



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: ASBwett

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



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ATTACHMENT TO

CSA DH19256-56

Signed: *[Signature]*

178 Raxdale Boulevard, Toronto, ON Canada M9W 1R3

REVISION HISTORY		
REV	DATE	DESCRIPTION
A	AF-006, 10-30-09	ISSUED
B	AG341, 8-06-09	REV

SEE NOTE 3



1 1/2" NPS SCH 35  
304 SS TL PIPE

STAMP DATE CODE  
(MO, WK, YR) ON  
BONNET PLAT

SEE NOTE 2

SEE NOTE 6

DESIGN PER B31.1 Code  
MAWP 600 PSI AT 165°F  
Min Temp -320°F

THIS IS PART OF  
CRN DH19256-5

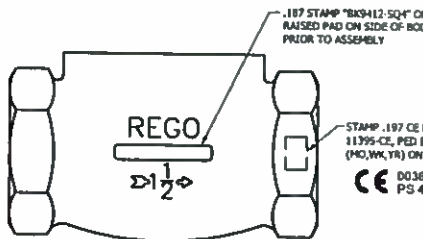
Technical Standards & Safety Authority  
Boilers & Pressure Vessels  
Safety Program

(8.000)

(8.41)

(5.19)

(8.41)



.187 STAMP "BK9412-SQ4" ON  
RAISED PAD ON SIDE OF BODY  
PRIOR TO ASSEMBLY

STAMP .187 CE MARKING DATA (SEE  
11395-CE, PED (I) AND DATE CODE  
(MO, WK, YR) ON BODY.

0036  
PS 42

NOTES:

1. CLEAN BODY ASSEMBLY & GASKET PER B-11550-400 FOR OXYGEN SERVICE JUST PRIOR TO ASSEMBLY.
2. INSTALL UPPER ASSEMBLY ONTO THE BODY AND APPLY 400-450 IN LBS OF TORQUE TO THE BONNET BOLTS USING AN X-PATTERN.
3. PRESS OR TAP HANDWHEEL ONTO STEM TO SHOULDER, INSTALL THE WASHER AND THEN THE LOCKWHEEL ONTO THE STEM. TORQUE THE NUT TIGHT AGAINST THE WASHER.
4. TEST PER B-9402-100.
5. INK STAMP "425" IN THE TORQUE BOX OF THE TORQUE TAG. ATTACH THE TAG TO THE HANDWHEEL.
6. USE ONE GASKET FOR TESTING. PLACE EXTRA GASKET IN BAG WITH VALVE.
7. INCLUDE INSTRUCTION SHEET IN POLY BAG WITH VALVE.
8. 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.
9. REFERENCE CHART'S DRAWING B-14184322.

CE  
11395-CE  
CHART

ITEM	QTY	TITLE	PART NUMBER
1	1	REGO CRYO-FLOW PRODUCTS	BK9412-SQ4
2	1	VALVE, GLOBE	1/2" NPS BULLET & FLANGED CURVE
3	1	1/2" NPS BULLET & FLANGED CURVE	
4	1	1/2" NPS BULLET & FLANGED CURVE	
5	1	1/2" NPS BULLET & FLANGED CURVE	
6	1	1/2" NPS BULLET & FLANGED CURVE	
7	1	1/2" NPS BULLET & FLANGED CURVE	
8	1	1/2" NPS BULLET & FLANGED CURVE	
9	1	1/2" NPS BULLET & FLANGED CURVE	
10	1	1/2" NPS BULLET & FLANGED CURVE	
11	1	1/2" NPS BULLET & FLANGED CURVE	
12	1	1/2" NPS BULLET & FLANGED CURVE	
13	1	1/2" NPS BULLET & FLANGED CURVE	
14	1	1/2" NPS BULLET & FLANGED CURVE	
15	1	1/2" NPS BULLET & FLANGED CURVE	
16	1	1/2" NPS BULLET & FLANGED CURVE	
17	1	1/2" NPS BULLET & FLANGED CURVE	
18	1	1/2" NPS BULLET & FLANGED CURVE	
19	1	1/2" NPS BULLET & FLANGED CURVE	
20	1	1/2" NPS BULLET & FLANGED CURVE	

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-0H19256-56

Signed: [Signature]

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

THIS IS PART OF  
 CRN 0H19256-5  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program



# CERTIFICATE



This is to certify that

## Engineered Controls International, LLC

100 Rego Drive  
Elon, NC 27244  
United States of America

with the organizational units/sites as listed in the annex

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

### Scope:

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

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

## ISO 9001 : 2008

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



**DQS Inc.**

Ganesh Rao  
Managing Director





**Annex to Certificate**  
**Registration No. 10001523 QM08**

**Engineered Controls International, LLC**

100 Rego Drive  
Elon, NC 27244  
United States of America

**Location**

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

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



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.