



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

[www.tssa.org](http://www.tssa.org)

May 16, 2018

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

**Service Request Type:** BPV-Fitting Registration  
**Service Request No.:** 2044382  
**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.:** 0H20351.5  
**Main Design No.:** Dwg. No. MVE13C Rev. E, Manifold Vent Circuit, HL  
**Expiry Date:** 16-May-2028

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](mailto: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 Specialist BPV  
Tel.: 416-734-3494  
Fax: 416-231-1626  
Email: [mvalcic@tssa.org](mailto:mvalcic@tssa.org)



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



REASSIGNED  
 TO MARK  
 MAY 3/18

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

Date of Application (mm/dd/yyyy): <b>3/30/2018</b>	Expedited Service (Ontario Only) <input type="checkbox"/> Yes (form attached) <input checked="" type="checkbox"/> No	Service Request Number: (For office use only) <b>2044382</b> <b>NAT 2044390</b>
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Please indicate the type of design for National Service:

Pressure Vessel  Boiler  Fitting

Existing CRN:  
(if applicable)

<b>Section A: Submitter (Legal Company Name)</b>	<b>Section B: Invoicee</b> Same as: <input checked="" type="checkbox"/> A <input type="checkbox"/> C <input type="checkbox"/> D
Company Name: ENGINEERED CONTROLS INTERNATIONAL, LLC.	Company Name:
Address: 100 REGO DRIVE	Address:
City/Town: ELON Province/State: NC	City/Town: Province/State:
Postal/Zip Code: 27244 Country: USA	Postal/Zip Code: Country:
Telephone: 336-446-7707	Telephone:
Contact Name: CHAD THOMAS <b>Ms. VANI PERI</b>	Contact Name:
E-mail: cthomas@regoproducts.com <b>vperi@</b>	E-mail:
Job No./Reference: <b>MVE13C Rev. E</b>	Purchase Order No.:
Drawing/Catalog No.:	
Account/Customer Number:	Account/Customer Number
<b>Section C: Owner of Design/ CRN</b> Same as: <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> D	<b>Section D: Manufacturer</b> Same as: <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C
Company Name:	Company Name:
Address:	Address:
City/Town: Province/State:	City/Town: Province/State:
Postal/Zip Code: Country:	Postal/Zip Code: Country:
Telephone:	Telephone:
Contact Name:	Contact Name:
E-mail:	E-mail:
Acct/Cust No.:	Acct/Cust No.:

Kindly select the province registration is required:

For renewals or additions to registrations where registration was obtained outside of Ontario first, in order to keep that registration number, please apply to the original registering province first, then proceed to apply with national registration with TSSA. If you proceed with national registration at TSSA first, we will need to issue a new registration number.

- |  |  |  |   |
|--|--|--|---|
| <input checked="" type="checkbox"/> Ontario          | <input checked="" type="checkbox"/> Saskatchewan | <input checked="" type="checkbox"/> New Brunswick        | <input checked="" type="checkbox"/> Newfoundland and Labrador |
| <input checked="" type="checkbox"/> British Columbia | <input checked="" type="checkbox"/> Manitoba     | <input checked="" type="checkbox"/> Nova Scotia          | <input checked="" type="checkbox"/> Yukon                     |
| <input checked="" type="checkbox"/> Alberta          | <input checked="" type="checkbox"/> Quebec       | <input checked="" type="checkbox"/> Prince Edward Island | <input checked="" type="checkbox"/> Northwest Territories     |
|  |  |  | <input checked="" type="checkbox"/> Nunavat                   |

Return Mail to:  A  B  C  D  Call for Pick up at Head Office

Optional Courier Collect:

(Completed ON Reg. Only)

DHL  FEDEX  PUROLATOR  UPS

Acct No.: \_\_\_\_\_

REGISTRATION NUMBER: (For Office Use Only)

**OH 20351.5**

REASSIGNED TO MARK  
MARCH 18/18

23

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



National Design Registration  
Application for a CRN  
Boilers and Pressure Vessels Regulation



INTAKE GROUP  
Date: 2014382 (ANT)  
SR #: 244330 (NAT)  
Agent:

Date of Application (mm/dd/yyyy): 12/16/2016  
 Expedited Service (please attach Request for Expedited Service)  
Please indicate the type of design:  Boiler  Pressure Vessel  Fitting  
Existing CRN: \_\_\_\_\_ (if applicable)

**Section A: Submitter**  
Company Name: ENGINEERED CONTROLS INTERNATIONAL, LLC.  
Address: 100 REGO DRIVE  
City/Town: ELON Province/State: NC  
Postal/Zip Code: 27244 Country: USA  
Telephone: 336-449-7707 Fax:  
Contact Name: CHAD THOMAS  
E-mail: cthomas@regoproducts.com  
Job No./Reference:  
Drawing/Catalog No.:

Acct/Cust No.: A40283 C91315  
**Section C: Owner of Design/CRN** Same as:  A  B  D  
Company Name:  
Address:  
City/Town: Province/State:  
Postal/Zip Code: Country:  
Telephone: Fax:  
Contact Name:  
E-mail:

Acct/Cust No.:  
**Section B: Invoicee**  
Company Name:  
Address:  
City/Town: Province/State:  
Postal/Zip Code: Country:  
Telephone: Fax:  
Contact Name:  
E-mail:  
Purchase Order No.:

Acct/Cust No.:  
**Section D: Manufacturer** (if more than one please attach list)  
Company Name:  
Address:  
City/Town: Province/State:  
Postal/Zip Code: Country:  
Telephone: Fax:  
Contact Name:  
E-mail:  
Acct/Cust No.:

CHRIS HERMAN  
cherman@regoproducts.com

TOM HEGHAN  
↓  
1-336-449-7272

Registration required in the following jurisdictions:

- Ontario
- Saskatchewan
- British Columbia
- Manitoba
- Alberta
- Quebec
- New Brunswick
- Nova Scotia
- Prince Edward Island
- Newfoundland and Labrador
- Yukon
- 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: \_\_\_\_\_ (mm/dd/yyyy) Reviewing Engineer: \_\_\_\_\_  
CRN Issued: \_\_\_\_\_

Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	MVE13C	Manifold	9464-1	9464-1	Brass Forging, UNS C37700, ASTM B283	600
			9464-7	9464-7	Stainless Steel Pipe, ASTM A249, TP304L	600
			MVE13C-3	MVE13C-3	FC Brass, UNS C36000, ASTM B16	600
			MVE13C-5	MVE13C-5	FC Brass, UNS C36000, ASTM B16	600
			MVE13C-6	MVE13C-6	Stainless Steel Pipe, ASTM A249, TP304L	600
			MVE13C-4	MVE13C-4	FC Brass, UNS C36000, ASTM B16	600
			MVE13C-7	MVE13C-7	Stainless Steel Pipe, ASTM A312, TP304L	600





# 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





**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.



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](http://www.tssa.org)

August 16, 2018

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

Service Request Type.: BPV-National AB  
Service Request No.: 2316352  
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.: 0H20351.52.

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](mailto:customerservices@tssa.org). When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Tanya Francis  
Administrative Assistant\_ BPV Engineering  
Tel. : 416-734-3423  
Fax : 416-231-6183  
Email : [tfrancis@tssa.org](mailto:tfrancis@tssa.org)

August 06, 2018

**Attention:** Joanna Karpinski  
TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO, ON M9W 6N9

**Email:** JKarpinski@tssa.org

The design submission, tracking number 2018-03514, originally received on May 31, 2018 was surveyed and accepted for registration as follows:

**CRN :** 0H20351.52

**Accepted on:** August 06, 2018

**Reg Type:** NEW DESIGN

**Expiry Date:** May 16, 2028

**Drawing No. :** MVE13C Rev 15

**Fitting type:** ASSEMBLY

Design registered in the name of : ENGINEERED CONTROLS INTERNATIONAL LLC

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

*As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is ASME B31.3.*

- 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 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.*

*Brazing shall be in compliance with code of construction.*

*Material used shall be suitable for intended temperature.*

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

Enclosed are stamped prints for your reference.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 or fax (780) 437-7787 or e-mail liu@absa.ca.

Sincerely,



LIU, XING, P. Eng.  
DOP Cert. No. D00008861



STATUTORY DECLARATION Registration of Fittings

I, Chad Thomas, V.P of Engineering of Engineered Controls International, LLC located at 100 Rego Drive, Elon - 27244, NC, USA



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

- comply with the requirements of ASME B31.3 which specifies the dimensions, 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 as supported by the attached 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

In support of this application, the following information, calculations and/or test data are attached: See attached list - MVE13C

DECLARED before me at Elon in the State of North Carolina this 20th day of April, 2018. Jennifer Versage Watson (Notary Public) and Chad Thomas (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: OH20351.52 Date Registered: 2018-08-06 Expiry Date: 2028-05-16



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](http://www.tssa.org)

August 02, 2018

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

Service Request Type.: BPV-National ACI Central  
Service Request No.: 2316376  
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.: 0H20351.59870YTN.

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](mailto:customerservices@tssa.org). When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Tanya Francis  
Administrative Assistant\_ BPV Engineering  
Tel. : 416-734-3423  
Fax : 416-231-6183  
Email : [tfrancis@tssa.org](mailto:tfrancis@tssa.org)


**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>Elon</u>	
<b>CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</b> 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 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting AECB or ASME requirements)	<b>TITLE OF THE STANDARD OF CONSTRUCTION</b>  <p style="text-align: center;">ASME B31.3</p>
<b>SHOW MANUFACTURER'S NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</b>  	<b>TYPE OF CONSTRUCTION</b> FORGED: <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:
<b>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</b>  <p style="text-align: center;">MVE 13C</p>	

**DECLARATION:**

I, Chad Thomas (and note 3) employed by ECL 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 \_\_\_\_\_ 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 Alamance County, North Carolina U S E T

This 20th day of April AD 2018

Commissioner of Oaths or Notary Public: (sign) Jennifer Versage Watson

(Affix Official seal to the right)

Jennifer Versage Watson  
 Notary Public for the  
 OFFICE of Rockingham County  
 North Carolina  
 My Commission Expires 03/05/2023

This space for Regulatory Authority use

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

CRN: 0H20351.5

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.

ACCEPTED  
 PROVINCE OF PRINCE EDWARD ISLAND  
 COMMUNITIES, LAND & ENVIRONMENT  
 C.R.N. 0H20351.59  
 DATE: June 8 2018  
Jennifer McCabe  
 INSPECTION SERVICES SECTION  
 BOILER/PRESSURE VESSEL 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

MANUFACTURERS NAME: Engineered Controls International, LLC.

MANUFACTURERS ADDRESS: 100, Rego Drive, Elon, NC-27244

PLANT LOCATIONS: Elon.

CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
<p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers</p> <p>B Flanges: all flanges</p> <p>C Valves: all line valves</p> <p>D Expansion joints, flexible connections, and hose assemblies: all types</p> <p>E Strainers, filters, separators, and steam traps</p> <p>F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters</p> <p>G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs</p> <p><input checked="" type="checkbox"/> H Pressure retaining components that do not fall into one of the above categories</p> <p>N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting AECB or ASME requirements)</p>	ASME B31.3
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	TYPE OF CONSTRUCTION
	<p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/></p> <p>CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/></p> <p>DESCRIBE OTHER:</p>
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:	
MVE 13C	

DECLARATION:

I Chad Thomas (see note 2) employed by ECI 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 \_\_\_\_\_ 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 Alamance County, North Carolina

This 20th day of April AD 2018

Commissioner of Oaths or Notary Public: (sign) Jennifer Versage Watson

(Affix Official seal to the right)


Jennifer Versage Watson  
Notary Public for the  
OFFICE of Rockingham County  
North Carolina  
My Commission Expires 03/05/2023

This space for Regulatory Authority use  
This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: 0H20351.5

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.



Date June 8/18  
C.R.N. 0H20351.58  
Dwg. as described  
Signed Yvonne Perry  
1 of 1  
Part  
ACT & REGULATIONS


**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>Elon.</u>	
<p align="center"><b>CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</b></p> <p>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  <input checked="" type="checkbox"/> Pressure retaining components that do not fall into one of the above categories                  N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/>, (Meeting AECB or ASME requirements)</p>	<p align="center"><b>TITLE OF THE STANDARD OF CONSTRUCTION</b></p> <p align="center">ASME B31.3</p>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
	<p align="center"><b>TYPE OF CONSTRUCTION</b></p> <p>FORGED <input checked="" type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/>                  CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>                  DESCRIBE OTHER:</p>
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:	
MVE 13C	

**DECLARATION:**  
 I Chad Thomas (see note 3) employed by ect- 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 \_\_\_\_\_ 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 Alamance County, North Carolina U S E T  
 This 20th day of April AD 2018

Commissioner of Oaths or Notary Public: (sign) Jennifer Versage Watson  
 (Affix Official seal to the right)

Jennifer Versage Watson  
 Notary Public  
 OFFICE OF ROAKINGHAM COUNTY  
 North Carolina  
 My Commission Expires 03/05/2023

<p align="center">This space for Regulatory Authority use                  This registration must be revalidated after ten (10) years from the date of registration</p> <p>CRN: <u>0H20351.5</u>                  FID#: <u>1704</u></p> <p>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.</p>	<p><b>Brunswick</b>                  DEPT OF PUBLIC SAFETY                  BOILER &amp; PRESSURE VESSEL ACT</p> <p align="center">REGISTRATION ONLY</p> <p>CRN <u>0H20351.57</u></p> <p>EXAMINER <u>Jennifer Watson</u>                  or                  CHIEF INSPECTOR</p> <p>DATE <u>6/8/2018</u></p>
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BLRs  PVs  
 FITTINGS  COMPONENTS


**NEW BRUNSWICK 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, Elon, NC-27244</u>	
PLANT LOCATIONS: <u>Elon.</u>	
<p align="center"><b>CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</b></p> <p>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 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting AECB or ASME requirements)</p>	<p align="center"><b>TITLE OF THE STANDARD OF CONSTRUCTION</b></p> <p align="center"><u>ASME B31.3</u></p>
SHOW MANUFACTURER'S NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
	<p align="center"><b>TYPE OF CONSTRUCTION</b></p> FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:	
<p><u>MVE 13C</u></p>	

**DECLARATION:**  
 I Chad Thomas (see note 3) employed by ECI 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 \_\_\_\_\_ 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 Alamance County, North Carolina  
 This 20th day of April AD 2018  
 Commissioner of Oaths or Notary Public: (sign) Jennifer Versage Watson  
 (Affix Official seal to the right)

Jennifer Versage Watson  
 Notary Public  
 OFFICE OF THE  
 Clerk of Superior Court  
 North Carolina  
 My Commission Expires 03/05/2023

This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>0H20351.5</u> FID#: <u>1704</u>	 Registered <u>0H20351.50</u> Date <u>14 JUNE 2018</u> Engineering and Inspection Services Registered by <u>Stegan</u>
<p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>All fittings shall be registered in the name of the Manufacturer.</li> <li>Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.</li> <li>The declaration shall be made by the person having full authority and responsibility for the quality of the end product.</li> <li>Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.</li> </ol>	UNDER THE AUTHORITY OF THE PUBLIC SAFETY ACT AND THE BOILER, PRESSURE VESSEL AND COMPRESSED GAS REGULATIONS


**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>Elon.</u>	
<p align="center"><b>CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</b></p> <p>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  <input checked="" type="checkbox"/> Pressure retaining components that do not fall into one of the above categories                  N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/>. (Meeting AECB or ASME requirements)</p>	<p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p align="center" style="font-size: 1.2em;">ASME B31.3</p>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
	<p align="center">TYPE OF CONSTRUCTION</p> <p>FORGED <input checked="" type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/>                  CAST <input type="checkbox"/> OTHER <input type="checkbox"/>                  DESCRIBE OTHER:</p>
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:	
<p align="center" style="font-size: 1.2em;">MVE 13C</p>	

**DECLARATION:**

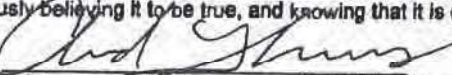
I Chad Thomas (see note 3) employed by ECI and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. 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 \_\_\_\_\_ 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: \_\_\_\_\_


Declared before me at \_\_\_\_\_

This 20th day of April AD 2018

Commissioner of Oaths or Notary Public: (sign) \_\_\_\_\_

  
 \_\_\_\_\_  
 (Affix Official seal to the right)

Jennifer Versage Watson Notary Public F F I C R O A K I N G S A B E County North Carolina My Commission Expires 03/05/2023
--

This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>0H20351.5</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>160, Rego Drive, Elon, NC-27244</u>	
PLANT LOCATIONS: <u>Elon</u>	
<b>CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</b>	
<p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers</p> <p>B Flanges: all flanges</p> <p>C Valves: all line valves</p> <p>D Expansion joints, flexible connections, and hose assemblies: all types</p> <p>E Strainers, filters, separators, and steam traps</p> <p>F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters</p> <p>G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs</p> <p>H Pressure retaining components that do not fall into one of the above categories</p> <p>N Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting AECB or ASME requirements)</p>	<p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p align="center"><u>ASME B31.3</u></p>
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	<p align="center">TYPE OF CONSTRUCTION</p> <p>FORGED <input checked="" type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/>          CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>          DESCRIBE OTHER:</p>
<b>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</b>	
<p><u>MVE 13C</u></p>	

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 I Chad Thomas (see note 3) employed by ECI- 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 \_\_\_\_\_ 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 Alamance County, North Carolina  
 This 20th day of April AD 2018  
 Commissioner of Oaths or Notary Public (sign): Jennifer Versage Watson  
 (Affix Official seal to the right)

Jennifer Versage Watson  
 Notary Public  
 OF F I C R O A K I N G S County  
 North Carolina  
 My Commission Expires 03/05/2023


This space for Regulatory Authority use

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

CRN: 0H20351.5

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.

  
 Northwest Territories  
**REGISTERED**  
 UNDER THE AUTHORITY OF  
 THE BOILER AND PRESSURE  
 VESSEL ACT.  
 C.R.N. 0H20351.5  
 SIGNED [Signature]  
 DATE June 14/2018

# 16300




**UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS**

NEW BRUNSWICK  
NUNAVUT

NOVA SCOTIA  
YUKON

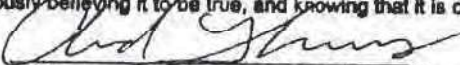
PRINCE EDWARD ISLAND  
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: <u>Engineered Controls International LLC.</u>	
MANUFACTURERS ADDRESS: <u>100, Rego Drive, Elon, NC-27244</u>	
PLANT LOCATIONS: <u>Elon.</u>	
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<p><b>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</b></p> <p align="center">MVE 13C</p>	

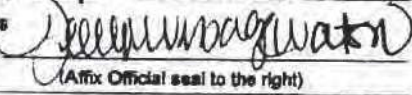
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Signature of Declarer: 

Declared before me at Alamance County, North Carolina U S E T

This 20th day of April AD 2018

Commissioner of Oaths or Notary Public: (sign)   
 (Affix Official seal to the right)

Jennifer Versage Watson  
 Notary Public  
 OFFICE OF ROEKLING COUNTY  
 North Carolina  
 My Commission Expires 03/05/2023

This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>OH20351.5</u> FID#: <u>1704</u>	 <b>NUNAVUT</b> Boilers and Pressure Vessels Act <b>REGISTERED</b>
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.	CRN <u>OH20351.5</u> Date <u>June 03, 2018</u> Signed  Chief Inspector
<b>Territorial Registration Fee</b>	



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](http://www.tssa.org)

June 26, 2018

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

Service Request Type.: BPV-National BC  
Service Request No.: 2316362  
Your Reference No.:  
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD THOMAS,

Please find enclosed the original response from BC, registered under the CRN No.: 0H20351.51.

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](mailto: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](mailto:jkarpinski@tssa.org)

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

**Date:** May 31, 2018  
**Account #:** 35231  
**Journal #:** 70888

**Attn:** TANYA FRANCIS

**Re:** Application for Design Registration

The design, as detailed in your, TSSA SR# 2316362, for a Fitting is accepted for registration as follows:

**Registered To:** ENGINEERED CONTROLS INTERNATIONAL LLC      **CRN:** 0H20351.51

**Drawing #:** MVE13C

**Drawing Revision:** D

**Conditions Of Registration:**

Registration of a Manifold Vent Circuit, HL as per attached scope of registration sheet.

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:**

As required by CSA B51 4.2.1, this registration expires on May 16, 2028. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control 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@technicalsaftybc.ca  
Design Administration

**cc:**





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](http://www.tssa.org)

September 13, 2018

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

Service Request Type.: BPV-National CSA  
Service Request No.: 2316384  
Your Reference No.:  
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD THOMAS,

Please find enclosed the original response from QC,SK, registered under the CRN No.:  
CSA-0H20351.56.

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](mailto:customerservices@tssa.org). When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Tanya Francis  
Administrative Assistant\_ BPV Engineering  
Tel. : 416-734-3423  
Fax : 416-231-6183  
Email : [tfrancis@tssa.org](mailto:tfrancis@tssa.org)

REGISTERED



CRN: CSA-0H20351.56

Statutory Declaration Registration of **Fittings**

Registration Process administered by  
 CSA Group per CSA B51

(a) Design Qualification

I, Chad Thomas, V.P of Engineering

(Position eg, president, plant manager, chief eng.)

Of Engineered Controls International, LLC

(name of company)

Located at 100 Rego Drive, Elon, NC -27244 USA

(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:

comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required:

Or

are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with \_\_\_\_\_ code and standard, and are designed to the best current engineering practice, as shown by the supporting test data.

(b) Quality control of Manufacture

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of ASME B31.3, and has been verified by the following authority or authorized agency UL 9001

The fittings<sup>2</sup> covered by this declaration, for which I seek registration, are Category H

In support of the application, the following information, calculations and/or test data are attached:

See attached list - MVE 13C

Declared before me at Alamance County

In the of State of North Carolina

The 20 Day of April AD 192018

Jennifer Versage Watson  
 Notary Public  
 Rockingham County  
 North Carolina  
 My Commission Expires 03/05/2023

Jennifer Versage Watson  
 A (commissioner for oaths)

Chad Thomas  
 Signature of Declarer<sup>3</sup>

For Official Use Only

The application is accepted for registration in Category H in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

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

MAY. 16. 2028

Registered Number CRN CSA-0H20351.56

For the Chief Inspector

Date



A. BANWATT

June. 13. 2018

- 1 Three completed copied of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.
- 2 All fittings are required to be registered in the name of the Manufacturer.
- 3 This form shall be completed and signed by the president of highest official in the manufacturing plan where the fitting is produced.



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

Signed: *[Signature]*

Date: 13 June 2018

REGISTERED



CRN: CSA-012034.16

Registration Process administered by  
CSA Group per CSA B51

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

\*Note: See the attachment for the scope of the registration.



Technical Safety Authority of Saskatchewan



Signed: \_\_\_\_\_ Date: \_\_\_\_\_

2202 2nd Ave. Regina, SK S4R 1K3  
PH: (306)798-7112 Toll Free: (866)530-8599  
FAX: (306)787-9273 Toll Free: (866)760-9255  
Email: boilerpermits@tsask.ca  
Website: www.tsask.ca

Statutory Declaration (Registration of Fittings)

TSK-1008

I. Declaration Information

I, Chad Thomas, V.P of Engineering

(company title, e.g. vice president, plant manager, chief engineer)  
(must be in a position of authority in the manufacturing plant where the fitting is produced)

of: Engineered Controls International, LLC  
(name of manufacturer)

located at: 100 Rego Drive Elon, NC 27244  
(Plant Address - Apt/Street) (City,Prov) (Postal Code)

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 hereinunder, which are subject to the Saskatchewan Boiler and Pressure Vessel Safety Act (check one)

- Comply with the requirements of ASME B31.1 which specifies the dimensions, 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 as supported by the attached 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 manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, UL 9001 as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category H

In support of this application, the following information, calculations and / or test data are attached: See attached list - MVE13 C

II. Declaration

DECLARED before me at Alamance County In the State of North Carolina this 20th day of April 2018. Jennifer Versage Watson Notary Public Rockingham County North Carolina My Commission Expires 05/05/2023

III. Office Use Only

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

CSA-0H20351.56 (Registration Number)

REGISTERED June 13 2018 (Date Registered - MM DD YYYY) (For the Administrator / Chief Inspector)

MAY 16 2028 (Expiry Date - MM DD YYYY) A. BANWATT

Registration Process administered by CSA Group per CSA B51



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

Signed: ASB Sweet

Date: 13 June 2018

REGISTERED



CRN: CSA-07120351.46

Registration Process administered by  
CSA Group per CSA B51



345 Carlingview Drive  
Toronto, Ontario M9W 6N9  
Tel: 416 734 3300  
Fax: 416 231 1626  
Toll Free 1 877 682 3772

[www.tssa.org](http://www.tssa.org)

May 16, 2018

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

**Service Request Type:** BPV-Fitting Registration  
**Service Request No.:** 2044382  
**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.:** 0H20351.5  
**Main Design No.:** Dwg. No. MVE13C Rev. E, Manifold Vent Circuit, HL  
**Expiry Date:** 16-May-2028

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](mailto: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

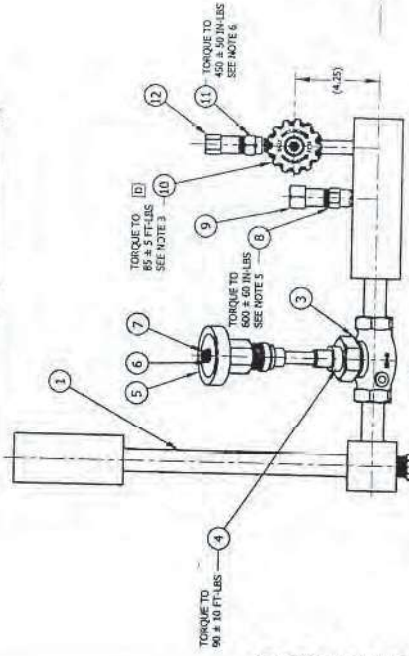
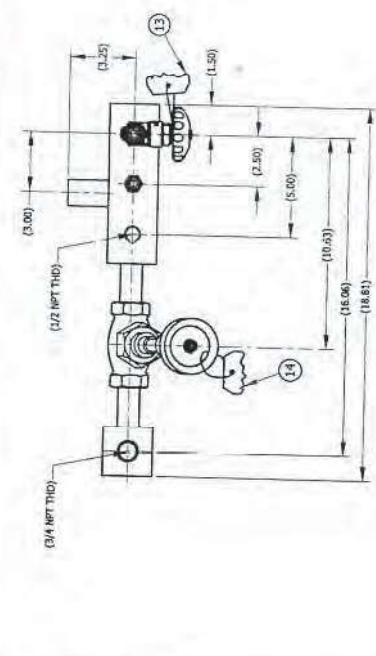
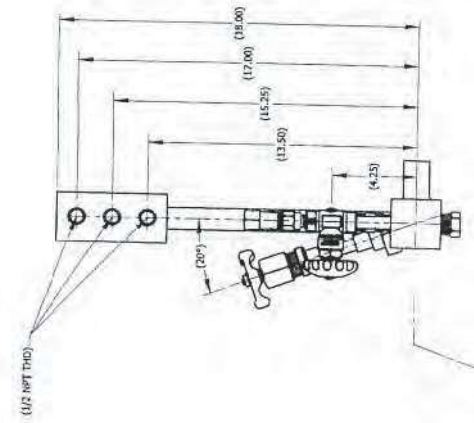
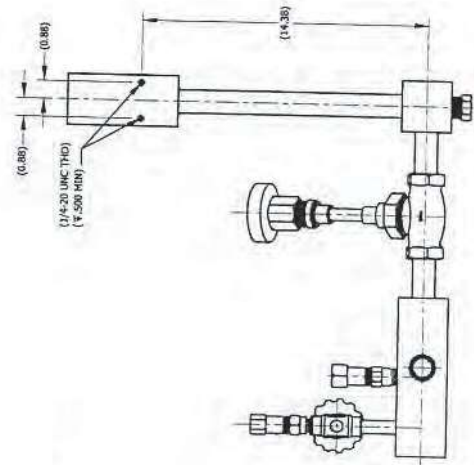
Yours truly,

  
Mark Valcic P. Eng.  
Engineer Specialist BPV  
Tel.: 416-734-3494  
Fax: 416-231-1626  
Email: [mvalcic@tssa.org](mailto:mvalcic@tssa.org)



REV	DATE	DESCRIPTION
A	07/21/11	ISSUED
B	08/21/11	REV
C	09/21/11	REV
D	10/21/11	REV
E	11/21/11	REV

THIS IS PART OF  
 CRN 07203515  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program  
 MGC MAY 16/18



ITEM	QTY	TITLE	UNIT NUMBER
15	1	SEAT DISC ASSY SEE NOTE 9	B-948-7
14	1	TAG TORQUE (1100)	B-948-8
13	1	TAG TORQUE (900-1100)	B-948-9
12	1	ADAPTER	B-948-10
11	1	WELD VALVE	FWP433-P02
10	1	RETINER KIT	1944-RC
9	1	ADAPTER	B-948-11
8	1	MELP VALVE	FWP433-P02
7	1	LOCKWASHER	7524-1185
6	1	WASHER	40028
5	1	WASHER	20015C
4	1	UPPER ASSY-TESTER SEE NOTE 8	B-948-12
3	1	GASKET	B-948-13
2	1	PLUG (24 NPT THD)	B-948-14
1	1	BRACKET ASSY	B-948-15

ITEM	QTY	TITLE	UNIT NUMBER
1	1	SEAT DISC ASSY	B-948-7
2	1	PLUG (24 NPT THD)	B-948-14
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14	1	TAG TORQUE (1100)	B-948-8
15	1	SEAT DISC ASSY SEE NOTE 9	B-948-7

- NOTES:**
- CLEAN PER B-11550-400 OXYGEN SERVICE ASSEMBLY AND TEST IN A CLEAN AREA. STAMP DATE CODE ON BOMMET FLAT. PRIOR TO TESTING, CLOSE VALVE COMPLETELY.
  - IF THE VALVE IS TO BE USED WITH PTFE TAPE (11550-544) AND ASSEMBLE INTO MANIFOLD. INSTALL ADAPTER INTO PRIV. OUTLET. INSTALL ADAPTER INTO PRIV. OUTLET. INSTALL ADAPTER INTO PRIV. OUTLET. INSTALL ADAPTER INTO PRIV. OUTLET. INSTALL ADAPTER INTO PRIV. OUTLET.
  - WRAP THREADS WITH PTFE TAPE (11550-544) AND ASSEMBLE INTO 1946A SEAL PRODUCT IN A CLEAN AREA. USE OXYGEN CLEAN INFORMATION IN OR ON BAG.
  - SEAL PRODUCT IN A CLEAN AREA. USE OXYGEN CLEAN INFORMATION IN OR ON BAG.
  - B-948-7 SEAT DISC ASSY (845) TO BE USED WITH B-948-12 UPPER ASSEMBLY (TESTER) (44).

ATTACHMENT TO  
 C.R.N. CSA-07203515  
 Signed: *Abby [Signature]*  
 178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

APPROVED/CONTROLLED

CHART

MANIFOLD  
VALVE UNIT 1/A

MVEL3C



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](http://www.tssa.org)

October 18, 2018

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

Service Request Type.: BPV-National MB  
Service Request No.: 2316394  
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.: 0H20351.54.

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](mailto:customerservices@tssa.org). When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Tanya Francis  
Administrative Assistant\_ BPV Engineering  
Tel. : 416-734-3423  
Fax : 416-231-6183  
Email : [tfrancis@tssa.org](mailto:tfrancis@tssa.org)



**Inspection and Technical Services Manitoba**  
500 - 401 York Avenue  
Winnipeg Manitoba R3C 0P8  
T (204) 945-3373  
F (204) 948-2309  
[www.firecomm.gov.mb.ca/codes\\_steam\\_pressure.html](http://www.firecomm.gov.mb.ca/codes_steam_pressure.html)

September 17, 2018

TSSA  
345 Carlingview Drive  
Toronto, ON  
M9W 6N9

Attn: Joanna Karpinski

## 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
MVE13C Rev. E	0H20351.54	39014

**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*
- *See attached stamped "this is part of CRN" for scope of registration.*
- *This registration expires **May 16, 2028**.*

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.

Yours truly,

Rabie Harb, P. Eng.  
*Engineer*  
Office of the Fire Commissioner  
Inspection and Technical Services Manitoba  
508 - 401 York Avenue  
Winnipeg, Manitoba, R3C 0P8  
Phone: 204-945-3373  
Email: [rabie.harb@gov.mb.ca](mailto:rabie.harb@gov.mb.ca)

NOTE: This registration expires on: May 16, 2028

Dated: 2018/09/17

Registered by: Zabie Harb

CRN: PH20351.54

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"



(Signature of Declarer)

*Jennifer Versage Watson*

Jennifer Versage Watson  
Notary Public  
Rockingham County  
North Carolina  
My Commission Expires 03/05/2023

(Signature)

*Jennifer Versage Watson*

Commissioner for Oaths:

Jennifer Versage Watson

the

20th

day of

April

AD 20 18

Declared before me at Alamance County in the state of North Carolina

(drawings, calculations, test reports, etc.)

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO9001 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 - MVE13C

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; which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service; (Title of recognized North American Standard)

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 B31.3

Located at 100 REGO DRIVE, ELON, NC - 27244 (Plant Address) 336-449-7707 (Telephone No.)  (Fax No.) (Name of Manufacturer)

of ENGINEERED CONTROLS INTERNATIONAL, LLC (Name and Position, e.g. President, Plant Manager, Chief Engineer)

I, CHAD THOMAS, VP GLOBAL ENGINEERING

# STATUTORY DECLARATION Registration of Fittings

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



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





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

