

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

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.:

0H19256.5

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. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Ruiming You, P.Eng.

Mechanical Engineer, BPV

Tel.: 416-734-3428 Fax: 416-231-6183 Email: 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



STATUTORY DEC	
Registration of F	ittings
I, CHAD THOMAS, VP GLOBAL ENGINEERING	
(Name and Position, e.g. President, Plant Manag	er, Chief Engineer)
of ENGINEERED CONTROLS INTERNATIONAL. LLC (Name of Manufacturer)	
400 PEOO PRIVE ELON NO. 07044	000 440 7707
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 and Pressure Vessels Regulation, comply with all of the requirements ASME B31.1	to the Technical Standards and Safety Act , Boilers of
(Title of recognized North American Start which specifies the dimensions, materials of construction, pressure/temperature.)	
or are not covered by the provisions of a recognized North American statement of as supported by the attached data pressure/temperature ratings and the basis for such ratings, the marking of	which identifies the dimensions, material of construction,
I further declare that the manufacture of these fittings is controlled by a quality sy which has been verified by the following authority, UNDERWR	TERS LABORATORY INC
The items covered by this declaration, for which I seek registration, are category "H" this application, the following information and/or test data are attached as follows: SEE ATTACHED LIST	type fittings. In support of
(drawings, calculations, test reports,	etc.)
Declared before me at in the	State of North Carolina
the day of November AD 20 16.	BRENDA J. BUCCI NOTARY PUBLIC
Commissioner for Oaths: Brende J. Bucci	ALAMANCE COUNTY NORTH CAROLINA
Brenda Duci Branda Duci Branda My Commission Expires April	My M. Jus 117, 202 (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	Y Tockmical Bollum and Standards Pressure Vessels
OH 19 256.5	
Registered by: RUIMING YOU	0H13256.5
Dated: Mar. > 4, 2017	Mar 24, 2617
NOTE: This registration expires on: Mar. 24, 2027	The state of the s

PV 09553 (06/16) NOTE: SEE PART LIST & ASSY DRAWING BK9412-SQ4
FOR REGISTRATION SCOPE.

	Cuctom		Commence of the commence of th			
Category	Number	Description	Drawing Number Body Number	Body Number	Body Material	Service
I	NO3 C11019	1-11-10				Pressure
-	DN3412-304	Globe Valve	B-9409-1C	B-9412PU-1	Bronze Cast Allov, UNS C92200 ASTM R61	003
			10000		TOO INITED COSTED ON TOTAL	000
			B-9412-225P5	B-9412-22SP5	Stainless Steel Pine ASTM A312 TD3041	000
					1+00 11 77TK WATER 11 304	000
			B-9412-225P4	B-9412-22SP4	Stainless Steel Pine ASTM A249 TD2041	000
					11 304	000
			450073	450073	Stainless Steel Pine ASTM A249 TD2041	003
					1+00 11 (C+3) (S11) 1213 11 304F	

THIS IS PART OF CRN OH (9 256, Sechnical 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,

Janet Townsend Program Manager CSA Group

178 Rexdale Blvd. Toronto, ON, M9W 1R3



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 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** Elon in the State of North Carolina Declared before me at **Commissioner for Oaths:** enda J. Bucci Commission Exers : April 17, 2021 (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 **I REGISTERED** CRN: CSA - OH 19256.56 CSA- OH19256,56 CRN: A. BANWATT Registered by: Registration Process administered by AUGUST 24,2017 CSA Group per CSA B51 Dated: NOTE: This registration expires on: <u>MARCH 24, 2027</u>

REGISTERED



CROS4-0 H19256-56

Registration Process administered by CSA Group per CSA B51

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

Signed

Date:

asswalt

lugrist 24, 2017



Cecylia Garbacz, 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



THIS IS PART OF CRN OH 19256.5
Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program

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



March 2017

<u>CRN – Canadian Registration Numbers - Saskatchewan</u>

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

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. 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

9410 - 20 Ave N.W. Edmonton, Alberta, Canada T6N 0A4 Tel: (780) 437-9100 / Fax: (780) 437-7787

March 08, 2018

Attention: Tanya Francis

Email:tfrancis@tssa.org

TECHNICAL STANDARDS & SAFETY AUTHORITY

345 CARLINGVIEW DRIVE TORONTO, ON M9W 6N9

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.

9410 - 20 Ave N.W. Edmonton, Alberta, Canada T6N 0A4 Tel: (780) 437-9100 / Fax: (780) 437-7787

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.

Sincerely, Neith Nudol

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

Page 2 of 2





STATUTORY DECLARATION Registration of Fittings

1.	Chad Thomas	V.P of	Engineering		In this space, show fa manufacturer's logo of as it will appear on the	or trademark
of	(name of applicant) Engineered Controls Inte		tle) (must be in a position	of authority)	DEG	n ®
loca	ted at 100 Rego Drive, E				MEGIC	
	olemnly declare that the fittings	(plant address) s listed hereunder	, which are subject t	o the Safety Co	odes Act	
	comply with the requiremen		zed North American Stan	The state of the s	ecifies the dimension	ons,
	materials of construction, p	ressure/temperat	ure ratings and iden	tification markir	ng of the fittings, or	
Y	are not covered by the prov	isions of a recogn	ized North Americar	n standard and	are therefore man	ufactured
	to comply withA	SME B31		as s	supported by the at	
	data which identifies the din				ature ratings and the	he basis
	for such ratings, and the ma					
fittin Ca	fied by the following authority, _ gs to the stated standard. The tegory "H" upport of this application, the fo	fittings covered b	by this declaration, for	or which I seek		e of these
DEC	CLARED before me at E16	M int	he County	of Ala	amance, NC	
this (pri	1St day of	City) Twl (Month) O H Notary Public)	, 2017 (Year)	ALAM	SA E. ELLIOTT FARY PUBLIC ANCE COUNTY FH CAROLINA	my commission expires 8/31/2021
(sigi	OMMINING 6 COD	irta		(signature of	Morning applicant)	
	ABSA Office Use Only:	See Acceptance and/or condi	Letter for the com- tions of registration	ments ı"		
Star	he best of my knowledge and I ndard B51, Clause 4.2, and is a	pelief, the applicat accepted for regist	tration in Category	rements of the S	Safety Codes Act a	and CSA
Reg	istration Number: U II I	0 0 0040	ueo	(Signature of the	e Administrator/SCO)	
Date	Registered: MAR	0 8 2018	Expiry Da	ite: Mai	08 2029	8

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

ystem	Description	Drawing Number Body Number	Body Number	Body Material	Service Pressure
3K9412-SQ4	Globe Valve	B-9409-1C	B-9412PU-1	Bronze Cast Alloy, UNS C92200, ASTM B61	009
		B-9412-22SP5	B-9412-22SP5	Stainless Steel Pipe, ASTM A312, TP304L	009
		B-9412-22SP4	B-9412-22SP4	Stainless Steel Pipe, ASTM A249, TP304L	009
		450073	450073	Stainless Steel Pipe, ASTM A249, TP304L	009

Service Reguest # 1987212

SAFETY CODES ACT - PROVINCE OF ALBERTA

REGISTRATION OF FITTINGS

REGISTRATION NO. OH 18 3 8 6 . 2

DWG, NO. O'CAT. NO. BK9412 - SQ4 Rev B

TYPE OF FITTINGS 1.5" Clobe Valve As sembly

WAR 0 8 2018 INITIALS WORTH PUDDLE, PENG WELL

Date

Date

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





CERTIFICATE



This is to certify that

OH18386.2

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

ARAB ACCREDITED MANAGEMENT SYSTEMS CERTIFICATION BODY

DOS 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

OH18386.2

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

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. 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

,502-300-3320

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UNAVUT	NOVA SCOTIA YUKON	PRINCE EDWARD ISLAND NORTHWEST TERRITORIES	NEWFOUNDLAND AND LABRADOR
MANUFACTURERS NAME	EMCIONUNEN Can	stock Andernational.	110
MANUFACTURERS ADDI	TESS: O	ine Elm Nr- 17240	
LANT LOCATIONS:	70 - 100 Kean 1791	111 E COO, NI- 17244	
CATEGORY OF	FITTINGS TO BE REGISTERE	D. CIRCLE ONE CATEGORY ONLY	TITLE OF THE TAXABLE OF THE PROPERTY OF THE
		s, unions, pipe caps, or reducars	
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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 medimum interval of five (5) years.

COMMUNITIES, LAND & ENVIRONMENT

C.R.N. 0419256.

INSPECTION SERVICES SECTION
BOHLER ERESSURE VESSEL BRANCH

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSW	CK
AN IMAVIET	

NOVA SCOTIA YUKON PRINCE EDWARD ISLAND NORTHWEST TERRITORIES NEWFOUNDLAND AND LABRADOR

MANUFACTURERS ADDRESS: () D	enational. L	<i>c</i> .
PLANT LOCATIONS: PLANT	2 Nr- 27244	
CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE C	ATEGORY ONLY	TITLE OF THE BYANDARD OF CONSTRUCTION
Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps Flanges: all flanges Valves: all line valves Expansion joints, flaxible connections, and hose assemblies: all types Strainers, filters, separators, and steam trape Messuring devices, including pressure gauges, level gauges, sight glasses.	e, or reducers	ARME B31-1
pressure trensmitters Certified capacity-rated pressure relief devices acceptable as primary over bollers, pressure vessels, piping and fusible plugs Pressure retaining components that do not fall into one of the above catego Nuclear components: Class 1 Class 2 Class 3 (Meeting AECB of	pressure protection on	
REGO®	PEAR ON THE PRODUCT	TYPE OF CONSTRUCTION PORCED WELDED WROUGHT CAST ET OTHER DESCRIBE OTHER
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UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS NEW BRUNSWICK **NOVA SCOTIA** PRINCE EDWARD ISLAND **NEWFOUNDLAND AND LABRADOR** NUNAVUT YUKON NORTHWEST TERRITORIES MANUFACTURERS NAME: Rein PLANT LOCATIONS: CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY TITLE OF THE STANDARD OF CONSTRUCTION A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges ABME B311 C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs H Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 Class 2 Class 3 (Meeting AECB or ASME requirements) SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT TYPE OF CONSTRUCTION FORGED | WELDED | WROUGHT | CAST | OTHER | DESCRIBE OTHER: LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: See attached list. DECLARATION: (see note 3) employed by Engineered Gantrol 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 150 90001/06 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: BRENDA J. BUCCI H I S NOTARY PUBLIC Declared before me at USET HE day of No NORTH CAROLINAL Commissioner of Oaths or Notary Public: (sign) Comm: ss. in Expires: Apr. 1 17,2021 (Affix Official seaf-to the right) This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the day OH19256.5 OF PUBLIC SAFETY 1704 BOLLER & PRESSURE VESSEL ACT EGISTRATION ONLY 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

T FITTINGS COMPONENTS

CRN:

FID#:

at a maximum interval of five (5) years.

NEW BRUNSWICK NUNAVUT	NOVA SCOTIA YUKON	PRINCE EDWARD ISLAND NORTHWEST TERRITORIES	NEWFOUNDLAND AND LABRADOR
MANUFACTURERS NAME	tome destred I'm	atack Antennational	
MANUFACTURERS ADDF	RESS:	nice floo NE 272416	
PLANT LOCATIONS:	The state of the s	The state of the s	
CATEGORY OF	FITTINGS TO BE REGISTER	ED, CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTION
B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible E Strainers, filters, separat F Measuring devices, inclu pressure transmitters G Certified capacity-rated pobliers, pressure vessels	connections, and hose assem ors, and steam traps ding pressure gauges, level ga	auges, sight glasses, levels, or	ASME 8311
		(Meeting AECS or ASME requirements)	
		OGO AS IT WILL APPEAR ON THE PRODUC	T TYPE OF CONSTRUCTION
REG	O®		FORGED WELDED WROUGHT CAST OTHER DESCRIBE OTHER:
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Notes:

1. All fittings shall be registered in the name of the Manufacturer.

2. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation.

3. The declaration shall be made by the person having full authority and responsibility for the quality of the end product.

4. Quality control programs shall be resubmitted for validation

at a maximum interval of five (5) years.

Registered OH/7

Engineering and Inspection Services

Registered by . /

UNDER THE AUTHORIST PUBLIC SAFETY AND AND THE BOALER, PRESSURE VESSEL AND

CONTRESSED GAS DEGULANCES

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS NEW BRUNSWICK **NOVA SCOTIA** PRINCE EDWARD ISLAND NEWFOUNDLAND AND LABRADOR NUNAVUT NORTHWEST TERRITORIES YUKON MANUFACTURERS NAME: MANUFACTURERS ADDRESS PLANT LOCATIONS: CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY TITLE OF THE STANDARD OF CONSTRUCTION A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges ABME B311 C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Messuring 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 bollers, pressure vessels, piping and fusible plugs Pressure retaining components that do not fall into one of the above categories N Nuclear components: Class 1 Class 2 Class 3 Class 4 Class 3 Class 4 Class 5 SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT TYPE OF CONSTRUCTION FORGED | WELDED | WROUGHT | CAST | OTHER | DESCRIBE OTHER: LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: See attached list. DECLARATION: Thomas Less now 2) employed by Engineered Bankol 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 150 90001 /UE 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: / BRENDA J. BUCCI H I S NOTARY PUBLIC F F ALAMANCE COUNTRY R NORTH CAROCINAL Elon North Carolina Declared before me at USE HF This 4th day of No ven Commissioner of Oaths or Notary Public: (sign) My Comm: 55:30 Expires: April 17,2021 (Affix Official sear to the right) This space for Regulatory Authority use

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

OH19256.5 CRN:

1704 FID#:

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

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WANUFACTURERS ADDR	ESS: IND Res De		(,
LANT LOCATIONS: 5	Ton.		The second second
		D. CIRCLE ONE CATEGORY ONLY	TITLE OF THE STANDARD OF CONSTRUCTIO
	spullings, toes, elbows, Ys, plugs	s, unions, pipe caps, or roducers	
Flanges: all Banges			ASME 831:1
Valves: all line valves Expansion joints, flexible	connections, and hose assemb	bles: all types	
Strainers, filters, separate	ors, and steam traps		
pressure transmitters	ding pressure gauges, lovel gau		
Contified capacity-rated p		le as primary over pressure protection on	
Pressure retaining compo	i, piping and funible plugs onents that do not fall into one o	of the above categories	
Nuclear components: Cit	989 1 🔲 Class 2 🗆 Class 3 🗅	(Meeting AECS or ASME requirements)	
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T OF SUPPORTING DO	CUMENTATION AND IDENTIF	ICATION OF THE ACTUAL ITEMS TO BE	E REGISTERED:
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To:ACI Central ;8678730117 # 23/ 28

06-24-17;21:42 ;From:

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NOVA SCOTIA

NEW BRUNSWICK

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PLANT LOCATIONS: Elen	2		
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Pressure retaining component			
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		Territona	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

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. 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



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 CRN: 0H19256.51

INTERNATIONAL LLC

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:

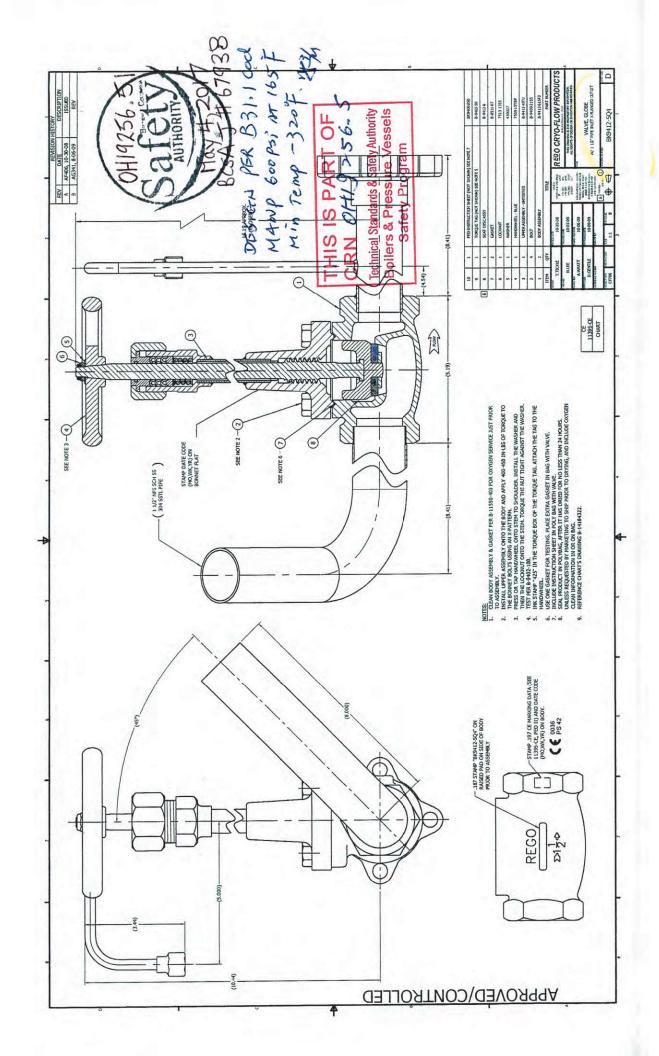
As required by CSA B51 4.2.1, this registration expires on March 24, 2027. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program 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:



lumber	Description	Drawing Number Body Number	Body Number	Body Material	Service Pressure
3K9412-SQ4	Globe Valve	B-9409-1C	B-9412PU-1	Bronze Cast Alloy, UNS C92200, ASTM B61	900
		B-9412-22SP5	B-9412-22SP5	Stainless Steel Pipe, ASTM A312, TP304L	009
		B-9412-225P4	B-9412-22SP4	Stainless Steel Pipe, ASTM A249, TP304L	009
		450073	450073	Stainless Steel Pipe, ASTM A249, TP304L	009





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

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. 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



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



STATUTORY DECLARATION Registration of Fittings L 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 336-449-7707 (Plant Address) (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 Declared before me at Elon in the State Commissioner for Oaths: (Printed name) Commission Expres: April 17, 204 (Signature of Declarer) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the requirements of the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category CRN: CSA-OH19256.56 CSA- OH19256,56 CRN: A. BANWATT Registered by: Registration Process administered by CSA Group per CSA B51 AUGUST 24,2017 Dated: NOTE: This registration expires on: MARCH 24, 2027

REGISTERED



CROS4-0 H 19 256-56

Registration Process administered by CSA Group per CSA B51

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

Signed

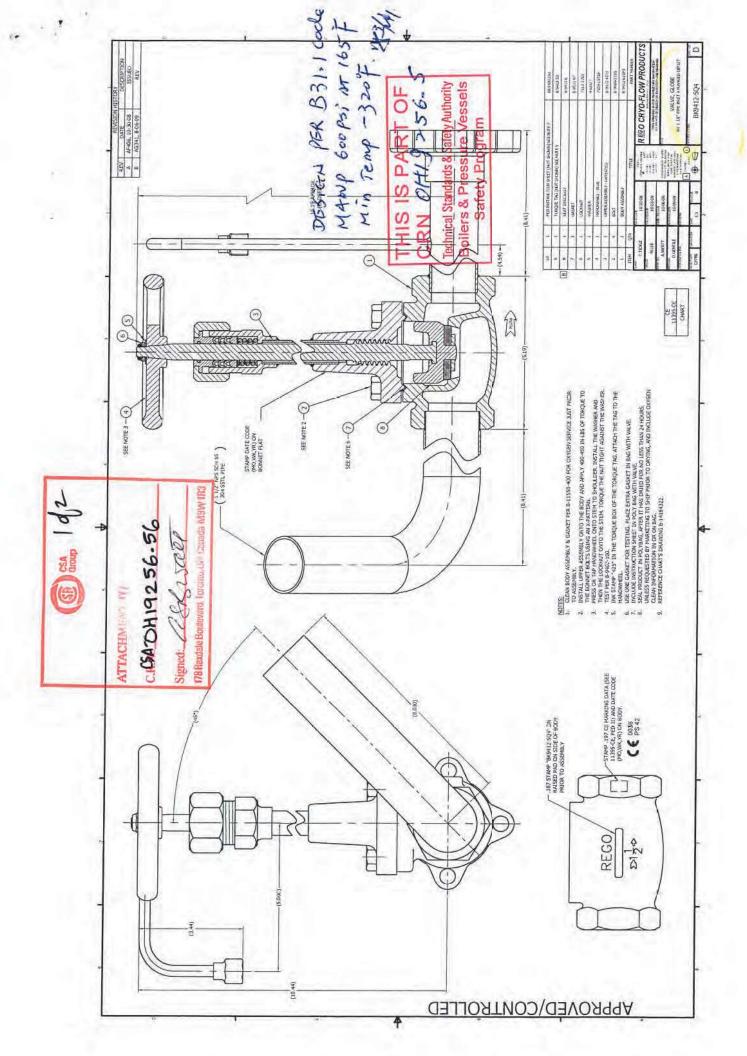
asswalt

Date

Sugust 24, 2017



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



tegory	System	Description	Drawing Number Body Number	Body Number	Body Material	Service
I	BK9412-SQ4	Globe Valve	B-9409-1C	B-9412PU-1	Bronze Cast Alloy, UNS C92200, ASTM B61	009
			B-9412-22SP5	B-9412-22SP5	Stainless Steel Pipe, ASTM A312, TP304L	009
			B-9412-22SP4	B-9412-22SP4	Stainless Steel Pipe, ASTM A249, TP304L	009
			450073	450073	Stainless Steel Pipe, ASTM A249, TP3041	009



THIS IS PART OF CRN OH (9 256. S 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

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. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Joanna Karpinski

Tel: 416-734-3377 Fax: 416-231-6183

Email: jkarpinski@tssa.org



Inspection and Technical Services Manitoba 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

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



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



STATUTORY DECLARATION Registration of Fittings L 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 336-449-7707 (Plant Address) (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 Declared before me at ____ Elon ____ in the ___ State Commissioner for Oaths: Commission Expires : April 17, 2021 (Signature of Declarer) FOR OFFICE USE ONLY To the best of my knowledge and belief, the application meets the requirements of the Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category CRN: Registered by: Dated: NOTE: This registration expires on:



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

