



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 17, 2018

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

**Service Request Type:** BPV-Fitting Registration  
**Service Request No.:** 2300260  
**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.:** 0H20354.5  
**Main Design No.:** Dwg. No. MVE13D Rev. A, Manifold Vent Circuit HL  
**Expiry Date:** 17-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  
 Fax: 416.231.6183  
 Customer Service: 1.877.682.8772  
 www.tssa.org

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

*MJG*

Date of Application (mm/dd/yyyy): 12/16/2016  
 Expedited Service (please attached request form)

**INTAKE GROUP**  
 Date: \_\_\_\_\_  
 SR #: 2300260-DNT  
 Agent: 2300266-NAT

Please indicate the type of design:  Boiler  Pressure Vessel  Fitting  
 Existing CRN: \_\_\_\_\_ (if applicable)

<b>Section A: Submitter</b> 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: GHAD THOMAS E-mail: cthomas@regoproducts.com Job No./Reference: _____ Drawing/Catalog No.: MVE13D REV.A	<b>Section B: Invoicee</b> Company Name: _____ Same as: <input checked="" type="checkbox"/> A <input type="checkbox"/> C <input type="checkbox"/> D Address: _____ City/Town: _____ Province/State: _____ Postal/Zip Code: _____ Country: _____ Telephone: _____ Fax: _____ Contact Name: _____ E-mail: _____ Purchase Order No.: _____ Acct/Cust No.: A-UC0283 C91391
--	---

<b>Section C: Owner of Design/CRN</b> Same as: <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> D Company Name: _____ Address: _____ City/Town: _____ Province/State: _____ Postal/Zip Code: _____ Country: _____ Telephone: _____ Fax: _____ Contact Name: _____ E-mail: _____ Acct/Cust No.: _____	<b>Section D: Manufacturer</b> Same as: <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C (If more then one please attach list) Company Name: _____ Address: _____ City/Town: _____ Province/State: _____ Postal/Zip Code: _____ Country: _____ Telephone: _____ Fax: _____ Contact Name: _____ E-mail: _____ Acct/Cust No.: _____
---	---

**Registration required in the following jurisdictions:**

<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"/> 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: *Chel Thomas* Date (mm/dd/yyyy): 12/16/2016  
 Date: MAY 17, 2018 (mm/dd/yyyy) Reviewing Engineer: *M. J. Vanece* CRN Issued: **OH/20354.5**



Technical Standards and Safety Authority  
 345 Carlingview Drive  
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 Fax: 416.231.6183  
 Customer Service: 1.877.682.8772  
 www.tssa.org

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

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)

**INTAKE GROUP**  
 Date: 2300260-ONT  
 SR #: 2300266-NAT  
 Agent: 2300266-NAT

**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.: A-400283 0913915  
**Section C: Owner of Design/CRN** same as:  A  B  D  
 Same as:  A  B  C

**Section B: Invoicee**  
 Company Name:  
 Address:  
 City/Town: Province/State:  
 Postal/Zip Code: Country:  
 Telephone: Fax:  
 Contact Name:  
 E-mail:  
 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.:

Registration required in the following jurisdictions:  
 Ontario  Saskatchewan  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 Thomas Date (mm/dd/yyyy): 12/16/2016  
 Date: \_\_\_\_\_  
 Reviewing Engineer: \_\_\_\_\_  
 CRN Issued: \_\_\_\_\_



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 this application, 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 Int'l** in the **County** of **Alamance, NC**

the **1st** day of **February** AD 20 **18**.

Commissioner for Oaths:

**Marisa E. Elliott**

(Printed name)

*Marisa E. Elliott*

(Signature)

*Chad Thomas*

(Signature of Declarer)

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

MY COMMISSION EXPIRES  
**8/31/2021**

#### 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**

**0420354.5**

CRN:

**MARK VALCIC, P.ENG.**

Registered by:

**MAY 17, 2018**

Dated:

**MAY 17, 2018**

NOTE: This registration expires on:

**MAY 30, 2018**

NOTE: DWG. NO. MVE130 REV. A U/A  
RES. STD. ASME B31.3

Boilers and Pressure Vessels Safety Program

Technical Standards and Safety Authority

REGISTERED

Office

CRN: **0420354.5**

Signed: *Chad Thomas*

Date: **MAY 17, 2018**

Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	MVE13D	Manifold	9464-5	9464-5	Brass Forging, UNS C37700, ASTM B283	600
			MVE13D-2	9464-7	Stainless Steel Pipe, ASTM A213, UNS 30403	600
			MVE13D-2	MVE13D-3	FC Brass, UNS C36000, ASTM B16	600
			MVE13D-5	MVE13D-5	FC Brass, UNS C36000, ASTM B16	600
			MVE13D-2	MVE13D-6	Stainless Steel Pipe, ASTM A249, UNS 30403	600
			MVE13D-2	MVE13D-4	FC Brass, UNS C36000, ASTM B16	600
			MVE13D-2	MVE13D-7	Stainless Steel Pipe, ASTM A312, UNS 30403	600
			MVE13D-2	1337-32	Stainless Steel Pipe, ASTM A249, UNS 30403	600
			BK9408S-1	BK9408S-1	Bronze Cast Alloy, ASTM B61/B584, UNS C92200	600
			B8404-KITU	B8404-19SS	Stainless Steel Pipe, ASTM A249/A213, UNS 30403	600
			B8404-6	B9402-11	FC Brass, UNS C36000, ASTM B16	600
			B8408-6	B9408-11	FC Brass, UNS C36000, ASTM B16	600

Office



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

July 20, 2018

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

Service Request Type.: BPV-National AB  
Service Request No.: 2316676  
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.: 0H20354.52.

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)



June 27, 2018

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

**Email:** JKarpinski@tssa.org

The design submission, tracking number 2018-03573, originally received on June 04, 2018 was surveyed and accepted for registration as follows:

**CRN :** 0H20354.52

**Accepted on:** June 27, 2018

**Reg Type:** NEW DESIGN

**Expiry Date:** May 17, 2028

**Drawing No. :** MVE13D Rev 15 As Noted

**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 B31.1.*

*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.*

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 (name of applicant) (position title) of ENGINEERED CONTROLS INTERNATIONAL, LLC. (name of manufacturer) located at 100 REGO DRIVE, ELON, NC- 27244 (plant address)



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

- comply with the requirements of ASME B31.1 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 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"

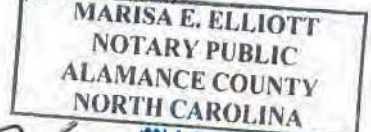
(brief description of fittings)

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, North Carolina this 1st day of February, 2018

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

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



(signature of applicant) Chad Thomas my commission expires 8/31/2021

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

Registration Number: OH20354.52

Date Registered: 2018-06-27

(Signature of the Administrator/SCO)

Expiry Date: 2028-05-17



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.: 2316684  
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.: 0H20354.59870YTN.

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      NOVA SCOTIA      PRINCE EDWARD ISLAND      NEWFOUNDLAND AND LABRADOR  
 MUNAVUT      YUKON      NORTHWEST TERRITORIES

MANUFACTURER'S NAME: <b>ENGINEERED CONTROLS INTERNATIONAL LLC</b>	
MANUFACTURER'S ADDRESS: <b>100 REGO DRIVE, ELON, NC-27244</b>	
PLANT LOCATION: <b>SAME AS ABOVE</b>	
<b>CATEGORY OF FITTINGS TO BE REGISTERED. CHECK 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 flexible plugs <input checked="" type="checkbox"/> H Pressure retaining components that do not fall into one of the above categories I Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting AECB or ASME requirements)	TYPE OF REGISTERED FITTING  <b>ASME B31.1</b>
SHOW MANUFACTURER'S NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT  	TYPE OF CONSTRUCTION FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:  <b>SEE ATTACHED LISTING</b>	

**DECLARATION:**  
 I **CHAD THOMAS** (see how I am employed by **ECLIC**) 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/ULINC** 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 **Engineered Controls International, NC**  
 This **1st** day of **February** AD **2018**  
 Commissioner of Oaths or Notary Public: (sign) **Marisa E. Elliott**  
 (After Official seal to the right)

**MARISA E. ELLIOTT**  
 NOTARY PUBLIC  
 CALMANCE COURT  
 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: **QH20354.5**

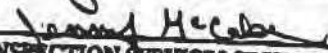
FID#: **7704**

**ACCEPTED**

PROVINCE OF PRINCE EDWARD ISLAND  
 COMMUNITIES, LAND & ENVIRONMENT

C.R.N.: **QH20354.59**

DATE: **June 8 2018**

  
 INSPECTION SERVICES SECTION  
 BOILER/PRESSURE VESSEL BRANCH

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: <b>ENGINEERED CONTROLS INTERNATIONAL LLC</b>	
MANUFACTURERS ADDRESS: <b>100 REGO DRIVE, ELON, NC-27244</b>	
PLANT LOCATIONS: <b>SAME AS ABOVE</b>	
<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><input checked="" type="checkbox"/> H Pressure retaining components that do not fall into one of the above categories</p> <p>I Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting AECB or ASME requirements)</p>	TITLE OF THE STANDARD OF CONSTRUCTION  <b>ASME 31.1</b>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
	TYPE OF CONSTRUCTION FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:  SEE ATTACHED LISTING	

**DECLARATION:**

I **CHAD THOMAS** (name) employed by **ECLLC** 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/ULINC** 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 **Engineered Controls International, NC**

This **1st** day of **February** AD **2018**

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

(Affix Official seal to the right)

**MARISA E. ELLIOTT**  
NOTARY PUBLIC FOR THE  
OARLAMANCE 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: **0H20354.5**

FID#: **1704**

**Notes:**

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

**BOILER & PRESSURE VESSEL**  
NOVA SCOTIA  
Date **June 8/18**  
C.R.N. **0H20354.58**  
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: <b>ENGINEERED CONTROLS INTERNATIONAL LLC</b>	
MANUFACTURERS ADDRESS: <b>100 REGO DRIVE, ELON, NC-27244</b>	
PLANT LOCATIONS: <b>SAME AS ABOVE</b>	
<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"/> H Pressure retaining components that do not fall into one of the above categories                  I 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"><b>ASME 31.2</b></p>
SHOW MANUFACTURERS 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 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> <p align="center">SEE ATTACHED LISTING</p>	

**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 INC** 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 **Engineered Controls International, NC** U S E T H

This **1st** day of **February** AD **2018**

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

(Affix Official seal to the right)

MARISA E. ELLIOTT  
NOTARY PUBLIC FOR THE  
CALAMANCE COURTYL  
NORTH CAROLINA

my commission expires 8/31/2021

This space for Regulatory Authority use New Brunswick / Nouveau Brunswick

This registration must be revalidated after ten (10) years from the date of each mark

CRN: 0H20354.5

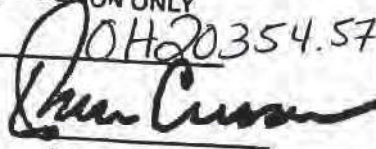
FID#: 1704

Notes:

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

**REGISTRATION ONLY**

CRN 0H20354.57

EXAMINER 

or  
CHIEF INSPECTOR

DATE 6/8/2018

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>	
<p><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="radio"/> H Pressure retaining components that do not fall into one of the above categories                  I Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/>. (Meeting AECB or ASME requirements)</p>	<p><b>TITLE OF THE STANDARD OF CONSTRUCTION</b></p> <p align="center"><u>ASME 31.2</u></p>
<p><b>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</b></p> <div style="display: flex; align-items: center;">  <div style="border: 1px solid black; padding: 5px;"> <p><b>TYPE OF CONSTRUCTION</b></p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/>                      CAST <input type="checkbox"/> OTHER <input type="checkbox"/>                      DESCRIBE OTHER:</p> </div> </div>	
<p><b>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</b></p> <p align="center">SEE ATTACHED LISTING</p>	

**DECLARATION:**

I, CHAD THOMAS (see note 2) 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/ULINC 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 International, NC

This 1st day of February AD 2018

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

(Affix Official seal to the right)

MARISA E. ELLIOTT  
 NOTARY PUBLIC FOR THE  
 CALAMANCE COUNTRY  
 NORTH CAROLINA

my commission expires 8/31/2021

<p>This space for Regulatory Authority use</p> <p>This registration must be revalidated after ten (10) years from the date of acceptance.</p>	
<p>CRN: <u>0H20354.5</u></p> <p>FIB#: <u>1704</u></p>	<p><b>Service NL</b></p> <p>Registered <u>0H20354.50</u></p> <p>Date <u>14 JUNE 2018</u></p> <p>Engineering and Inspection Services</p> <p>Registered by <u><i>S. Sigdon</i></u></p>
<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>	
<p>UNDER THE AUTHORITY OF THE                  PUBLIC SAFETY ACT AND                  THE BOILER, PRESSURE VESSEL AND                  COMPRESSED GAS REGULATIONS</p>	

**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>	
<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 <input checked="" type="checkbox"/> H Pressure retaining components that do not fall into one of the above categories I Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting AECB or ASME requirements)	TITLE OF THE STANDARD OF CONSTRUCTION  <p align="center" style="font-size: 1.2em;">ASME 31.2</p>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT  <div style="text-align: center; font-size: 1.5em; font-weight: bold;">REGO®</div>	TYPE OF CONSTRUCTION: FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:  SEE ATTACHED LISTING	

**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/ ULINC 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 International, NC U S E

This 1st day of February AD 2018

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

(Affix Official seal to the right)

**MARISA E. ELLIOTT**  
 THE NOTARY PUBLIC OR THE  
 OAKLAND 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: OH20354.5

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.




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

NEW BRUNSWICK  
NUNAVUT

NOVA SCOTIA  
YUKON

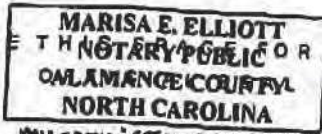
PRINCE EDWARD ISLAND  
NORTHWEST TERRITORIES

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>	
<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 live 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"/> H Pressure retaining components that do not fall into one of the above categories          All-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 31.2</u></p>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
	
<p align="center">TYPE OF CONSTRUCTION</p> <p>FORGED OR WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/>          CAST <input type="checkbox"/> OTHER <input type="checkbox"/>          DESCRIBE OTHER: _____</p>	
<p><b>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</b></p> <p align="center">SEE ATTACHED LISTING</p>	

**DECLARATION:**  
 I CHAD THOMAS (hereinafter referred to as "I") employed by ECI LLC and being the person having full authority and responsibility for the quality of the said 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 INC 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 Declarant: *Chad Thomas*  
 Declared before me at Engineered Controls International, NC  
 This 1st day of February AD 2018  
 Commissioner of Oaths or Notary Public: (sign) *Marisa E. Elliott*  
(Affix Official seal to the right)

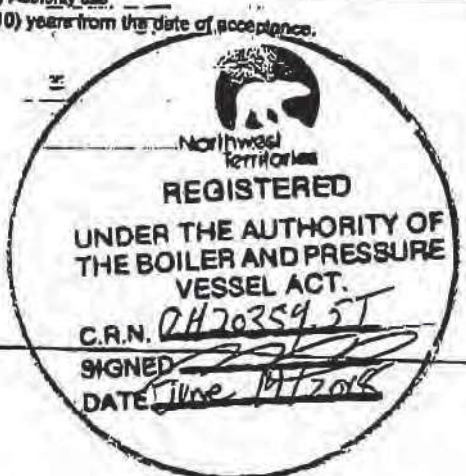
  
 my commission expires 8/31/2021

This space for Regulatory Authority use.

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

CRN: 0H20354.5  
 FID#: 7704

**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 said 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: ENGINEERED CONTROLS INTERNATIONAL, LLC	
MANUFACTURERS ADDRESS: 100 REGO DRIVE, ELON, NC-27244	
PLANT LOCATIONS: SAME AS ABOVE	
<b>CATEGORY OF FITTING 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 I Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting AECB or ASME requirements)	TITLE OF THE STANDARD OF CONSTRUCTION  <p align="center">ASME 31.1</p>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
	TYPE OF CONSTRUCTION FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:	
SEE ATTACHED LISTING	

**DECLARATION:**

I, CHAD THOMAS (see note 2) 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/ULINC 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: [Signature]  
 Declared before me at Engineered Controls International, NC  
 This 15<sup>th</sup> day of February AD 2018  
 Commissioner of Oaths or Notary Public: (sign) Marisa E. Elliott  
 (Affix Official seal to the right)

MARISA E. ELLIOTT  
 NOTARY PUBLIC FOR THE  
 OAKLAND 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: OH20354.5  
 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.

**NUNAVUT**  
 Boilers and Pressure Vessels Act

**REGISTERED**

CRN OH 20354.N  
 Date June 08, 2018  
 Signed [Signature]  
 Chief Inspector

**Territorial Registration Fee**



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 BC  
Service Request No.: 2316680  
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.: 0H20354.51.

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,

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

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

**Date:** June 15, 2018  
**Account #:** 35231  
**Journal #:** 70906

**Attn:** TANYA FRANCIS

**Re:** Application for Design Registration

The design, as detailed in your, TSSA SR# 2316680, for a Fitting is accepted for registration as follows:

**Registered To:** ENGINEERED CONTROLS INTERNATIONAL LLC **CRN:** 0H20354.51

**MDMT:** -320 deg F

**MAWT:** 165 deg F

**MAWP:** 600 psig

**Drawing #:** MVE13D

**Drawing Revision:** A

**Conditions Of Registration:**

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

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 17, 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:**

Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	MVE13D	Manifold	9464-5	9464-5	Brass Forging, UNS C37700, ASTM B283	600
			MVE13D-2	9464-7	Stainless Steel Pipe, ASTM A213, UNS 30403	600
			MVE13D-2	MVE13D-3	FC Brass, UNS C36000, ASTM B16	600
			MVE13D-5	MVE13D-5	FC Brass, UNS C36000, ASTM B16	600
			MVE13D-2	MVE13D-6	Stainless Steel Pipe, ASTM A249, UNS 30403	600
			MVE13D-2	MVE13D-4	FC Brass, UNS C36000, ASTM B16	600
			MVE13D-2	MVE13D-7	Stainless Steel Pipe, ASTM A312, UNS 30403	600
			MVE13D-2	1337-32	Stainless Steel Pipe, ASTM A249, UNS 30403	600
			BK9408S-1	BK9408S-1	Bronze Cast Alloy, ASTM B61/B584, UNS C92200	600
			B8404-KITU	B8404-19SS	Stainless Steel Pipe, ASTM A249/A213, UNS 30403	600
			B8404-6	B9402-11	FC Brass, UNS C36000, ASTM B16	600
			B8408-6	B9408-11	FC Brass, UNS C36000, ASTM B16	600



CRN #: 0H20354.51

Date: June 5, 2018

BC J#: 70906





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.: 2316690  
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-0H20354.56.

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-0H20354.56

Registration Process administered by  
 CSA Group per CSA B51

## Statutory Declaration Registration of Fittings

### (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 B31.1, 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

Declared before me at Engineered Controls International, LLC

In the of County of Alamance, NC

The 9th Day of March AD 19 2018

Marisa E. Elliott  
 A (commissioner for oaths)

MARISA E. ELLIOTT  
 NOTARY PUBLIC  
 ALAMANCE COUNTY  
 NORTH CAROLINA

8/31/2021

my commission expires

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 17 2028

Registered Number CRN CSA-0H20354.56

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.





REGISTERED  
CRN: CSA-0H20354.56  
Registration Process administered by  
CSA Group per CSA B51

REGISTERED   
CRN: CSA-0H20354.56  
Registration Process administered by  
CSA Group per CSA B51

Technical Review performed per CSA B51  
Performed by: ANRIC Enterprises Inc.  
Signed: *[Signature]*  
Date: 13 June 2018

MARISA E. ELLIOTT  
NOTARY PUBLIC  
ALAMANCE COUNTY  
NORTH CAROLINA



Signed: A. BANWATT  
Date: JUNE 13 2018

2202 2nd Ave.  
Regina, SK S4R 1K3  
Free: (866)530-8599  
FAX: (306)787-9273 Toll  
Email: [boilerpermits@tsask.ca](mailto:boilerpermits@tsask.ca)  
Website: [www.tsask.ca](http://www.tsask.ca)

**Statutory Declaration (Registration of Fittings)**

TSK-1008

**I. Declaration Information**

I, Chad Thomas, V.P of Engineering **CRN: CSA-0H20354.56**  
(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)

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



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

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

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


*my commission expires 8/31/2021*

**II. Declaration**

DECLARED before me at Engineered Controls, Int'l In the County of Alamance, NC  
this 9th day of March, 2018  
Marisa E. Elliott Chad Thomas  
(print name) (Signature)  
Marisa E. Elliott  
(Signature of Commissioner of Oaths)

**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


(Registration Number) **REGISTERED**   
**CRN: CSA-0H20354.56**  
Registration Process administered by  
CSA Group per CSA B51

June 13 2018 MAY 17 2028  
(Date Registered - MM DD YYYY) (Expiry Date - MM DD YYYY)  
(For the Administrator / Chief Inspector) A. BANWATT



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

Technical Review performed per CSA B51  
Performed by: ANRIC Enterprises Inc.  
A. BARNWELL  
JUNE 10 2018

**REGISTERED**   
**CRN: CSA-071203456**  
Registration Process administered by  
CSA Group per CSA B51

REGISTERED  
CSA B51

Technical Review performed per CSA B51  
Performed by: ANRIC Enterprises Inc.  
Signed: *[Signature]*  
Date: 13 June 2018

MARISA E. ELLIOTT  
NOTARY PUBLIC  
ALAMANCE COUNTY  
NORTH CAROLINA

REGISTERED   
CRN: CSA-071203456  
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 8772

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

May 17, 2018

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

**Service Request Type:** BPV-Fitting Registration

**Service Request No.:** 2300260

**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.:** 0H20354.5

**Main Design No.:** Dwg. No. MVE13D Rev. A, Manifold Vent Circuit HL

**Expiry Date:** 17-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)







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.: 2316698  
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.: 0H20354.54.

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
MVE13D Rev. A	0H20354.54	39015

**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 17, 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)



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

(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 \_\_\_\_\_ 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 Int'l in the County of Alamance, NC

the 1st day of February AD 20 18

Commissioner for Oaths:

Marisa E. Elliott

(Printed name)

Marisa E. Elliott

(Signature)

Chad Thomas  
 (Signature of Declarer)

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

My Commission exp  
8/31/2021

**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: PH20354.54

Registered by: Robie Harb

Dated: 2018/09/17

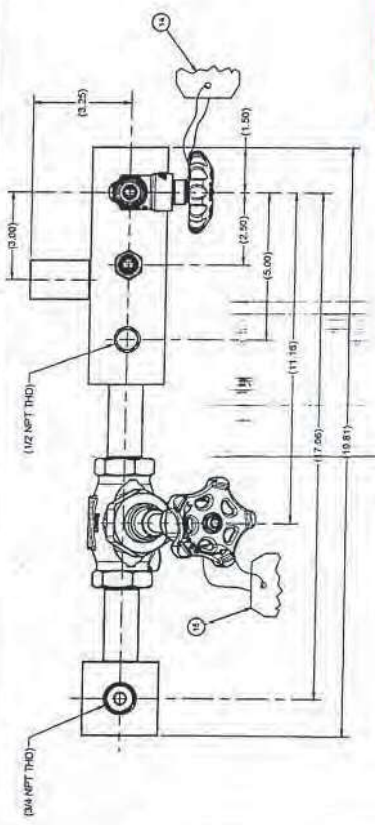
NOTE: This registration expires on: May 17, 2028







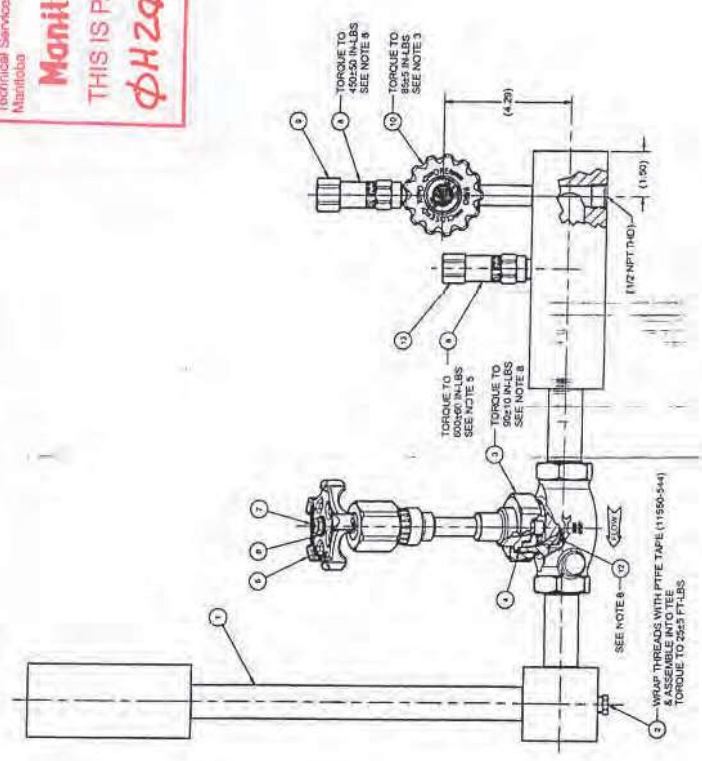
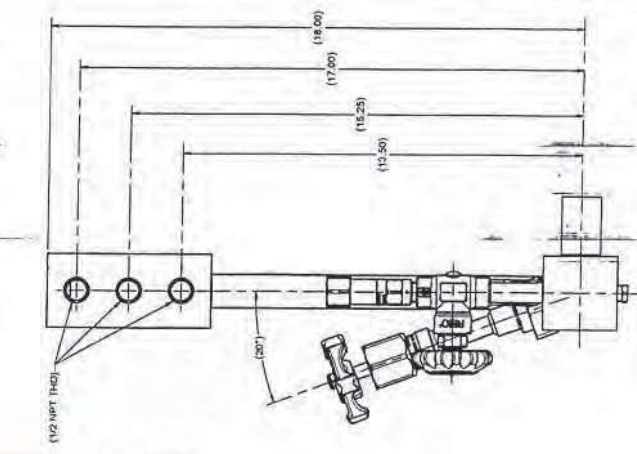
Cecylia Garbacz, a Commissioner, etc.  
City of Toronto, for the Technical  
Standards & Safety Authority  
Expires June 17, 2020.



Inspection & Technical Services  
Manitoba  
Office of the Fire Commissioner  
**Manitoba**  
THIS IS PART OF CRN  
**PH20354.54**

- NOTES:**
1. CLEAN & PACKAGE PER B-11550-400 OXYGEN SERVICE.
  2. ASSEMBLE AND TEST IN A CLEAN AREA.
  3. STAMP DATE CODE ON BONNET FLAT. PRIOR TO TESTING, CLOSE VALVE COMPLETELY.
  4. TEST PER 6400-100 PROCS TO INSTALLING PRV'S.
  5. AFTER TESTING, WRAP THREADS OF PRV19404P005 (ITEM 8) WITH PTFE TAPE (11550-544) AND ASSEMBLE INTO MANIFOLD. INSTALL ADAPTER (ITEM 9) INTO PRV.
  6. WRAP THREADS OF PRV433P022 (ITEM 11) WITH PTFE TAPE (11550-544) AND ASSEMBLE INTO T344 OUTLET. INSTALL ADAPTER (ITEM 13) INTO PRV.
  7. ATTACH CLOSURES TO ALL END CONNECTIONS TO PROTECT AND SEAL OPENINGS.
  8. SEAT DISC ASSEMBLY TO BE USED WITH UPPER ASSEMBLY KIT.

**THIS IS PART OF  
CRN 0110354.5**  
Technical Standards & Safety Authority  
Boilers & Pressure Vessels  
Safety Program  
*W. L. KAY 17/18*



ITEM NO.	QTY	DESCRIPTION	PART NUMBER
18	1	FLG TORQUE (100)	7500018
19	1	FLG TORQUE (200-1100)	7500019
20	1	ADAPTER	4072018
21	1	SEAT DISC ASST	4072018
22	1	NOV. RETIGHT (2" PIPE 1.8 IN)	4072018
23	1	NOV. RETIGHT (2" PIPE 1.8 IN)	4072018
24	1	SEAT DISC ASST	4072018
25	1	VALVE BELLET (M PISO 1.8 IN)	4072018
26	1	VALVE BELLET (M PISO 1.8 IN)	4072018
27	1	MANIFOLD	4072018
28	1	MANIFOLD	4072018
29	1	SEAT DISC ASST (INTERESTED)	4072018
30	1	SEAT DISC ASST (INTERESTED)	4072018
31	1	PLUS, PTFE	4072018
32	1	PLUS, PTFE	4072018
33	1	SEAT DISC ASST (INTERESTED)	4072018
34	1	SEAT DISC ASST (INTERESTED)	4072018
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98	1	SEAT DISC ASST (INTERESTED)	4072018
99	1	SEAT DISC ASST (INTERESTED)	4072018
100	1	SEAT DISC ASST (INTERESTED)	4072018

APPROVED/CONTROLLED

CHART