



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)

March 24, 2017

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

Service Request Type: BPV-Fitting Registration  
Service Request No.: 1987212  
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.: OH19256.5**  
**Main Design No.: BK9412-SQ4 Pipe Assembly, Part List**  
**Expiry Date: 24-Mar-2027**

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

*Note: Design and construction in accordance with B31.1 code, Maximum allowable working pressure 600 psi at 165 °F. The assembly shall be pressure tested per paragraph 137 in ASME B31.1.*

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,

  
Ruiying You, P.Eng.  
Mechanical Engineer, BPV  
Tel.: 416-734-3428  
Fax: 416-231-6183  
Email: [ryou@tssa.org](mailto:ryou@tssa.org)



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 Elon in the State of North Carolina  
the 4<sup>th</sup> day of November AD 2016.

Commissioner for Oaths:

Brenda J. Bucci

(Printed name)

Brenda J. Bucci

(Signature)

My Commission Expires April 17, 2021

BRENDA J. BUCCI  
NOTARY PUBLIC  
ALAMANCE COUNTY  
NORTH CAROLINA

Chad M. Thomas

(Signature of Declarer)

### FOR OFFICE USE ONLY

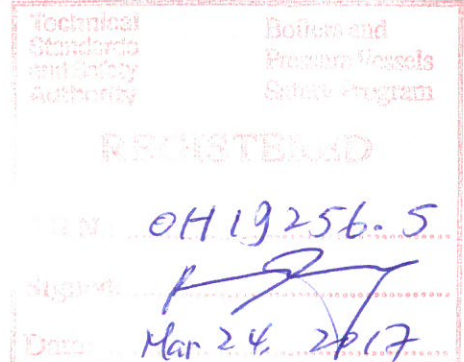
To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category H.

CRN: OH19256.5

Registered by: RUIMING YOU

Dated: Mar. 24, 2017

NOTE: This registration expires on: Mar. 24, 2027



Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	BK9412-SQ4	Globe Valve	B-9409-1C	B-9412PU-1	Bronze Cast Alloy, UNS C92200, ASTM B61	600
			B-9412-22SP5	B-9412-22SP5	Stainless Steel Pipe, ASTM A312, TP304L	600
			B-9412-22SP4	B-9412-22SP4	Stainless Steel Pipe, ASTM A249, TP304L	600
			450073	450073	Stainless Steel Pipe, ASTM A249, TP304L	600

THIS IS PART OF  
CRN 0419256.5  
Technical Standards & Safety Authority  
Boilers & Pressure Vessels  
Safety Program



To:	TSSA	From:	Janet Townsend
Company:	Engineered Controls International LLC	Phone:	416-747-4291
Pages:	8	Location:	Toronto
Our File:	ANR-4529	Date:	August 29, 2017

Your File: 2069320

**Subject: Request for Design Registration**

Dear Ms. Francis,

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

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

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

The CRN is CSA-0H19256.56.

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

Yours truly,

A handwritten signature in blue ink that reads 'Janet Townsend'.

**Janet Townsend**  
Program Manager  
CSA Group

178 Rexdale Blvd.  
Toronto, ON, M9W 1R3





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 Elon in the State of North Carolina  
the 4<sup>th</sup> day of November AD 20 16

Commissioner for Oaths:

Brenda J. Bucci

(Printed name)

Brenda J. Bucci

(Signature)

Chad M. Thomas

(Signature of Declarer)

My Commission Expires: April 17, 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: CSA-0H19256.56

Registered by: A. BANWATT

Dated: AUGUST 24, 2017

NOTE: This registration expires on: MARCH 24, 2027


REGISTERED



CRN: CSA-0H19256.56

Registration Process administered by  
CSA Group per CSA B51



REGISTERED 

~~CR~~ **CSA-0H19256-56**

Registration Process administered by  
CSA Group per CSA B51

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

Signed: ASBwalt

Date: August 24, 2017



**CERTIFIED  
TRUE COPY**

Date: 27 Nov 17

Signature: C. Garbarz

Cecylia Garbarz, a Commissioner, etc.,  
City of Toronto, for the Technical  
Standards & Safety Authority  
Expires June 17, 2017

Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	BK9412-SQ4	Globe Valve	B-9409-1C	B-9412PU-1	Bronze Cast Alloy, UNS C92200, ASTM B61	600
			B-9412-22SP5	B-9412-22SP5	Stainless Steel Pipe, ASTM A312, TP304L	600
			B-9412-22SP4	B-9412-22SP4	Stainless Steel Pipe, ASTM A249, TP304L	600
			450073	450073	Stainless Steel Pipe, ASTM A249, TP304L	600


2d/2

ATTACHMENT (U)

C.R.N. CSA OH 19256-56

Signed: [Signature]

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

THIS IS PART OF  
**CRN** OH 19256-5  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program



March 2017

## **CRN – Canadian Registration Numbers - Saskatchewan**

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

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

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





345 Carlingview Drive  
Toronto, Ontario  
CANADA M9W 6N9  
Tel.: 416.734.3300  
Fax.: 416.231.1626  
Toll Free: 1.877.682.8772  
[www.tssa.org](http://www.tssa.org)

April 24, 2018

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

Service Request Type.: BPV-National AB  
Service Request No.: 2069310  
Your Reference No.:  
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC  
ONT CRN: 0H19256.5.

Dear CHAD CHAD,

Please find enclosed the original response from AB, registered under the CRN No.: 0H18386.2

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)

March 08, 2018

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

**Email:** tfrancis@tssa.org

The design submission, tracking number 2017-02658, originally received on May 03, 2017 was surveyed and accepted for registration as follows:

**CRN :** 0H18386.2 **Accepted on:** March 08, 2018  
**Reg Type:** NEW DESIGN **Expiry Date:** March 08, 2028  
**Drawing No. :** BK9412-SQ4 Rev B  
**Fitting type:** 1.5" GLOBE VALVE ASSEMBLY  
Design registered in the name of : ENGINEERED CONTROLS INTERNATIONAL LLC

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

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

*TSSA Service Request No.: 2069310*

*As per you email on February 15 is our understanding that the attachment of the riser tube assembly to the tube is a full penetration groove weld followed by a 3/32" fillet weld as per Fig. 328.5.4D Sketch 1 (drawing B-9400-61 SER, item #1 to 2).*

*As per the provided calculations:*

- Material for the mueller flange (450115) and lower bonnet (B-9409-20) is B283 C37700.
- OD of the mueller flange hub is 2.0".

*This registration includes the following drawings:*

- Assembly & sub-assembly drawings: BK9412-SQ4 Rev B, B-14184322 Sheets 1/2 Rev C, B-9412-61SP3 Rev B, B-9400-61 SER Rev A, 450074-61 Rev B, B-9412-KITU Rev F, and B-9410-6 Rev B.
- Part drawings: 450073 Rev A, 2227-21 Rev B, B-9412-22SP4 Rev A, B-9412PU-1 Rev C, B-9409-1C Rev E, 450115 Rev A, B-9412-22SP5 Rev B, B-9410-16SS Rev D, B-9410-11 Rev F, B-9409-20 Rev E, and B-9410-2 Rev B.

March 08, 2018

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

*As indicated on the 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.*

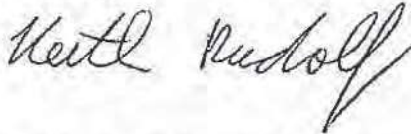
*This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this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

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 ext 3344 or fax (780) 437-7787 or e-mail [Rudolf@absa.ca](mailto:Rudolf@absa.ca).

Sincerely,



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



**STATUTORY DECLARATION  
Registration of Fittings**

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

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

**REGO®**

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

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

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

(brief description of fittings)

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

See attached list

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

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

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

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

my commission  
expires  
8/31/2021

Chad M. Thomas  
(signature of applicant)

**For ABSA Office Use Only:** "See Acceptance Letter for the comments  
and/or conditions of registration"

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: 0H18386.2

Heidi Rudolph  
(Signature of the Administrator/SCO)

Date Registered: MAR 08 2018

Expiry Date: Mar 08 2028

Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
<del>CH</del>	BK9412-SQ4	Globe Valve	B-9409-1C	B-9412PU-1	Bronze Cast Alloy, UNS C92200, ASTM B61	600
<del>HR</del>			B-9412-22SP5	B-9412-22SP5	Stainless Steel Pipe, ASTM A312, TP304L	600
			B-9412-22SP4	B-9412-22SP4	Stainless Steel Pipe, ASTM A249, TP304L	600
			450073	450073	Stainless Steel Pipe, ASTM A249, TP304L	600

Service Request # 1987212

**ASCA**  
SAFETY CODES ACT - PROVINCE OF ALBERTA  
REGISTRATION OF FITTINGS

REGISTRATION NO. 0H18386.2

DWG. NO. or CAT. NO. BK9412-SQ4 Rev B

TYPE OF FITTINGS 1.5" Globe Valve Assembly

**MAR 08 2018** INITIALS KEITH RUDOLF  
Date KEITH RUDOLF, P.Eng.  
DESIGN SURVEY ENGINEER

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





# CERTIFICATE



This is to certify that

0H18386.2

## 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

0H18386.2

**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**



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 21, 2017

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

Service Request Type.: BPV-National ACI Central  
Service Request No.: 2069316  
Your Reference No.:  
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD CHAD,

Please find enclosed the original response from PEI,NS,NB,NFLD,YK,NWT,NU,  
registered under the CRN No.: 0H19256.59870YTN.

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  
NUNAVUTNOVA SCOTIA  
YUKONPRINCE EDWARD ISLAND  
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: <u>Engineered Controls International, LLC</u>	
MANUFACTURERS ADDRESS: <u>100 Reed Drive Elon, NC 27244</u>	
PLANT LOCATIONS: <u>Elon</u>	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY	
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs <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)	TITLE OF THE STANDARD OF CONSTRUCTION  <u>ASME B31.1</u>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT  <b>REGO®</b>	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:  <u>See attached list.</u>	

## DECLARATION:

I, Chad Thomas (see note 2) employed by Engineered Controls International, 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:

Chad M. Thomas

Declared before me at

Elon, North CarolinaThis 4th day ofNovember AD 2016Commissioner of Oaths  
or Notary Public: (sign)Brenda J. Bucci

(Affix Official seal to the right)


 BRENDA J. BUCCI  
 NOTARY PUBLIC  
 ALAMANCE COUNTY  
 NORTH CAROLINA  
 USE THIS NOTARY PUBLIC SEAL FOR THE OFFICE OF THE
My Commission Expires: April 17, 2021

This space for Regulatory Authority use	
This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>OH19256.5</u>	ACCEPTED
FID#: <u>1704</u>	PROVINCE OF PRINCE EDWARD ISLAND COMMUNITIES, LAND & ENVIRONMENT
Notes:	C.R.N. <u>OH19256.59</u>
1. All fittings shall be registered in the name of the Manufacturer.	DATE: <u>May 12 2017</u>
2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.	<u>James M. Gibson</u>
3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.	INSPECTION SERVICES SECTION
4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.	BOILER/PRESSURE VESSEL BRANCH



**UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS**NEW BRUNSWICK  
NUNAVUTNOVA SCOTIA  
YUKONPRINCE EDWARD ISLAND  
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: <u>Engineered Controls International, LLC</u>	
MANUFACTURERS ADDRESS: <u>100 Reed Drive, Elon, NC 27244</u>	
PLANT LOCATIONS: <u>Elon</u>	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY	
A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs <input checked="" type="radio"/> 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)	TITLE OF THE STANDARD OF CONSTRUCTION  <u>ASME B31.1</u>
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
	
TYPE OF CONSTRUCTION FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> ET OTHER <input type="checkbox"/> DESCRIBE OTHER:	
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:  <u>See attached list.</u>	

**DECLARATION:**

I, Chad Thomas (name in 3) employed by Engineered Controls International, 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.

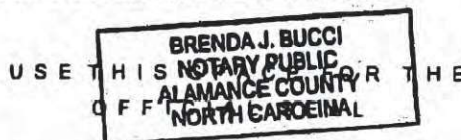
Signature of Declarer:

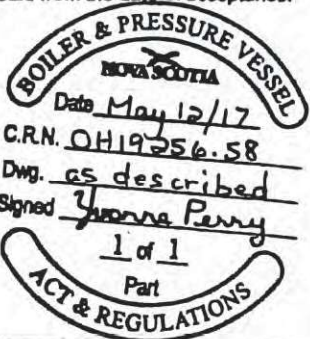
Chad M. Thomas

Declared before me at

Elon, North CarolinaThis 4th day ofNovember AD 2016Commissioner of Oaths  
or Notary Public: (sign)Brenda J. Bucci

(Affix Official seal to the right)

My Commission Expires: April 17, 2021

This space for Regulatory Authority use	
This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>0H19256.5</u>	
FID#: <u>1704</u>	
Notes:	
1. All fittings shall be registered in the name of the Manufacturer. 2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. 3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. 4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.	



# UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK  
NUNAVUT

NOVA SCOTIA  
YUKON

PRINCE EDWARD ISLAND  
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: <u>Engineered Controls International, LLC</u>	
MANUFACTURERS ADDRESS: <u>100 Reed Drive, Elon, NC 27246</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 <input checked="" type="radio"/> 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>  <u>ASME B31.1</u>
<b>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</b>  <div style="text-align: center; font-size: 2em; font-weight: bold;">REGO<sup>®</sup></div>	<b>TYPE OF CONSTRUCTION</b> FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:
<b>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</b>  <u>See attached list.</u>	

**DECLARATION:**

I, Chad Thomas (see note 3) employed by Engineered Controls International, 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: Chad Thomas

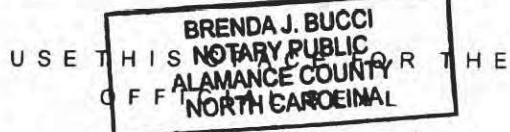
Declared before me at Elon, North Carolina

This 4th day of November AD 2016

Commissioner of Oaths

or Notary Public: (sign) Brenda J. Bucci

(Affix Official seal to the right)



My Commission Expires: April 17, 2021

This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance.  CRN: <u>OH19256.5</u>  FID#: <u>1704</u>	 <b>DEPT OF PUBLIC SAFETY</b> <b>BOILER &amp; PRESSURE VESSEL ACT</b>  <b>REGISTRATION ONLY</b> CRN <u>OH19256.57</u> EXAMINER <u>[Signature]</u> for <b>CHIEF BOILER INSPECTOR</b>
<b>Notes:</b> 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: 5/12/2017

☐ 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 Control International, LLC</u>	
MANUFACTURERS ADDRESS: <u>100 Reed Drive, Elon, NC 27824</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 <input checked="" type="radio"/> 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)	
TITLE OF THE STANDARD OF CONSTRUCTION <u>ASME B31.1</u>	
SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT <div style="text-align: center; font-size: 2em; font-weight: bold;">REGO<sup>®</sup></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: <u>See attached list.</u>	

## DECLARATION:

I, Chad Thomas (see note 3) employed by Engineered Control International, 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.

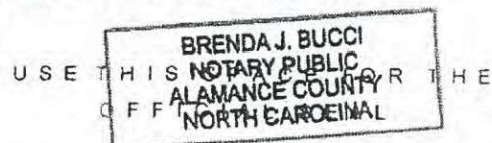
Signature of Declarer: Chad M. Thomas

Declared before me at Elon, North Carolina

This 4th day of November AD 2016

Commissioner of Oaths  
or Notary Public: (sign) Brenda J. Bucci

(Affix Official seal to the right)



My Comm: ss. - Expires: April 17, 2021

This space for Regulatory Authority use

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

CRN: 0H19256.5

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.

Newfoundland  
Labrador

Service NL

Registered 0H19256.50

Date 12/05/16

Engineering and Inspection Services

Registered by [Signature]

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 Rex 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 <input checked="" type="radio"/> 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>  <u>ASME B31.1</u>
<b>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</b>  <div style="text-align: center; font-size: 2em; font-weight: bold;">REGO<sup>®</sup></div>	<b>TYPE OF CONSTRUCTION</b> FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:
<b>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</b>  <u>See attached list.</u>	

**DECLARATION:**

I, Chad Thomas (see note 3) employed by Engineered Controls International, 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.

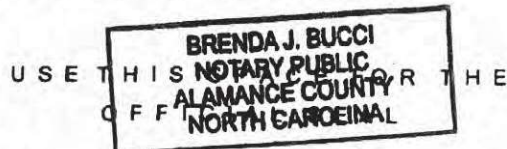
Signature of Declarer: Chad M. Thomas

Declared before me at Elon, North Carolina

This 4th day of November AD 2016

Commissioner of Oaths or Notary Public: (sign) Brenda J. Bucci

(Affix Official seal to the right)



My Commission Expires: April 17, 2021

This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>0H19256.5</u>  FID#: <u>1704</u>	
<b>Notes:</b> 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

MANUFACTURER'S NAME: <u>Engineered Controls International - LLC</u>	
MANUFACTURER'S ADDRESS: <u>100 Ross Drive, Elon, NC 27244</u>	
PLANT LOCATIONS: <u>Elon</u>	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY	
<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="radio"/> 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>TITLE OF THE STANDARD OF CONSTRUCTION</p> <p><u>ASME B31.1</u></p>
SHOW MANUFACTURER'S NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
<p><b>REGO®</b></p>	
TYPE OF CONSTRUCTION	
<p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/></p> <p>CAST <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>DESCRIBE OTHER:</p>	
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:	
<p><u>See attached list</u></p>	

**DECLARATION:**  
I, Chad Thomas (see note 3) employed by Engineered Controls International - 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: Chad M. Thomas  
Declared before me at Elon, North Carolina  
This 4th day of November AD 2016  
Commissioner of Oaths or Notary Public (sign) Brenda J. Bucci  
(Affix Official seal to the right)

USE THIS NOTARY PUBLIC  
OFFICIAL SEAL OF THE  
ALAMANCE COUNTY  
NORTH CAROLINA

My Commission Expires: April 17, 2021

This space for Regulatory Authority use	
This registration must be revalidated after ten (10) years from the date of acceptance	
CRN: <u>0H19256.5</u>	
FID#: <u>1704</u>	
Notes:	
<p>1. All fittings shall be registered in the name of the Manufacturer.</p> <p>2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.</p> <p>3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.</p> <p>4. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years.</p>	

963.00



# 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 Castrol International LLC</u>	
MANUFACTURERS ADDRESS: <u>100 Reso Drive Elon, NC 27246</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 <input checked="" type="radio"/> 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)	
TITLE OF THE STANDARD OF CONSTRUCTION <u>ASME B31.1</u>	
<b>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</b> <div style="text-align: center; font-size: 2em; font-weight: bold;">REGO<sup>®</sup></div>	
<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> <u>See attached list</u>	

**DECLARATION:**  
 I, Chad Thomas (see note 3) employed by Engineered Castrol International 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: Chad M. Thomas  
 Declared before me at Elon, North Carolina  
 This 4th day of November AD 2016  
 Commissioner of Oaths or Notary Public: (sign) Brenda J. Bucci  
 (Affix Official seal to the right)

USE THIS NOTARY PUBLIC OFFICE FOR THE  
 ALAMANCE COUNTY  
 NORTH CAROLINA

My Commission Expires: April 17, 2021

This space for Regulatory Authority Use This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>0H19256.5</u> FID#: <u>1704</u>	<b>NUNAVUT</b> Boilers and Pressure Vessels Act REGISTERED CRN <u>0H19256.5N</u> Date <u>May 12, 2017</u> Signed <u>[Signature]</u> Director
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.	
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)

June 22, 2017

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

Service Request Type.: BPV-National BC  
Service Request No.: 2069318  
Your Reference No.:  
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD CHAD,

Please find enclosed the original response from BC, registered under the CRN No.: 0H19256.51.

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)



505 - 6th Street, Suite 200  
New Westminster, BC V3L 0E1

Toll Free: 1-866-566-SAFE  
Fax: (778) 396 - 2064  
www.safetyauthority.ca

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

**Date:** May 4, 2017  
**Account #:** 35231  
**Journal #:** 67938  
**Our File #:** 5615332

**Attn:** TANYA FRANCIS

**Re:** Application for Design Registration

The design, as detailed in your, TSSA SR# 2069318, for a Fitting is accepted for registration as follows:

**Registered To:** ENGINEERED CONTROLS INTERNATIONAL LLC  
**CRN:** 0H19256.51

**MAWP:** 600 psig

**Drawing #:** BK9412-SQ4

**Drawing Revision:** B

**Conditions Of Registration:**

Registration of Pipe Assembly, Part List w/Glove Valve per scope of registration sheets (att'd 2 pages).

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

**Reviewer's Notes:**

As required by CSA B51 4.2.1, this registration expires on March 24, 2027. 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@safetyauthority.ca  
Design Administration

**cc:**

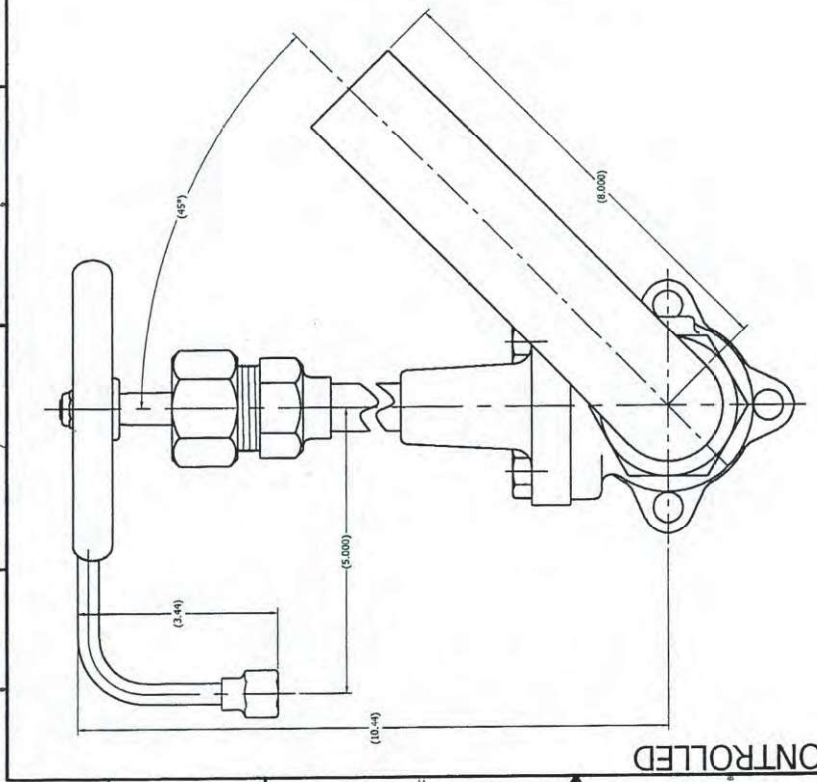
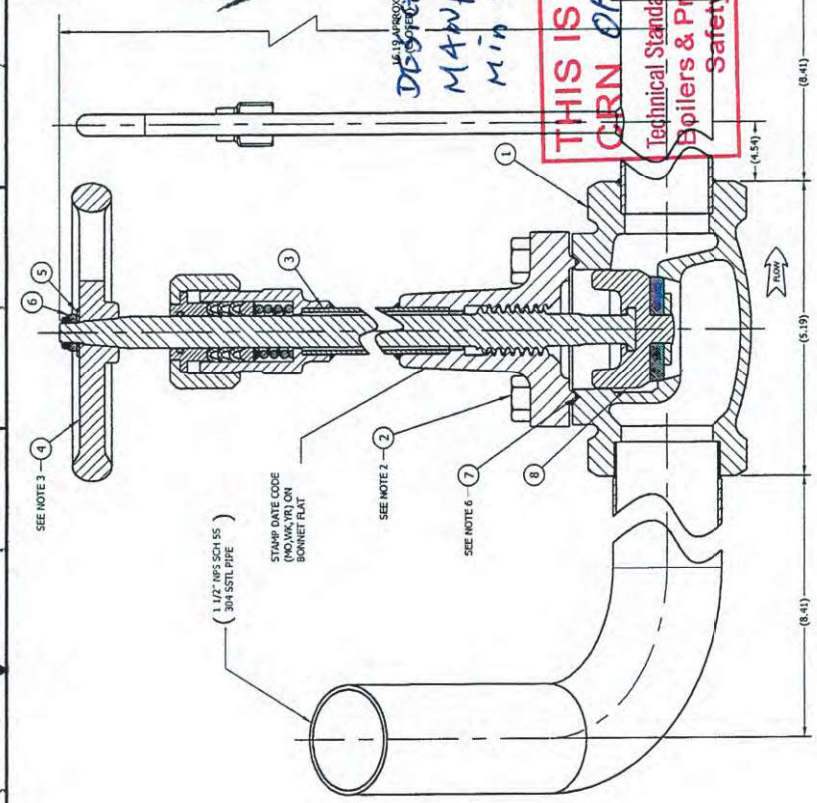


REVISION HISTORY		
REV	DATE	DESCRIPTION
A	01-05-08	ISSUED
B	06-09	REV



DESIGNED PER B31.1 code  
 MAMP 600psi at 165°F  
 Min Temp -320°F. 4834

**THIS IS PART OF**  
**CRN OH19256-5**  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program



ITEM	QTY	TITLE
10	1	PER INSTRUCTION SHEET (NOT SHOWN) SEE NOTE 7
9	1	TORQUE TAG (NOT SHOWN) SEE NOTE 5
8	1	SEAT DISC/SEAT
7	2	GASKET
6	1	LOCKWASHER
5	1	WASHER
4	1	HANDWHEEL - BLUE
3	1	UPPER ASSEMBLY - UNTESTED
2	1	BOUL
1	1	BODY ASSEMBLY

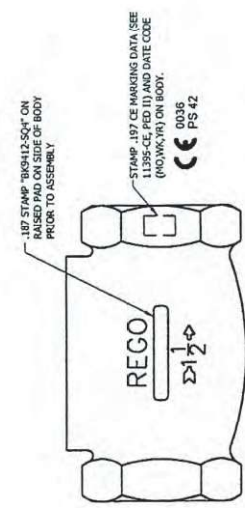
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3	1	UPPER ASSEMBLY - UNTESTED
2	1	BOUL
1	1	BODY ASSEMBLY

- NOTES:
- CLEAN BODY ASSEMBLY & GASKET PER B-11550-400 FOR OXYGEN SERVICE JUST PRIOR TO ASSEMBLY.
  - IN FALL LINE ASSEMBLY ONTO THE BODY AND APPLY 400-450 IN LBS OF TORQUE TO THE BONNET BOLTS USING AN X-PATTERN.
  - PRESS OR TAP HANDWHEEL ONTO STEM TO SHOULDER. INSTALL THE WASHER AND THEN THE LOCKWASHER ONTO THE STEM. TORQUE THE NUT TIGHT AGAINST THE WASHER.
  - IN THE TORQUE BOX OF THE TORQUE TAG, ATTACH THE TAG TO THE HANDWHEEL.
  - USE ONE GASKET FOR TESTING. PLACE EXTRA GASKET IN BAG WITH VALVE.
  - INCLUDE INSTRUCTION SHEET IN POLY BAG WITH VALVE.
  - UNLESS REQUESTED BY MARKETING TO SHIP PRIOR TO DRYING, AND INCLUDE OXYGEN CLEAN INFORMATION IN OR ON BAG.
  - REFERENCE CHART'S DRAWING B-14184322.



1/2" STAMP "B-14184322" ON RAISED PAD ON SIDE OF BODY PRIOR TO ASSEMBLY

STAMP .187" CE MARKING DATA (SEE B-11550-400) PRIOR TO DATE CODE  
 PG 42

ITEM	QTY	TITLE
10	1	PER INSTRUCTION SHEET (NOT SHOWN) SEE NOTE 7
9	1	TORQUE TAG (NOT SHOWN) SEE NOTE 5
8	1	SEAT DISC/SEAT
7	2	GASKET
6	1	LOCKWASHER
5	1	WASHER
4	1	HANDWHEEL - BLUE
3	1	UPPER ASSEMBLY - UNTESTED
2	1	BOUL
1	1	BODY ASSEMBLY

ITEM	QTY	TITLE
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2	1	BOUL
1	1	BODY ASSEMBLY

APPROVED/CONTROLLED

Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	BK9412-SQ4	Globe Valve	B-9409-1C	B-9412PU-1	Bronze Cast Alloy, UNS C92200, ASTM B61	600
			B-9412-22SP5	B-9412-22SP5	Stainless Steel Pipe, ASTM A312, TP304L	600
			B-9412-22SP4	B-9412-22SP4	Stainless Steel Pipe, ASTM A249, TP304L	600
			450073	450073	Stainless Steel Pipe, ASTM A249, TP304L	600



THIS IS PART OF  
 CRN OH 19256-5  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program

BCSAJ #67938



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 16, 2017

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

Service Request Type.: BPV-National CSA  
Service Request No.: 2069320  
Your Reference No.:  
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD CHAD,

Please find enclosed the original response from QC, SK registered under the CRN No.:  
CSA-0H19256.56.

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,

Joanna Karpinski  
Tel: 416-734-3377  
Fax: 416-231-6183  
Email: [jkarpinski@tssa.org](mailto:jkarpinski@tssa.org)





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 Elon in the State of North Carolina

the 4<sup>th</sup> day of November AD 20 16

Commissioner for Oaths:

Brenda J. Bucci

(Printed name)

Brenda J. Bucci

(Signature)

Chad M. Thomas

(Signature of Declarer)

My Commission Expires: April 17, 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: CSA-0H19256.56

Registered by: A. BANWATT

Dated: AUGUST 24, 2017

NOTE: This registration expires on: MARCH 24, 2027

REGISTERED



CRN: CSA-0H19256.56

Registration Process administered by  
CSA Group per CSA B51



REGISTERED  CSA Group

**CRC** CSA-OH19256-56

Registration Process administered by  
CSA Group per CSA B51

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

Signed: Aszwalt

Date: August 24, 2017

 **CERTIFIED  
TRUE COPY**

Date: 27 Nov 17

Signature: C. Garbacz

Cecylia Garbacz, a Commissioner, etc.,  
City of Toronto, for the Technical  
Standards & Safety Authority.  
Expires June 17, 2017.





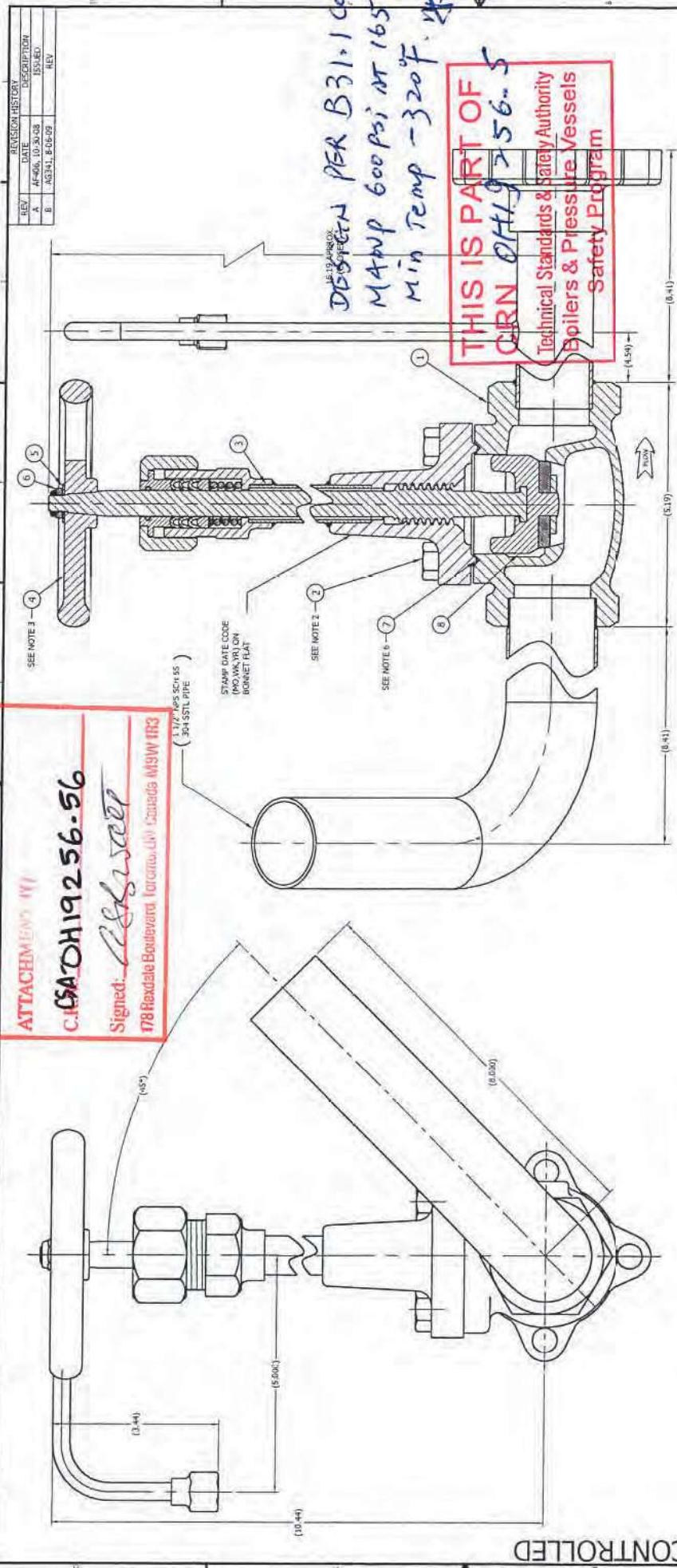
102

**ATTACHMENT (A)**

**CANADA W51W TR3**

Signed: *[Signature]*

178 Rexdale Boulevard, Toronto, ON M9W 1R3



DESIGN PER B31.1 CODE  
 MAXP 600 PSI AT 165°F  
 MIN TEMP -320°F. 10/31/14

**THIS IS PART OF**  
**CRN 0119256-5**  
 Technical Standards & Safety Authority  
 Spillers & Pressure Vessels  
 Safety Program

APPROVED/CONTROLLED

187 STAMP MARKING DATA (SEE B31.1 CODE, PED 11) AND DATE CODE (MAXIMUM) ON BODY.

187 STAMP MARKING DATA (SEE B31.1 CODE, PED 11) AND DATE CODE (MAXIMUM) ON BODY.

PS 42

NOTES:

- CLEAN BODY ASSEMBLY & GASKET PER B-11559-400 FOR OXYGEN SERVICE. JUST PRIOR TO ASSEMBLY.
- INSTALL UPPER ASSEMBLY ONTO THE BODY AND APPLY 400-450 IN-LBS OF TORQUE TO THE BODY BOLTS USING A TORQUE WRENCH.
- PRESS OR TAP HANDWHEEL ONTO STEM TO SHOULDER. INSTALL THE WASHER AND THEN THE LOCKWASHER ONTO THE STEM. TORQUE THE NUT TIGHT AGAINST THE WASHER.
- TEST PER B-9907-100.
- INK STAMP "425" IN THE TORQUE BOX OF THE TORQUE TAG. ATTACH THE TAG TO THE WASHER.
- USE ONE GASKET FOR TESTING. PLACE EXTRA GASKET IN BAG WITH VALVE.
- SEAL PRODUCT IN POLYBAG, AFTER IT HAS DRIED FOR NO LESS THAN 24 HOURS, UNLESS REQUESTED BY MARKETING TO SHIP PRIOR TO DRYING, AND INCLUDE OXYGEN CLEAN INFORMATION IN OR ON BAG.
- REFERENCE CHART'S DRAWING B-14164322.

RECO

102

187 STAMP MARKING DATA (SEE B31.1 CODE, PED 11) AND DATE CODE (MAXIMUM) ON BODY.

PS 42

RECO CRYO-FLOW PRODUCTS

VALVE, GLOBE

40 1/2" NPT X 1/2" NPT X 1/2" NPT

REV	DATE	DESCRIPTION	ISSUED	REV
A	AF-006, 10-20-03			
B	AG-041, 8-06-09			

ITEM	QTY	TITLE	UNIT NUMBER
1	1	BODY ASSEMBLY	B-14164322
2	1	LOCKWASHER	B-14164322
3	1	WASHER	B-14164322
4	1	LOCKWASHER	B-14164322
5	1	WASHER	B-14164322
6	1	LOCKWASHER	B-14164322
7	1	WASHER	B-14164322
8	1	LOCKWASHER	B-14164322
9	1	WASHER	B-14164322
10	1	LOCKWASHER	B-14164322
11	1	WASHER	B-14164322
12	1	LOCKWASHER	B-14164322
13	1	WASHER	B-14164322
14	1	LOCKWASHER	B-14164322
15	1	WASHER	B-14164322
16	1	LOCKWASHER	B-14164322
17	1	WASHER	B-14164322
18	1	LOCKWASHER	B-14164322
19	1	WASHER	B-14164322
20	1	LOCKWASHER	B-14164322
21	1	WASHER	B-14164322
22	1	LOCKWASHER	B-14164322
23	1	WASHER	B-14164322
24	1	LOCKWASHER	B-14164322
25	1	WASHER	B-14164322
26	1	LOCKWASHER	B-14164322
27	1	WASHER	B-14164322
28	1	LOCKWASHER	B-14164322
29	1	WASHER	B-14164322
30	1	LOCKWASHER	B-14164322
31	1	WASHER	B-14164322
32	1	LOCKWASHER	B-14164322
33	1	WASHER	B-14164322
34	1	LOCKWASHER	B-14164322
35	1	WASHER	B-14164322
36	1	LOCKWASHER	B-14164322
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40	1	LOCKWASHER	B-14164322
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100	1	LOCKWASHER	B-14164322

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			B-9412-22SP4	B-9412-22SP4	Stainless Steel Pipe, ASTM A249, TP304L	600
			450073	450073	Stainless Steel Pipe, ASTM A249, TP304L	600


 ATTACHMENT (P)  
 CRN 0419256-56  
 Signed: *RGH*  
 178 Rexdale Boulevard Toronto, ON Canada M9W 1R3

THIS IS PART OF  
 CRN 0419256-5  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program





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 15, 2017

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

Service Request Type.: BPV-National MB  
Service Request No.: 2069322  
Your Reference No.:  
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD CHAD,

Please find enclosed the original response from MB, registered under the CRN No.: 0H19256.54.

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,

Joanna Karpinski

Tel: 416-734-3377  
Fax: 416-231-6183  
Email: [jkarpinski@tssa.org](mailto:jkarpinski@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)

July 21, 2017

TSSA  
345 Carlingview Drive  
Toronto, ON  
M9W 6N9

Attn: Tanya Francis

## REGISTRATION OF VALVES AND FITTINGS

**Manufacturer:** Engineered Controls Intl 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
BK 9412-SQ4 PIPE ASSEMBLY	0H19256.54	37855

**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 **March 24, 2027**.*

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

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

Yours truly,

**Rabie Harb, E.I.T.**  
Design Surveyor  
Office of the Fire Commissioner  
Inspection and Technical Services Manitoba  
508 - 401 York Avenue  
Winnipeg, Manitoba, R3C 0P8  
Phone: 204-945-3373  
Email: [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 Elon in the State of North Carolina  
the 4<sup>th</sup> day of November AD 20 16.

Commissioner for Oaths:

Brenda J. Bucci

(Printed name)

Brenda J. Bucci

(Signature)

Chad M. Thomas

(Signature of Declarer)

My Commission Expires: April 17, 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: ΦH19256.54

Registered by: Rubie Huns

Dated: 2017/07/21

NOTE: This registration expires on: March 24, 2027





Cecylia Garbacz, a Commissioner, etc.,  
City of Toronto, for the Technical  
Standards & Safety Authority  
Expires June 17, 2017.



