <u>336-449-7707</u> Fax: _____	Telephone: _____ Fax: _____
Contact Name: <u>CHAD THOMAS</u>	Contact Name: _____
E-mail: <u>cthomas@regoproducts.com</u>	E-mail: _____
Job No./Reference: _____	Purchase Order No.: _____
Drawing/Catalog No.: <u>MVE 7C</u>	_____
Acct/Cust No.: <u>A-400283 C-913915</u>	Acct/Cust No.: _____

Section C: Owner of Design/CRN Same as: ☒ A ☐ B ☐ D	Section D: Manufacturer Same as: ☒ A ☐ B ☐ C
(If more than one please attach list)	
Company Name: _____	Company Name: _____
Address: _____	Address: _____
City/Town: _____ Province/State: _____	City/Town: _____ Province/State: _____
Postal/Zip Code: _____ Country: _____	Postal/Zip Code: _____ Country: _____
Telephone: _____ Fax: _____	Telephone: _____ Fax: _____
Contact Name: _____	Contact Name: _____
E-mail: _____	E-mail: _____
Acct/Cust No.: _____	Acct/Cust No.: _____

Registration required in the following jurisdictions:

- | | | | |
|--|--|--|---|
| ☒ Ontario | ☒ Saskatchewan | ☒ New Brunswick | ☒ Newfoundland and Labrador |
| ☒ British Columbia | ☒ Manitoba | ☒ Nova Scotia | ☒ Yukon |
| ☒ Alberta | ☒ Quebec | ☒ Prince Edward Island | ☒ Northwest Territories |
| | | | ☒ Nunavut |

Deposit included: ☐ CDN \$600.00 - Ontario and up to 2 additional provinces ☒ CDN \$1,200.00 - Ontario and 3 or more additional provinces

Cheque No. _____ Amount \$ _____

(Deposit to be applied to the incurred fees when all jurisdictions are complete - any charges over and above deposit amount will be invoiced at that time.)

Return mail address: ☐ A ☐ B ☐ C Optional: Courier Collect Courier name: _____

Account No.: _____

Signed: Chad M. Thomas Date (mm/dd/yyyy): 12/16/2016

Date: <u>JAN 11, 2017</u> (mm/dd/yyyy)	Reviewing Engineer: <u>MARK VALCIC</u>	CRN Issued: <u>0119073.5</u>
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Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



STATUTORY DECLARATION Registration of Fittings

I, **CHAD THOMAS, VP GLOBAL ENGINEERING**

(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of **ENGINEERED CONTROLS INTERNATIONAL, LLC**

(Name of Manufacturer)

Located at **100 REGO DRIVE, ELON, NC - 27244**

(Plant Address)

336-449-7707

(Telephone No.)

(Fax No.)

☒ do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of **ASME B31.1**

(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

☐ or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of **ISO90001**

which has been verified by the following authority, **UNDERWRITERS LABORATORY INC**

The items covered by this declaration, for which I seek registration, are category **"H"** type fittings. In support of this application, the following information and/or test data are attached as follows:

SEE ATTACHED LIST

(drawings, calculations, test reports, etc.)

Declared before me at **Engineered Controls Int'l/Elon** in the **County** of **Alamance, NC**

the **16th** day of **December** AD 20 **16**

Commissioner for Oaths:

Marisa E. Elliott

(Printed name)

Marisa E. Elliott

(Signature)

(Signature of Declarer)

Boilers and Pressure Vessels Safety Program

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category **"H"**

CRN:

0419073.5

Registered by:

MARK VALCIC, P.ENG.

Dated:

JAN 11, 2017

NOTE: This registration expires on:

JAN 11 2017

NOTE: DWG. NO. MVE7C SER REV. A
CONDENSER CIRCUIT ASSEMBLY

MARISA E. ELLIOTT
NOTARY PUBLIC
ALAMANCE COUNTY
NORTH CAROLINA

My Commission Expires 8/31/2021

Technical Standards and Safety Authority

REGISTERED

0419073.5

C.R.N.: **0419073.5**

Signed: **Jan 11, 2017**

Date: **Jan 11, 2017**

Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	MVE7C	Economizer Circuit Assembly	9475ES-1A	9475ES-1A	Forging Brass, UNS C37700, ASTM B283	600
			1337-58S	1337-58S	Stainless Steel Pipe, ASTM A249, TP304L	600
			1337CS-22 SER	1337CS-22A	Stainless Steel Pipe, ASTM A249, TP304L	600
			1337-50AS	1337-50AS	Stainless Steel Pipe, ASTM A249, TP304L	600
			BK9450-5	BK9450-5	FC Brass Rod, UNS C36000, ASTM B16	600





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Toronto, Ontario
CANADA M9W 6N9
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May 01, 2017

CHAD CHAD
ENGINEERED CONTROLS INTERNATIONAL LLC
100 REGO DR
ELON NC 27244
US

Service Request Type.: BPV-National BC
Service Request No.: 2036148
Your Reference No.:
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD CHAD,

Please find enclosed the original response from BC, registered under the CRN No.: 0H19173.51.

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

Should you have any questions or require further assistance, I will be happy to assist you.
For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Joanna Karpinski

Tel: 416-734-3377
Fax: 416-231-6183
Email: jkarpinski@tssa.org

TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON M9W 6N9

Date: March 19, 2017
Account #: 35231
Journal #: 67603
Our File #: 5613301

Attn: TANYA FRANCIS

Re: Application for Design Registration

The design, as detailed in your, TSSA SR# 2036148, for a Fitting is accepted for registration as follows:

Registered To: ENGINEERED CONTROLS INTERNATIONAL LLC
CRN: 0H19173.51

MAWT: 165 deg F

MAWP: 600 psig

Drawing #: MVE5C

Drawing Revision: F

Conditions Of Registration:

Registration of Vent Assembly MVE5c, Parts List (att'd 3 pages).

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

Reviewer's Notes:

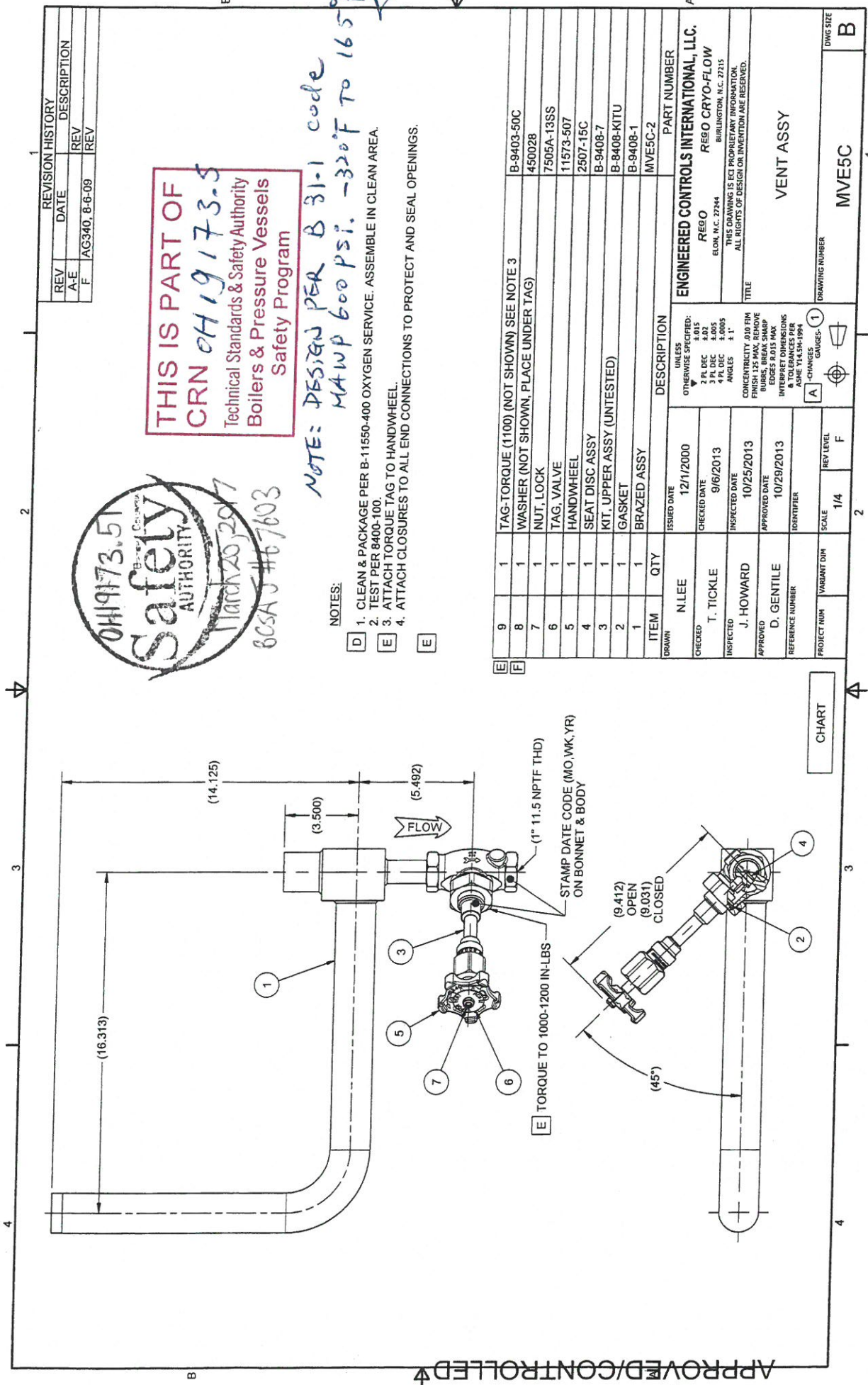
Design & constructed in accordance with B31.1 code. The assembly shall be pressure tested per paragraph 137 in ASME B31.1. As required by CSA B51 4.2.1, this registration expires on February 14, 2027. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid Q.C. program verified by an acceptable third-party agency until that date. Should the certification of the Q.C. program lapse before the expiry date, this registration shall become void.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

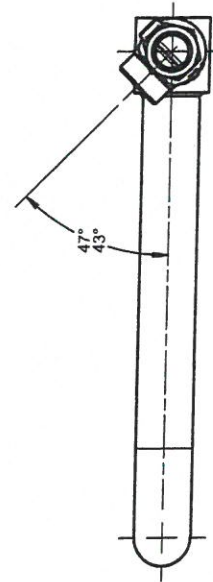
SHARON PETERS

boiler.designregistration@safetyauthority.ca
Design Administration

cc:



APPROVED/CONTROLLED



47°
43°

THIS IS PART OF
CRN 0419173.5
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

- NOTES:**
1. APPLY 11550-76 FLUX.
 2. BRAZE WITH 702670 BRACING ALLOY.
 3. CLEN PER 11550-36.
 4. STORE CLEAN.

[illegible]

Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	MVE5C	Vent Assembly	B-9407-1C	B-9408ST-1	Bronze Cast Alloy, UNS C92200, ASTM B61	600
			2227-23	2227-23	FC Brass, UNS C36000, ASTM B16	600
			1337B-22 SER	1337B-22D	Stainless Steel Pipe, ASTM A312, TP304L	600
			1337-57	1337-57	Stainless Steel Pipe, ASTM A312, TP304L	600
			1337-2	1337-2	Stainless Steel Pipe, ASTM A249, TP304L	600



THIS IS PART OF
 CRN OH19173-5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program



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Toronto, Ontario
CANADA M9W 6N9
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www.tssa.org

September 05, 2017

CHAD THOMAS
ENGINEERED CONTROLS INTERNATIONAL LLC
100 REGO DR
ELON NC 27244
US

Service Request Type.: BPV-National AB
Service Request No.: 2017716
Your Reference No.:
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD THOMAS,

Please find enclosed the original response from AB, registered under the CRN No.: 0H19073.5(ON), 0H17875.2(AB).

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

Should you have any questions or require further assistance, I will be happy to assist you. For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Joanna Karpinski

Tel: 416-734-3377
Fax: 416-231-6183
Email: jkarpinski@tssa.org

August 09, 2017

Attention: Tanya Francis
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO, ON M9W 6N9

Email: tfrancis@tssa.org

The design submission, tracking number 2017-00610, originally received on February 02, 2017 was surveyed and accepted for registration as follows:

CRN : 0H17875.2

Accepted on: August 09, 2017

Reg Type: New Design

Expiry Date: August 09, 2027

Drawing No. : MVE7C SER Rev A

Fitting type: 5/8" ECONOMIZER CIRCUIT ASSEMBLY

Design registered in the name of : ENGINEERED CONTROLS INTERNATIONAL LLC

Description	MAWP	Design Temperature	MDMT
Internal Pressure	4137 kPa	74 °C	-196 °C

The registration is conditional on your compliance with the following notes:

- TSSA Service Request No.: 2017716
- As per your email on July 24 the bonnet material is B16 C36000 and has been corrected on the scope.
- As indicated on the AB-41 Statutory Declaration form the code of construction is ASME B31.3.
- This registration includes the following drawings:
 - Assembly & sub-assembly drawings: MVE7C SER Rev A, MVE7C-2A SER Rev A, C-11368265 Sheets 1 & 2 Rev G, 1332SS-5A SER Rev A, and B-9450-KITU Rev C.
 - Part drawings: 001337-58 Rev B, 9475ES-1A Rev E, 9460-1F Rev A, 1337C-22 SER Rev B, 1337-50A Rev A, 2227-21 Rev B, and BK9450-5 Rev B.

This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form. This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid QMS approved by an acceptable third-party agency until that date. Should the approval of the QMS lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

Enclosed are stamped prints for your reference.

Sincerely,



RUDOLF, KEITH, P. Eng.
DOP Cert. No. D00008862

**STATUTORY DECLARATION
Registration of Fittings**

I, Chad Thomas, V.P of Engineering
(name of applicant) (position title) (must be in a position of authority)
of Engineered Controls International, LLC.
(name of manufacturer)
located at 100 Rego Drive, Elon - 27244, NC, USA
(plant address)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.



do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (check one)

- ☐ comply with the requirements of _____ which specifies the dimensions, (title of recognized North American Standard)
materials of construction, pressure/temperature ratings and identification marking of the fittings, or
☒ are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with ASME B31.3 as supported by the attached (title of code of construction or other applicable document)
data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, ISO 9001 / UL INC as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are **Category "H"**

(brief description of fittings)
In support of this application, the following information, calculations and/or test data are attached:

See attached list

DECLARED before me at Elon in the County of Alamance - NC
(city) (province or state)
this 1st day of June, 2017
(Month) (Year)

(print) Marisa E. Elliott
(a Commissioner of Oaths or Notary Public)

(sign) Marisa E. Elliott
(a Commissioner of Oaths or Notary Public)

**MARISA E. ELLIOTT
NOTARY PUBLIC
ALAMANCE COUNTY
NORTH CAROLINA**

Chad Thomas my commission expires 8/31/22
(signature of applicant)

For ABSA Office Use Only:

NOTES:

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Clause 4.2, and is accepted for registration in Category H

Registration Number: 0H17875.2

Date Registered: AUG 09 2017

Heath Russell
(Signature of the Administrator/SCO)

Expiry Date: Aug 09 2027

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline.

**"See Acceptance Letter for the comments
and/or conditions of registration"**

Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	MVE7C	Economizer Circuit Assembly	9475ES-1A	9475ES-1A	Forging Brass, UNS C37700, ASTM B283	600
			1337-58	1337-58	Stainless Steel Pipe, ASTM A249, TP304L	600
			1337C-22 SER	1337C-22A	Stainless Steel Pipe, ASTM A249/A269, TP304L	600
			1337-50A	1337-50A	Stainless Steel Pipe, ASTM A249, TP304L	600
			BK9450-5	BK9450-5	FC Brass Rod, UNS S30403, ASTM B16	600

psi MK

C36000

MK

Service Request # 2000416

ABSA	
SAFETY CODES ACT - PROVINCE OF ALBERTA	
REGISTRATION OF FITTINGS	
REGISTRATION NO.	0H17875.2
DWG. NO. or CAT. NO.	MVE7C SER Rev A
TYPE OF FITTINGS	5/8" Assembly
DATE	AUG 09 2017
INITIALS	<i>Keith Rudolph</i>
Keith Rudolph, P.Eng. DESIGN SURVEY ENGINEER	

"See Acceptance Letter for the comments
and/or conditions of registration"

0H17875.2

CERTIFICATE



This is to certify that

Engineered Controls International, LLC

100 Rego Drive
Elon, NC 27244
United States of America

with the organizational units/sites as listed in the annex

has implemented and maintains a **Quality Management System**.

Scope:

The design and manufacture of valves, regulators and fittings for the L.P. Gas, Anhydrous Ammonia, LNG, and Compressed Gas Industries.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001 : 2008

Certificate registration no.	10001523 QM08
Date of original certification	1994-10-04
Date of certification	2015-12-22
Valid until	2018-09-14



DQS Inc.

Ganesh Rao
Managing Director

Accredited Body: DQS Inc., 1130 West Lake Cook Road, Suite 340, Buffalo Grove, IL 60089 USA



0H17875.2

Annex to Certificate
Registration No. 10001523 QM08

Engineered Controls International, LLC

100 Rego Drive
Elon, NC 27244
United States of America

Location

10003889
Engineered Controls International, LLC
3181 Lear Drive
Burlington, NC 27215
United States of America

10003890
Engineered Controls International, LLC
911 Industrial Drive S.W.
Conover, NC 28613
United States of America

This annex (edition: 2015-12-22) is only valid in connection
with the above-mentioned certificate.

AUG 09 2017



AUG 09 2017



NOTES:

1. APPLY 11550-78 FLUX.
2. BRAZE WITH 702870 BRAZING ALLOY.
3. CLEAN PER 8-11550-302.
4. REMOVE OXIDES FROM BRAZED JOINTS.
5. STORE CLEAN.

5	1	QTY	ITEM	1	PIPE	1	BODY	2	1	PIPE BENT	4	1	TEE	1	4	1	SEER TUBE ASSY
ENGINEERED CONTROLS INTERNATIONAL LLC. FIELD CRYO-FLOW FIELD 1705 BARNER BLVD. ROXBURY, MASSACHUSETTS 01515 MASSACHUSETTS, U.S.A. TEL: 617-274-1100 SEE TABLE 2227-27 SEE TABLE 947SES-1A SEE TABLE																	
ENGINEERED CONTROLS INTERNATIONAL LLC. FIELD CRYO-FLOW FIELD 1705 BARNER BLVD. ROXBURY, MASSACHUSETTS 01515 MASSACHUSETTS, U.S.A. TEL: 617-274-1100 SEE TABLE 2227-27 SEE TABLE 947SES-1A SEE TABLE																	
ENGINEERED CONTROLS INTERNATIONAL LLC. FIELD CRYO-FLOW FIELD 1705 BARNER BLVD. ROXBURY, MASSACHUSETTS 01515 MASSACHUSETTS, U.S.A. TEL: 617-274-1100 SEE TABLE 2227-27 SEE TABLE 947SES-1A SEE TABLE																	

- Degreased, cleaned and packaged for liquid oxygen service per CGA G4.1
- Maximum working pressure for circuit is 600 psi
- Working temperature range is -320°F to 165°F
- For use with nitrogen, oxygen, argon cryogenic liquids.
- Valve seat material to be Kel-F unless otherwise approved
- Valve body material to be brass unless otherwise approved.
- All tags to be of stainless steel or aluminum construction, include tag number, tag name, and located under handwheel nut. Any exceptions to be approved by Chart Ind.
- All process joints to be of seal weld construction unless otherwise noted
- All welded and brazed joints to be passivated or acid dipped
- All openings to be capped or plugged before shipment
- Vendor to supply recommended spare parts information.
- All liquid valves must be suitable for installation 45° off vertical
- Any remaining assembly by Chart Ind. must not require disassembly of valves

- See chart below for Cv rating on valves
- Tubing to be T304ss A269 or equivalent
- Tube ends to be cleaned, suitable for butt-weld connection
- Piping to be T304ss SA312
- Packing type and material suitable for cryogenic applications
- Base components and circuit must have applicable CRN #'s in all Provinces
- Must be manufactured to the applicable ANSI code sections and pressure tested per B31.3
- Valve pressure test/leak rates must conform to MSS-SP80
- Color scheme (See B.O.M. pg. #1)
- Any and all exceptions to this specification to be approved and agreed upon by Chart Ind.

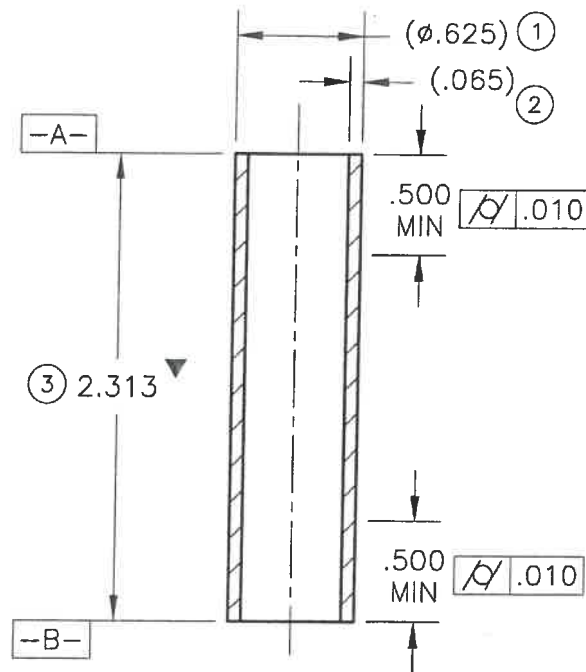
MINIMUM Cv REQUIREMENTS ON GLOBE VALVES	
VALVE SIZE	Cv
3/8"	1.08
1/2"	3.9
3/4"	6.7
1"	11.2
1-1/4"	21
1-1/2"	25.1
2"	40

0H17875.2

AUG 09 2017

REV	ECR NO	REVISION DESCRIPTION	BY	DATE	APPROVED	DATE
					JEN	9/6/00
THE MATERIALS AND INFORMATION, INCLUDING THE PRINCIPLES OF DESIGN CONTAINED IN THIS PRINT, IS THE EXCLUSIVE PROPERTY OF CHART INC., AND IS CONFIDENTIAL AND PROPRIETARY INFORMATION. THIS INFORMATION MAY NOT BE REPRODUCED, COPIED, OR LOANED, IN PART OR IN WHOLE, NOR IS THE INFORMATION TO BE RELATED TO ANY PARTY WITHOUT CHART'S PRIOR WRITTEN CONSENT.						
PART NUMBER 11368265						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ± 1/8 FRACTIONS ± 1/8 ANGLES ± 1° SURFACE FINISHES ± RA 2 PLACE DECIMALS ± RA						
MET ASSY APPLICATION USED ON QUANTITY REQ'D				MET ASSY USED ON QUANTITY REQ'D		
TITLE ECONOMIZER CIRCUIT 01						
W/O CHECK VALVE REGO B31.3						
DRAWING NO. C-11368265						
SCALE 1/2"=1"						
DO NOT SCALE SHEET						
REV G						
DRAWING 2 OF 2						

0H17875.2

PURCHASED ITEMNOTES:

1. MUST BE OIL, SCALE & BURR FREE.
2. SURFACES -A- AND -B- MUST BE PARALLEL TO EACH OTHER AND PERPENDICULAR TO ϕ .
3. MATERIAL:
304L SSTL TUBE PER ASME BOILER AND PRESSURE VESSEL CODE SA-249, SECTION II OF THE CODE, GRADE TP304L,
Ⓑ UNLESS OTHERWISE SPECIFIED (ASTM A-249 TP304L)

VENDOR TO PROVIDE MATERIAL CERTIFICATIONS IN ACCORDANCE WITH EUROPEAN STANDARD EN10204, 3.1.B

Ⓐ -CHANGES ① -GAGES

.625 OD X .065 WALL
304L SSTL TUBING

701869

MATERIAL DESCRIPTION

COLOR CODE

SPECIFICATION

NUMBER

DRAWN <i>T. Zichler</i>	ENGINEER <i>J. Open</i>
CHECKED <i>D. Williams</i>	APPROVED <i>J. Open</i>
ORIGINAL DATE 12-06-00	PLOT GENERATED: 11-13-03

REGO® CRYO-FLOW PRODUCTS
BURLINGTON, N.C. 27215

UNLESS OTHERWISE SPECIFIED:

▼ PL. DEC. ± .015
2 PL. DEC. ± .02
3 PL. DEC. ± .005
4 PL. DEC. ± .0005
ANGLES ± 1°

CONCENTRICITY .010 FIM
FINISH 125 MAX
REMOVE BURRS, BREAK
SHARP EDGES R.015 MAX

INTERPRET DIMENSIONS &
TOLERANCES IAW
ASME Y14.5M-1994

SCALE (1:1)

THIS DRAWING IS ECII PROPRIETARY INFORMATION
ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED

TITLE:

TUBING

DRAWING NO.

001337-58

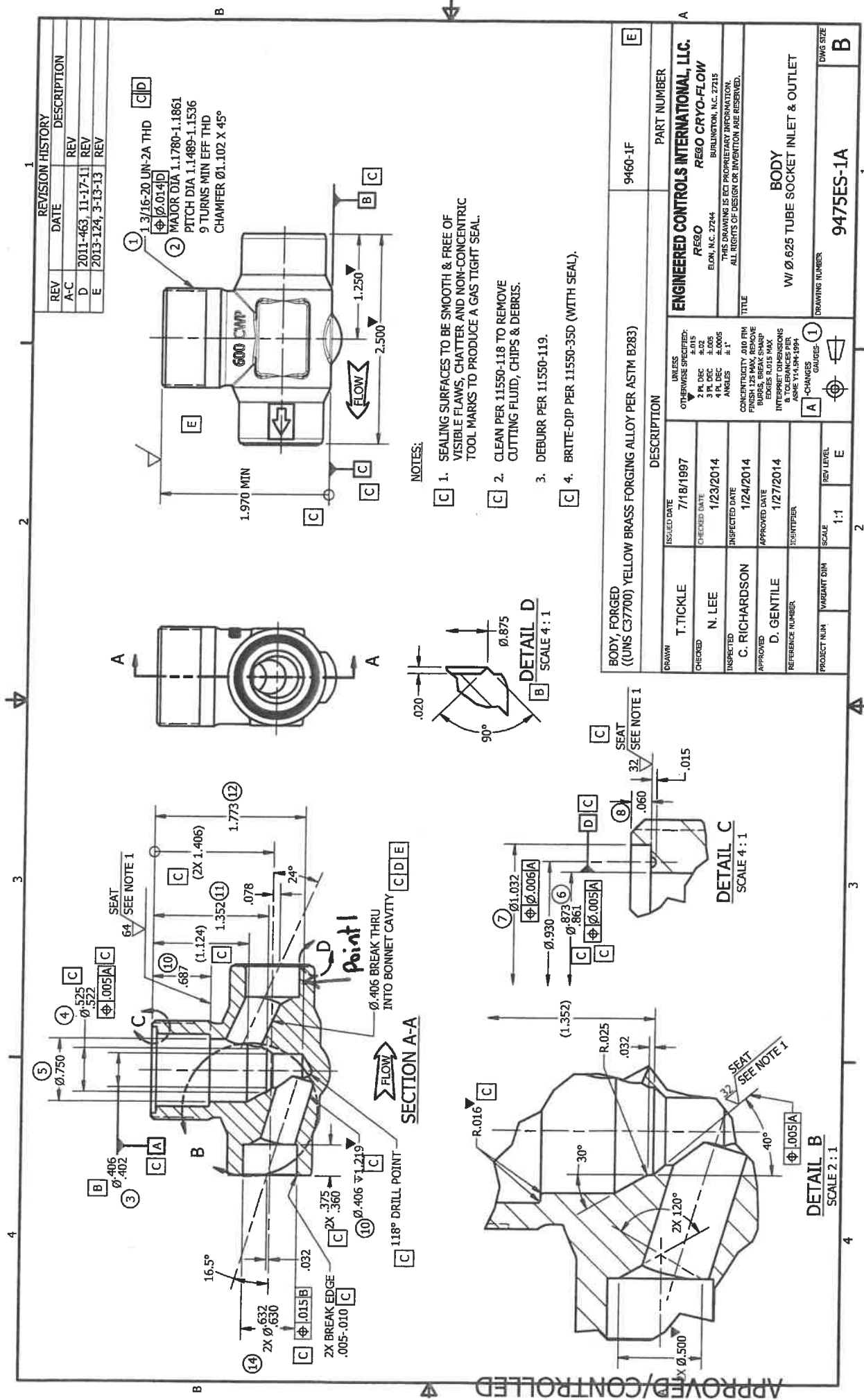
DWG SIZE

A

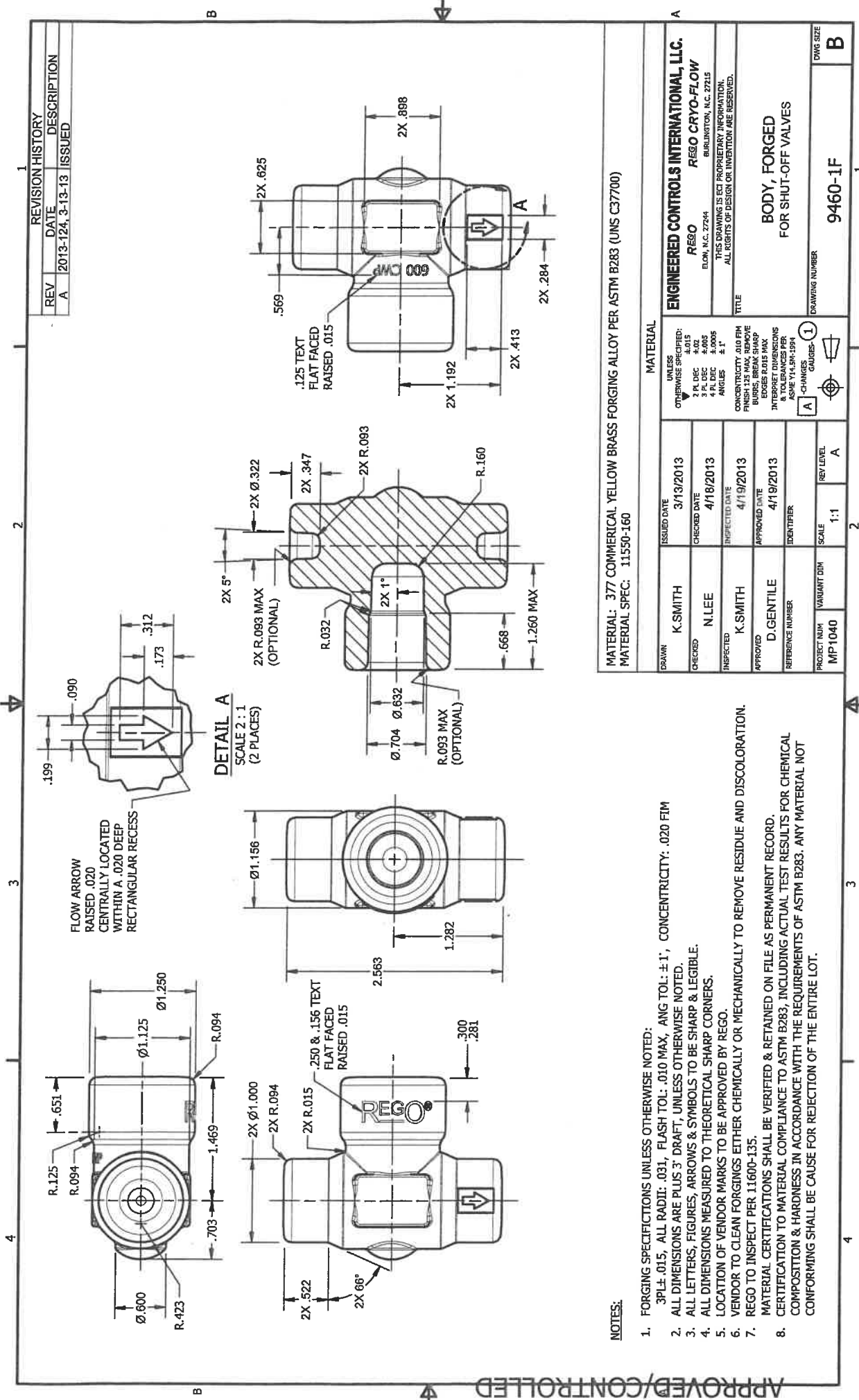
REVISIONS

A	A466, 12-06-00 ISSUED
B	A883, 4-16-03 REV

0H17875.2



0H17875.2



REVISION HISTORY		
REV	DATE	DESCRIPTION
A	2013-12-4	3-13-13 ISSUED

MATERIAL: 377 COMMERCIAL YELLOW BRASS FORGING ALLOY PER ASTM B283 (UNS C37700)
MATERIAL SPEC: 11550-160

- NOTES:
- FORGING SPECIFICATIONS UNLESS OTHERWISE NOTED:
3PL±.015, ALL RADII: .031, FLASH TOL: .010 MAX, ANG TOL: ±1', CONCENTRICITY: .020 FIM
 - ALL DIMENSIONS ARE PLUS 3' DRAFT, UNLESS OTHERWISE NOTED.
 - ALL LETTERS, FIGURES, ARROWS & SYMBOLS TO BE SHARP & LEGIBLE.
 - ALL DIMENSIONS MEASURED TO THEORETICAL SHARP CORNERS.
 - LOCATION OF VENDOR MARKS TO BE APPROVED BY REGO.
 - VENDOR TO CLEAN FORGINGS EITHER CHEMICALLY OR MECHANICALLY TO REMOVE RESIDUE AND DISCOLORATION.
 - REGO TO INSPECT PER 11600-135.
 - MATERIAL CERTIFICATIONS SHALL BE VERIFIED & RETAINED ON FILE AS PERMANENT RECORD.
 - CERTIFICATION TO MATERIAL COMPLIANCE TO ASTM B283, INCLUDING ACTUAL TEST RESULTS FOR CHEMICAL COMPOSITION & HARDNESS IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM B283. ANY MATERIAL NOT CONFORMING SHALL BE CAUSE FOR REJECTION OF THE ENTIRE LOT.

MATERIAL

DRAWN	K.SMITH	ISSUED DATE	3/13/2013
CHECKED	N.LEE	CHECKED DATE	4/18/2013
INSPECTED	K.SMITH	INSPECTED DATE	4/19/2013
APPROVED	D.GENTILE	APPROVED DATE	4/19/2013
REFERENCE NUMBER		IDENTIFIER	
PROJECT NUM	MP1040	VARIANT DIM	
SCALE	1:1	REV LEVEL	A
DWG SIZE	B		

ENGINEERED CONTROLS INTERNATIONAL, LLC.
REGO
BURLINGTON, N.C. 27215

REGO CRYO-FLOW
BURLINGTON, N.C. 27215

THIS DRAWING IS ECI PROPRIETARY INFORMATION.
ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.

TITLE
BODY, FORGED
FOR SHUT-OFF VALVES

DRAWING NUMBER
9460-1F

DWG SIZE
B

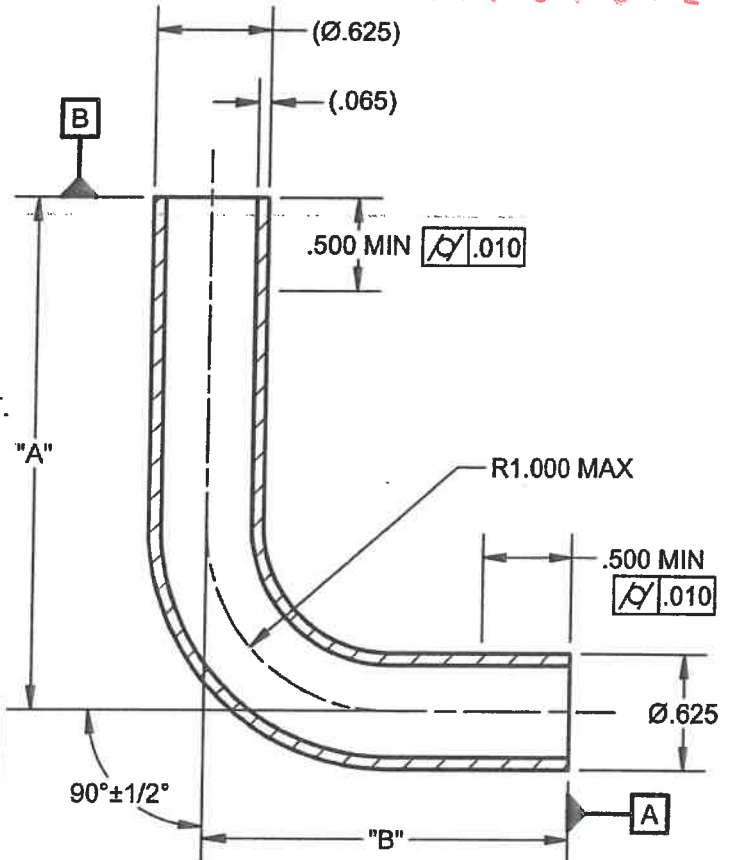
NOTES:

1. MUST BE OIL, SCALE & BURR FREE.
2. SURFACES **A** AND **B** MUST BE PERPENDICULAR TO EACH OTHER AND PERPENDICULAR TO ϕ .
3. CERTIFICATION OF MATERIAL COMPLIANCE **B** TO ASTM A249 OR A269 AND EUROPEAN STANDARD EN10204, 3.1, SHALL BE FURNISHED WITH EACH LOT OF MATERIAL, INCLUDING ACTUAL TEST RESULTS FOR MECHANICAL PROPERTIES & CHEMICAL COMPOSITION IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A249 OR A269. ANY MATERIAL NOT CONFORMING SHALL BE CAUSE FOR REJECTION OF THE ENTIRE LOT.

PIPE NIMBER	A DIM	B DIM
1337C-22A	2.730-2.770	1.980-2.020
1337C-22B	6.766-6.806	2.200-2.240
1337C-22C	7.390-7.430	2.600-2.640
1337C-22D	5.551-5.581	4.047-4.077
1337C-22E	6.801-6.831	4.047-4.077

REVISION HISTORY		
REV	DATE	DESCRIPTION
A	2011-478, 12-5-11	ISSUED
B	2014-352, 9-29-14	REV

0H17875.2



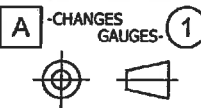
ALTERNATE MATERIAL: 5/8" OD X .065 WALL (UNS S30403) STAINLESS STEEL TUBING PER ASTM A269 GRADE TP304L MATERIAL SPEC: 11550-304LB

MATERIAL: 5/8" OD X .065 WALL (UNS S30403) STAINLESS STEEL TUBING PER ASTM A249 GRADE TP304L MATERIAL SPEC: 11550-304LB

DRAWN M. MCVEY		ISSUED DATE 12/5/2011	
CHECKED <i>Nlee</i>		CHECKED DATE 10-22-14	
INSPECTED <i>J. Howell</i>		INSPECTED DATE 10/22/14	
APPROVED <i>[Signature]</i>		APPROVED DATE 10/22/14	
REFERENCE NUMBER		IDENTIFIER	
PROJECT NUM	VARIANT DIM	SCALE 1:1	REV LEVEL B

UNLESS OTHERWISE SPECIFIED:
 2 PL DEC $\pm .015$
 3 PL DEC $\pm .02$
 4 PL DEC $\pm .005$
 ANGLES $\pm 1^\circ$

CONCENTRICITY .010 FIM
 FINISH 125 MAX, REMOVE
 BURRS, BREAK SHARP
 EDGES R.015 MAX
 INTERPRET DIMENSIONS
 & TOLERANCES PER
 ASME Y14.5M-1994



ENGINEERED CONTROLS INTERNATIONAL, LLC.

REGO

REGO CRYO-FLOW

ELON, N.C. 27244

BURLINGTON, N.C. 27215

THIS DRAWING IS ECI PROPRIETARY INFORMATION.
 ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.

TITLE

PIPE, BENT
5/8" NPS SCH 5S, SSTL

DRAWING NUMBER

1337C-22 SER

DWG SIZE

A

REV	DATE	DESCRIPTION
A	2012-238, 5-18-12	ISSUED

ASSEMBLY NUMBER	BENT TUBE
1332SS-5A	1337-50A
1332SS-5AS	1337-50AS

2		1	FITTING	2227-21		
1		1	TUBE, BENT	SEE TABLE		
ITEM		QTY	PART NUMBER			
DRAWN		T. TICKLE	ISSUED DATE 5/18/2012			
CHECKED		N. LEE	CHECKED DATE 7/24/2012			
INSPECTED		K. SMITH	INSPECTED DATE 7/24/2012			
APPROVED		D. GENTILE	APPROVED DATE 7/25/2012			
REFERENCE NUMBER		IDENTIFIER	SCALE 1:1			
PROJECT NUM CF946		VARIANT DIM	REV LEVEL A			
2		1	A			
TITLE						
UNLESS OTHERWISE SPECIFIED:						
3 PL DEC 4.015						
3 PL DEC 4.005						
4 PL DEC 4.005						
ANGLES ± 1°						
CONCENTRICITY .010 FIM						
FINISH .125 MAX, REMOVE BURRS, BREAK SHARP EDGES R.015 MAX						
INTERPRET DIMENSIONS AS SHOWN UNLESS OTHERWISE SPECIFIED						
ASME Y14.3M-1994						
A - CHANGES						
GAUGES - 1						
ENGINEERED CONTROLS INTERNATIONAL, LLC.						
REGO REGO CRYO-FLOW						
ELON, N.C. 27244						
BURLINGTON, N.C. 27215						
THIS DRAWING IS ECI PROPRIETARY INFORMATION. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.						
TITLE						
RISER TUBE ASSY						
1/4" NPTF THD						
DRAWING NUMBER			DWG SIZE			
1332SS-5A SER			B			

NOTES:

1. APPLY 11550-76 FLUX.
2. BRAZE PER 450048.
3. BRAZE WITH 702670 ALLOY.
4. REMOVE OXIDES FROM BRAZED JOINT.
5. CLEAN PER 11550-750.

1. APPLY 11550-76 FLUX.

2. BRAZE PER 450048.

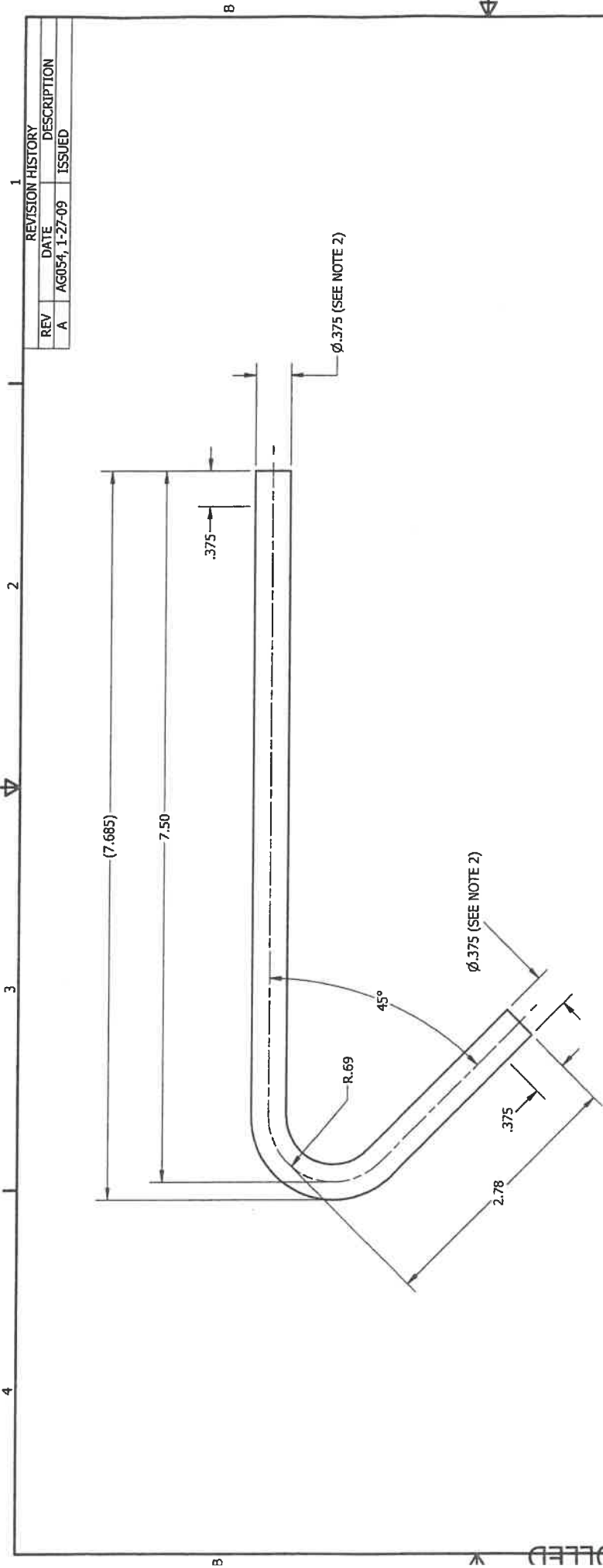
3. BRAZE WITH 702670 ALLOY.

4. REMOVE OXIDES FROM BRAZED JOINT,

5. CLEAN PER 11550-750.

~~APPROVED/CONTROLLED~~

0H17875.2



NOTES:

1. PART MUST BE OIL, SCALE AND BURR FREE.
2. FULL CLEAN-UP REQUIRED, MUST FIT IN Ø.380-.379 BORE X .360 DEEP.
3. VENDOR TO SUPPLY CERTIFICATION OF CONFORMANCE TO ASME SA-249 TYPE TP304L SHALL BE FURNISHED WITH EACH LOT OF MATERIAL. ANY MATERIAL NOT CONFORMING SHALL BE CAUSE FOR REJECTION OF THE ENTIRE LOT.

MATERIAL: .375 OD X .035 WALL (UNS S30403) TP304L STAINLESS STEEL TUBING PER ASME SA-249 GRADE TP304L MATERIAL SPEC: 11550-304LB	
DRAWN A. WYATT	ISSUED DATE 1/27/2009
CHECKED N. LEE	CHECKED DATE 8/13/2013
INSPECTED J. HOWARD	INSPECTED DATE 10/16/2013
APPROVED D. GENTILE	APPROVED DATE 10/17/2013
REFERENCE NUMBER	10017179ER
PROJECT NUM CF793	VARIANT DIM
SCALE 1:1	REV LEVEL A
UNLESS OTHERWISE SPECIFIED: 1 PL DEC ±.015 2 PL DEC ±.005 3 PL DEC ±.005 4 PL DEC ±.0005 ANGLES ± 1° CONCENTRICITY .010 DIA FINISH 125 MAX REMOVE BURRS, BREAK SHARP EDGES R.015 MAX INTERPRET DIMENSIONS IN INCHES PER ASME Y14.5-1994	
ENGINEERED CONTROLS INTERNATIONAL, LLC. REGO ELON, N.C. 27244 BURLINGTON, N.C. 27215 THIS DRAWING IS ECI PROPRIETARY INFORMATION. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
TITLE TUBE, BENT	
DRAWING NUMBER 1337-50A	DWG SIZE B

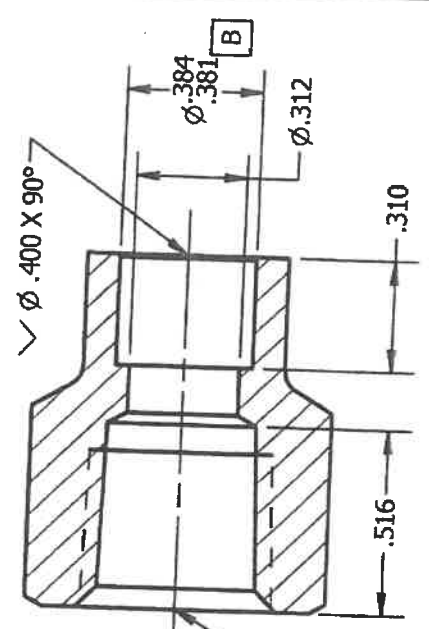
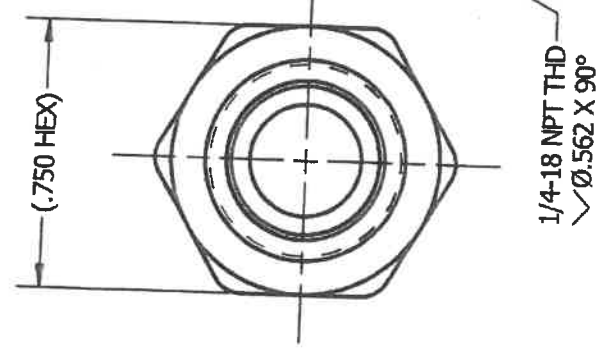
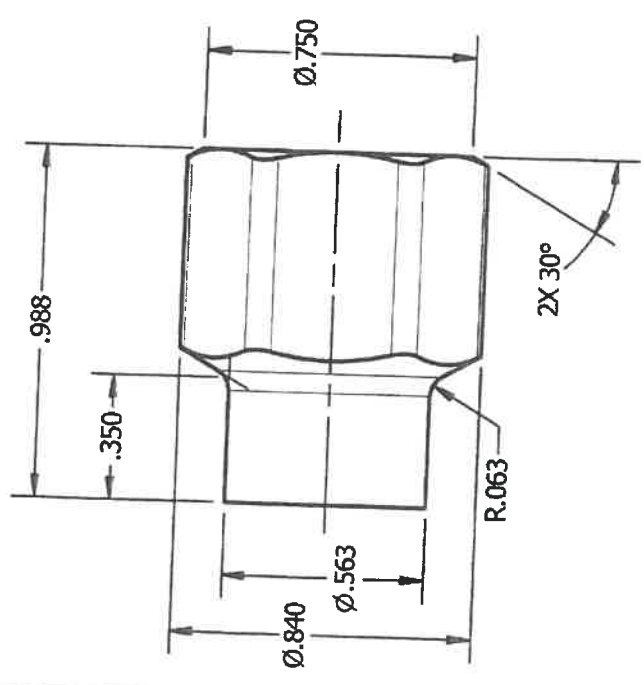
0H17875.2

2



1

REVISION HISTORY		
REV	DATE	DESCRIPTION
A	A481, 12-15-00	ISSUED
B	A829, 12-10-02	REV



APPROVED/CONTROLLED

NOTE:

1. CLEAN PER 11550-118 TO REMOVE CUTTING FLUID, CHIPS & DEBRIS.

MATERIAL: 3/4 RC HEX (UNS C36000) 360 FC BRASS ROD
COLOR CODE: RED
MATERIAL SPEC: 11550-417

701278

DRAWN		ISSUED DATE		MATERIAL		PART NUMBER			
L. MARSHALL		12/15/2000							
CHECKED		N. ROSS		2/11/2008					
INSPECTED		D. McDONALD		2/12/2008					
APPROVED		D. GENTILE		2/14/2008					
REFERENCE NUMBER		IDENTIFIER							
PROJECT NUM	VARIANT DIM	SCALE	REV LEVEL						
		1:1	B						
				UNLESS OTHERWISE SPECIFIED: 2 PL DEC ± .015 3 PL DEC ± .02 4 PL DEC ± .005 ANGLES ± 1° CONCENTRICITY .010 FIM FINISH 125 MAX, REMOVE BURRS, BREAK SHARP EDGES R.015 MAX INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5M-1994		REGO CRYO-FLOW PRODUCTS BURLINGTON, NC 27215			
				TITLE		THIS DRAWING IS ECIT PROPRIETARY INFORMATION. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.			
				DRAWING NUMBER		2227-21			
				DWG SIZE		A			

FITTING
1/4" FEMALE NPT

REVISION HISTORY

REV	DATE	DESCRIPTION
A	1/4/86	2-3-01 ISSUED
B	2013-27, 6-25-13	REV & REDRAWN

MATERIAL

DRAWN	ISSUED DATE	PART NUMBER
M. MCVEY	2/5/2001	701230
CHECKED	CHECKED DATE	
N. LEE	7/30/2013	
INSPECTED	INSPECTED DATE	
C. RICHARDSON	8/2/2013	
APPROVED	APPROVED DATE	
D. GENTILE	8/5/2013	
REFERENCE NUMBER	IDENTIFIER	
PROJECT NAME	VARIANT DYN	
SCALE	2:1	
REV LEVEL	B	

NOTES:

- CLEAN PER 11550-118 TO REMOVE CUTTING FLUID, CHIPS & DEBRIS.
- IMPORTANT SEALING SURFACE, DO NOT DAMAGE.

DETAIL A
SCALE 10 : 1

ENGINEERED CONTROLS INTERNATIONAL, LLC.
REGO
ELON, N.C. 27244
BURLINGTON, N.C. 27215
THIS DRAWING IS NOT PROPRIETARY INFORMATION.
ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.

BONNET
FOR GLOBE VALVES

BK9450-5



To:	TSSA	From:	Janet Townsend
Company:	Engineered Controls International, LLC	Phone:	416-747-4291
Pages:	8	Location:	Toronto
Our File:	ANR-4427	Date:	April 20, 2017

Your File: 2017734

Subject: Request for Design Registration

Dear Ms. Francis,

CSA has reviewed the documentation submitted by TSSA on behalf of Engineered Controls International, LLC.

These fittings have been registered by CSA for the Province of Québec. In accordance with an agreement between CSA, the Provinces of Québec and Saskatchewan; this registration is recognized by Quebec and Saskatchewan. These fittings are acceptable for use in these Provinces.

The letters CSA will be applied as a prefix to the CRN indicate which fittings have been registered in this manner. A copy of the stamped Statutory Declaration is attached.

The CRN is CSA-0H19073.56.

A copy of the Statutory Declaration with an original stamp affixed will be forwarded to you along with our invoice by regular mail.

Yours truly

A handwritten signature in cursive script that reads 'Janet Townsend'.

Janet Townsend
Program Manager
CSA Group



Technical Standards and Safety Authority
345 Catlingview Drive
Toronto, Ontario M9W 6N9
www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

REGO®

STATUTORY DECLARATION Registration of Fittings

I, **CHAD THOMAS, VP GLOBAL ENGINEERING**

(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of **ENGINEERED CONTROLS INTERNATIONAL LLC**

(Name of Manufacturer)

Located at **100 REGO DRIVE, ELON, NC - 27244**

(Plant Address)

338-448-7707

(Telephone No.)

(Fax No.)

☒ do solemnly declare that the fittings listed hereunder, which are subject to the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, comply with all of the requirements of **ASME B31.1**

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

☐ or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of **ISO90001**

which has been verified by the following authority, **UNDERWRITERS LABORATORY INC**

The items covered by this declaration, for which I seek registration, are category **"H"** type fittings. In support of this application, the following information and/or test data are attached as follows:

SEE ATTACHED LIST

(Drawings, calculations, test reports, etc.)

Declared before me at **Engineered Controls, Inc.** in the **County** of **Alamance** the **10th** day of **December** AD 20 **14**

Commissioner for Oaths:

MARISA E. ELLIOTT

(Printed name)

Marisa E. Elliott

(Signature)

Chad M. Thomas

(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category **H**

CRN:

CSA-0H19073.56

Registered by:

A. BANWATT

Dated:

APRIL 12 2017

NOTE: This registration expires on:

JAN 11 2026

PV 0553 (04/16)

MARISA E. ELLIOTT
NOTARY PUBLIC
ALAMANCE COUNTY
NORTH CAROLINA

MY COMMISSION EXPIRES

8/31/2021



REGISTERED

CRN: **CSA-0H19073.56**

Registration Process administered by
CSA Group per CSA B51



Note: See attachment as the scope of registration.

Date: **Jan 10/17**
Signature: **[Signature]**

Colleen Anne Ratchin,
a Commissioner, etc. City of Toronto for the
Technical Standards & Safety Authority
Expires July 24, 2019

REGISTERED



CRN CSA-0419073.56

Registration Process administered by
CSA Group per CSA B51

Technical Review performed per CSA B51
Performed by: ANRIC Enterprises Inc.

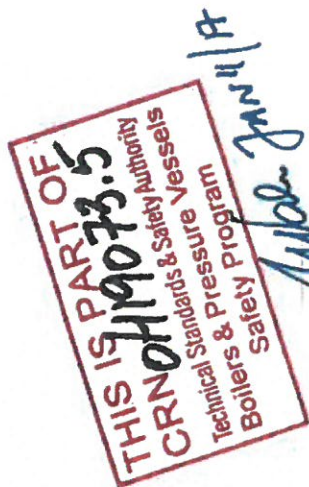
Signed:

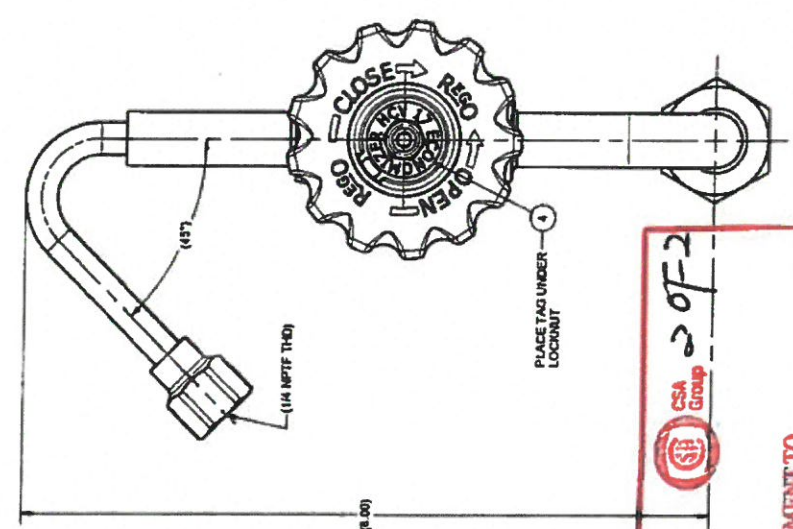
ABW

Date:

12 April, 2017

Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	MVE7C	Economizer Circuit Assembly	9475ES-1A	9475ES-1A	Forging Brass, UNS C37700, ASTM B283	600
			1337-58S	1337-58S	Stainless Steel Pipe, ASTM A249, TP304L	600
			1337CS-22 SER	1337CS-22A	Stainless Steel Pipe, ASTM A249, TP304L	600
			1337-50AS	1337-50AS	Stainless Steel Pipe, ASTM A249, TP304L	600
			BK9450-5	BK9450-5	FC Brass Rod, UNS C36000, ASTM B16	600





THIS IS PART OF
CRN 049073.5
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

[illegible][illegible]

NOTES:

1. CLEAN & PACKAGE PER B-1155-400 OXYGEN SERVICE. STORE CLEAN AND ASSEMBLE IN CLEAN AREA.
2. TEST PER 6400-100.
3. ATTACH TAG TO HANDWHEEL/STEM.
4. ATTACH CLOSURES TO ALL END CONNECTIONS TO PROTECT FROM DAMAGE.

CSA Group
20F-2

ATTACHMENT TO

C.R.N. CSA-OH19073.116

Signed: *AB Snider*

170 Rexdale Boulevard, Toronto, ON Canada M9W 1R3



Annex to Certificate
Registration No. 10001523 QM08

Engineered Controls International, LLC

100 Rego Drive
Elon, NC 27244
United States of America

Location

10003889
Engineered Controls International, LLC
3181 Lear Drive
Burlington, NC 27215
United States of America

10003890
Engineered Controls International, LLC
911 Industrial Drive S.W.
Conover, NC 28613
United States of America

178 Rexdale Blvd.
Toronto, Ontario
Canada M9W 1R3
Tel: (416) 747-4000
www.csagroup.org



March 2017

CRN – Canadian Registration Numbers - Saskatchewan

The Province of Saskatchewan participates with Quebec and the Canadian Standards Association (CSA Group) for the registrations of “Fittings”.

Per an agreement with CSA Group in April 1998, Saskatchewan recognizes registrations done by CSA Group and accepts such fittings for use in Saskatchewan.

The letters “CSA” are applied as a prefix to the CRN to indicate which “Fittings” have been registered in this manner. You should inform your clients of this additional marking requirement and that “Fittings” registered by CSA Group are accepted for use in Saskatchewan Canada.



345 Carlingview Drive
Toronto, Ontario
CANADA M9W 6N9
Tel.: 416.734.3300
Fax.: 416.231.1626
Toll Free: 1.877.682.8772
www.tssa.org

May 04, 2017

CHAD THOMAS
ENGINEERED CONTROLS INTERNATIONAL LLC
100 REGO DR
ELON NC 27244
US

Service Request Type.: BPV-National MB
Service Request No.: 2017736
Your Reference No.:
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD THOMAS,

Please find enclosed the original response from MB, registered under the CRN No.: 0H19073.54.

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

Should you have any questions or require further assistance, I will be happy to assist you.
For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Joanna Karpinski

Tel: 416-734-3377
Fax: 416-231-6183
Email: jkarpinski@tssa.org



Inspection and Technical Services Manitoba

508 - 401 York Avenue

Winnipeg Manitoba R3C 0P8

T (204) 945-3373

F (204) 948-2309

www.firecomm.gov.mb.ca/codes_steam_pressure.html

April 10, 2017

TSSA

345 Carlingview Drive

Toronto, ON

M9W 6N9

Attn: Tanya Francis

REGISTRATION OF VALVES AND FITTINGS

Manufacturer: ENGINEERED CONTROLS INTERNATIONAL LLC

The design(s) for the following Valves/Fittings has been received by us and has been examined and accepted for registration in the Province of Manitoba as follows.

DRAWING / CATALOGUE	CRN	FILE
MVE7C SER REV.A ECONOMIZER CIRCUIT ASSEMBLY W/O CHECK VALVE	0H19073.54	37520

An invoice covering survey and registration fees is enclosed.

NOTE: CRN registered under reciprocal agreement & is conditional based on compliance with the notes set by the original issuing Jurisdiction: **TSSA**. This registration expires **January 11, 2027**.

This registration is valid until the indicated expiry date only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

The registration of this design does not relieve the manufacturer, the owner or his agent of the responsibility for the design or construction of a fitting in accordance with the applicable Acts, Codes and Standards. Inspection and Technical Services assumes no responsibility by registering designs, examining plans and/or inspecting equipment or facility.

Regards,

Ryan Orlesky, C.E.T.

Design Surveyor

Office of the Fire Commissioner

Inspection and Technical Services Manitoba

508 - 401 York Avenue

Winnipeg, Manitoba, R3C 0P8

Phone: 204-945-3373

Email: ryan.orlesky@gov.mb.ca



Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

REGO®

STATUTORY DECLARATION Registration of Fittings

I, **CHAD THOMAS, VP GLOBAL ENGINEERING**

(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of **ENGINEERED CONTROLS INTERNATIONAL, LLC**

(Name of Manufacturer)

Located at **100 REGO DRIVE, ELON, NC - 27244**

(Plant Address)

336-449-7707

(Telephone No.)

(Fax No.)



do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of **ASME B31.1**

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;



or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of **ISO 90001**

which has been verified by the following authority, **UNDERWRITERS LABORATORY INC** type fittings. In support of this application, the following information and/or test data are attached as follows:

SEE ATTACHED LIST

(drawings, calculations, test reports, etc.)

Declared before me at **Engineered Controls, Inc.** in the **County** of **Alamance**

the **10th** day of **December** **AD 20 16**

Commissioner for Oaths:

Marisa E. Elliott

(Printed name)

Marisa E. Elliott

(Signature)

Chad M. Thomas

(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category **#**

CRN:

0419073.54

Registered by:

RYAN ORLESKY

Dated:

April 10, 2017

NOTE: This registration expires on:

JAN 11, 2027

PV 09553 (06/16)

MARISA E. ELLIOTT
NOTARY PUBLIC
ALAMANCE COUNTY
NORTH CAROLINA

my commission expires
8/31/2021



Colleen Anne Ratcliff,
a Commissioner, etc., City of Toronto, for the
Technical Standards & Safety Authority
Expires July 24, 2019



345 Carlingview Drive
Toronto, Ontario
CANADA M9W 6N9
Tel.: 416.734.3300
Fax.: 416.231.1626
Toll Free: 1.877.682.8772
www.tssa.org

March 31, 2017

CHAD THOMAS
ENGINEERED CONTROLS INTERNATIONAL LLC
100 REGO DR
ELON NC 27244
US

Service Request Type.: BPV-National ACI Central
Service Request No.: 2017722
Your Reference No.:
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD THOMAS,

Please find enclosed the original response from PEI, NS, NB, NFLD, YK, NWT, NU registered under the CRN No.: 0H19073.59870YTN.

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

Should you have any questions or require further assistance, I will be happy to assist you. For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Joanna Karpinski

Tel: 416-734-3377
Fax: 416-231-6183
Email: jkarpinski@tssa.org

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUTNOVA SCOTIA
YUKONPRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: <u>Engineered Controls International, LLC</u>	
MANUFACTURERS ADDRESS: <u>100 Rego Drive Elon, NC-27244</u>	
PLANT LOCATIONS: <u>Same as above</u>	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY	
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting AECB or ASME requirements)	TITLE OF THE STANDARD OF CONSTRUCTION <u>ASME B31.1</u>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
	
TYPE OF CONSTRUCTION FORGED ☐ WELDED ☐ WROUGHT ☐ CAST ☐ OTHER ☐ DESCRIBE OTHER:	
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:	
<u>See attached list</u>	

DECLARATION:

I, Chad Thomas (see note 3) employed by ECI-LLC and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001 / UL-TWC as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: Chad Thomas
 Declared before me at Engineered Controls Intl / Elon
 This 16th day of December AD 2016
 Commissioner of Oaths
 or Notary Public: (sign) Marisa E. Elliott
 (Affix Official seal to the right)

MARISA E. ELLIOTT
 U.S. NOTARY PUBLIC FOR THE
 ADAMANCE COUNTY
 NORTH CAROLINA

my commission expires 8/31/2021

This space for Regulatory Authority use	
This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>OH19073.5</u>	ACCEPTED
FID#: <u>1704</u>	PROVINCE OF PRINCE EDWARD ISLAND COMMUNITIES, LAND & ENVIRONMENT
Notes:	CRN. <u>0419073.59</u>
1. All fittings shall be registered in the name of the Manufacturer.	DATE: <u>Dec-9-2017</u>
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.	<u>Marisa E. Elliott</u>
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.	INSPECTION SERVICES SECTION
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.	BOILER/PRESSURE VESSEL BRANCH

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUTNOVA SCOTIA
YUKONPRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: <u>Engineered Controls International - LLC</u>	
MANUFACTURERS ADDRESS: <u>100 Rego Drive Elan, NC-27244</u>	
PLANT LOCATIONS: <u>Same as above</u>	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY	
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting AECB or ASME requirements)	TITLE OF THE STANDARD OF CONSTRUCTION <u>ASME B31.1</u>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
	
TYPE OF CONSTRUCTION FORGED ☐ WELDED ☐ WROUGHT ☐ CAST ☐ OTHER ☐ DESCRIBE OTHER:	
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:	
<u>See attached list</u>	

DECLARATION:

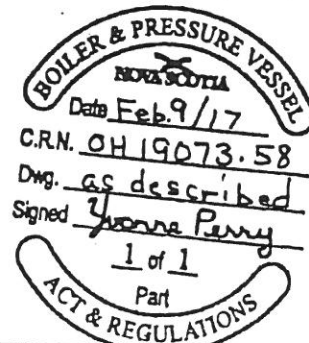
I, Chad Thomas (see note 3) employed by ECI-LLC and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001 / UL-PWC as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: Chad Thomas
 Declared before me at Engineered Controls Intl / Elan
 This 16th day of December AD 2016
 Commissioner of Oaths or Notary Public: (sign) Marisa E. Elliott
 (Affix Official seal to the right)

MARISA E. ELLIOTT
 USE NOTARY PUBLIC FOR THE
 ADAMANCE COUNTY
 NORTH CAROLINA

my commission expires 8/31/2021

This space for Regulatory Authority use	
This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>OH19073.5</u>	
FID#: <u>1704</u>	
Notes: 1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.	



UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: <u>Engineered Controls International - LLC</u>	
MANUFACTURERS ADDRESS: <u>100 Rego Drive Elan, NC-27244</u>	
PLANT LOCATIONS: <u>Same as above</u>	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting AECB or ASME requirements)	
TITLE OF THE STANDARD OF CONSTRUCTION <u>ASME B31.1</u>	
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT 	
TYPE OF CONSTRUCTION FORGED ☒ WELDED ☐ WROUGHT ☐ CAST ☒ OTHER ☐ DESCRIBE OTHER:	
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: <u>See attached list</u>	

DECLARATION:

I Chad Thomas (see note 3) employed by ECI-LLC and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001 / UL-TWC as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: Chad Thomas
 Declared before me at Engineered Controls Int'l / Elan
 This 16th day of December AD 2016

Commissioner of Oaths
 or Notary Public: (sign) Marisa E. Elliott

(Affix Official seal to the right)

MARISA E. ELLIOTT
 U S E T NOTARY PUBLIC O R T H E
ALAMANCE COUNTY
NORTH CAROLINA

MY COMMISSION EXPIRES 8/31/2021

CRN: <u>OH19073.5</u> FID#: <u>1704</u> Notes: 1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.	This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance. DEPT OF PUBLIC SAFETY BOILER & PRESSURE VESSEL ACT REGISTRATION ONLY CRN <u>OH19073.57</u> EXAMINER: <u>[Signature]</u> for CHIEF BOILER INSPECTOR DATE: <u>Feb. 10, 2017</u>
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☐ BLRs ☐ PVs
☒ FITTINGS ☐ COMPONENTS

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: <u>Engineered Controls International - LLC</u>	
MANUFACTURERS ADDRESS: <u>100 Rego Drive Elon, NC-27244</u>	
PLANT LOCATIONS: <u>Same as above</u>	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting AECB or ASME requirements)	TITLE OF THE STANDARD OF CONSTRUCTION <u>ASME B31.1</u>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT 	
TYPE OF CONSTRUCTION FORGED ☒ WELDED ☐ WROUGHT ☐ CAST ☐ OTHER ☐ DESCRIBE OTHER:	
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: <u>See attached list</u>	

DECLARATION:
I, Chad Thomas (see note 3) employed by ECI-LLC and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001 / UL-DWC as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: Chad Thomas
 Declared before me at Engineered Controls Intl / Elon
 This 16th day of December AD 2016
 Commissioner of Oaths or Notary Public: (sign) Marisa E. Elliott

(Affix Official seal to the right)

MARISA E. ELLIOTT
 SE NOTARY PUBLIC FOR THE
 ADAMANCE COUNTY
 NORTH CAROLINA
 my commission expires 8/31/2021

This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>OH19073.5</u>	Newfoundland Labrador Service NL Registered <u>OH19073.50</u> Date <u>12/02/10</u> Engineering and Inspection Services Registered by <u>[Signature]</u> UNDER THE AUTHORITY OF THE PUBLIC SAFETY ACT AND THE BOILER, PRESSURE VESSEL AND COMPRESSED GAS REGULATIONS
FID#: <u>1704</u>	
Notes: 1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.	

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: <u>Engineered Controls International - LLC</u>	
MANUFACTURERS ADDRESS: <u>100 Rego Drive Elm, NC-27244</u>	
PLANT LOCATIONS: <u>Same as above</u>	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting AECB or ASME requirements)	
TITLE OF THE STANDARD OF CONSTRUCTION <u>ASME B31.1</u>	
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT 	
TYPE OF CONSTRUCTION FORGED ☒ WELDED ☐ WROUGHT ☐ CAST ☒ OTHER ☐ DESCRIBE OTHER:	
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: <u>See attached list</u>	

DECLARATION:
 I Chad Thomas (see note 3) employed by ECI-LLC and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001 / UL-TNC as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: Chad Thomas

Declared before me at Engineered Controls Int'l / Elm

This 16th day of December AD 2016

Commissioner of Oaths or Notary Public: (sign) Marisa E. Elliott

(Affix Official seal to the right)

MARISA E. ELLIOTT
 NOTARY PUBLIC FOR THE
 ADAMANCE COUNTY
 NORTH CAROLINA

my commission expires 8/31/2021

This space for Regulatory Authority use

This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: OH19073.5

FID#: 1704

Notes:
 1. All fittings shall be registered in the name of the Manufacturer.
 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.
 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.
 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.

GOVERNMENT OF YUKON
 BY [Signature]
 CRN: OH19073.5
 DATE: 2/14/2017
 BOILERS BRANCH

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURER'S NAME: <u>Engineered Controls International - LLC</u>	
MANUFACTURER'S ADDRESS: <u>100 Rego Drive Elan, NC-27244</u>	
PLANT LOCATIONS: <u>Same as above</u>	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY	
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting AECB or ASME requirements)	TYPE OF THE STANDARD OF CONSTRUCTION ASME B31.1
SHOW MANUFACTURER'S NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
	
TYPE OF CONSTRUCTION FORGED ☐ WELDED ☐ WROUGHT ☐ CAST ☐ OTHER ☐ DESCRIBE OTHER:	
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:	
See attached list	

DECLARATION:

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Signature of Declarer: Chad Thomas
 Declared before me at Engineered Controls Intl / Elan
 This 16th day of December AD 2016
 Commissioner of Oaths or Notary Public: (sign) Marisa E. Elliott
 (Affix Official seal to the right)

MARISA E. ELLIOTT
 NOTARY PUBLIC FOR THE
 ADAMANCE COUNTY
 NORTH CAROLINA
 my commission expires 8/31/2021

This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>0H19073.5</u>	Notes: 1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.
FID#: <u>1704</u>	
Northwest Territories REGISTERED UNDER THE AUTHORITY OF THE BOILER AND PRESSURE VESSEL ACT. C.R.N. <u>0H19073.5T</u> SIGNED <u>[Signature]</u> DATE <u>Feb 10 2017</u>	

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: <u>Engineered Controls International - LLC</u>	
MANUFACTURERS ADDRESS: <u>100 Rego Drive Elan, NC-27244</u>	
PLANT LOCATIONS: <u>Same as above</u>	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY	
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 ☐ Class 2 ☐ Class 3 ☐ (Meeting AECB or ASME requirements)	TITLE OF THE STANDARD OF CONSTRUCTION <u>ASME B31.1</u>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
	
TYPE OF CONSTRUCTION	
FORGED ☒ WELDED ☐ WROUGHT ☐ CAST ☐ OTHER ☐ DESCRIBE OTHER:	
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:	
<u>See attached list</u>	

DECLARATION: I, Chad Thomas (see note 3) employed by ECI-LLC and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001 / UL-PWC as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: Chad M. Thomas

Declared before me at Engineered Controls Intl / Elan

This 16th day of December AD 2016

Commissioner of Oaths or Notary Public: (sign) Marisa E. Elliott

(Affix Official seal to the right)

MARISA E. ELLIOTT
USE NOTARY PUBLIC FOR THE
ADAMANCE COUNTY
NORTH CAROLINA

MY COMMISSION EXPIRES 8/31/2021
NUNAVUT

This space for Regulatory Authority Use	
This registration must be revalidated after ten (10) years from the date of acceptance. Boilers and Pressure Vessels Act	
CRN: <u>OH19073.5</u>	
FID#: <u>1704</u>	
Notes:	
1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.	
REGISTERED CRN <u>OH19073.5N</u> Date <u>Feb 10, 2017</u> Signed <u>[Signature]</u> Chief Inspector Territorial Registration Fee	