



To:	TSSA	From:	Janet Townsend
Company:	Engineered Controls International LLC	Phone:	416-747-4291
Pages:	9	Location:	Toronto
Our File:	ANR-4623	Date:	September 28, 2017

Your File: 2105230

**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 Quebec 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-0H19457.56.

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

Canada

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



Technical Standards and Safety Authority  
345 Carlingview Drive  
Toronto, Ontario M9W 6N8  
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, CMA Engineer)

of **ENGINEERED CONTROLS INTERNATIONAL, LLC**

(Name of Manufacturer)

Located at **100 REGO DRIVE, ELON, NC 27244**

(Plant Address)

**336-448-7707**

(Telephone No.)

(Fax No.)

☒ I do solemnly declare that the fittings listed hereunder, which are subject to the Technical Standards and Safety Act, Boilers and Pressure Vessel Regulation, comply with all of the requirements of **ASME B31.3**

(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 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 **ISO 90001**

which has been verified by the following authority, **UNDERWRITERS LABORATORY INC**

the application, the following information and/or test data are attached as follows: **type fittings in support of SEE ATTACHED LIST**

(Drawings, calculations, test reports, etc.)

Declared before me at **Engineered Controls Int'l, LLC** in the **County** or **Alamance, NC**  
the **18<sup>th</sup>** day of **April** AD **2017**

Commissioner for Oath:

**MARISA E. ELLIOTT**

(Printed name)

**MARISA E. ELLIOTT**

(Signature)

**Chad 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:

**CSA-OH19457.56**

Registered by:

**A. BANWART**

Dated:

**SEPTEMBER 09, 2017**

NOTE: This registration expires on: **JUNE 19, 2027**



REGISTERED

CRN: **CSA-OH19457.56**

Registration Process administered by  
CSA Group per CSA B51

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

my commission expires 8/31/2021



CSA  
Group

See the attachment for the scope of the registration



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

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

June 19, 2017

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

Service Request Type: BPV-Fitting Registration  
Service Request No.: 2070492  
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.:** 0H19457.5  
**Main Design No.:** MVE54 Assembly, Part List  
**Expiry Date:** 19-Jun-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 & B31.3 code, Maximum allowable working pressure 600 psi at 165 °F. The assembly shall be pressure tested per paragraph 137 in ASME B31.1 Code.*

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,

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



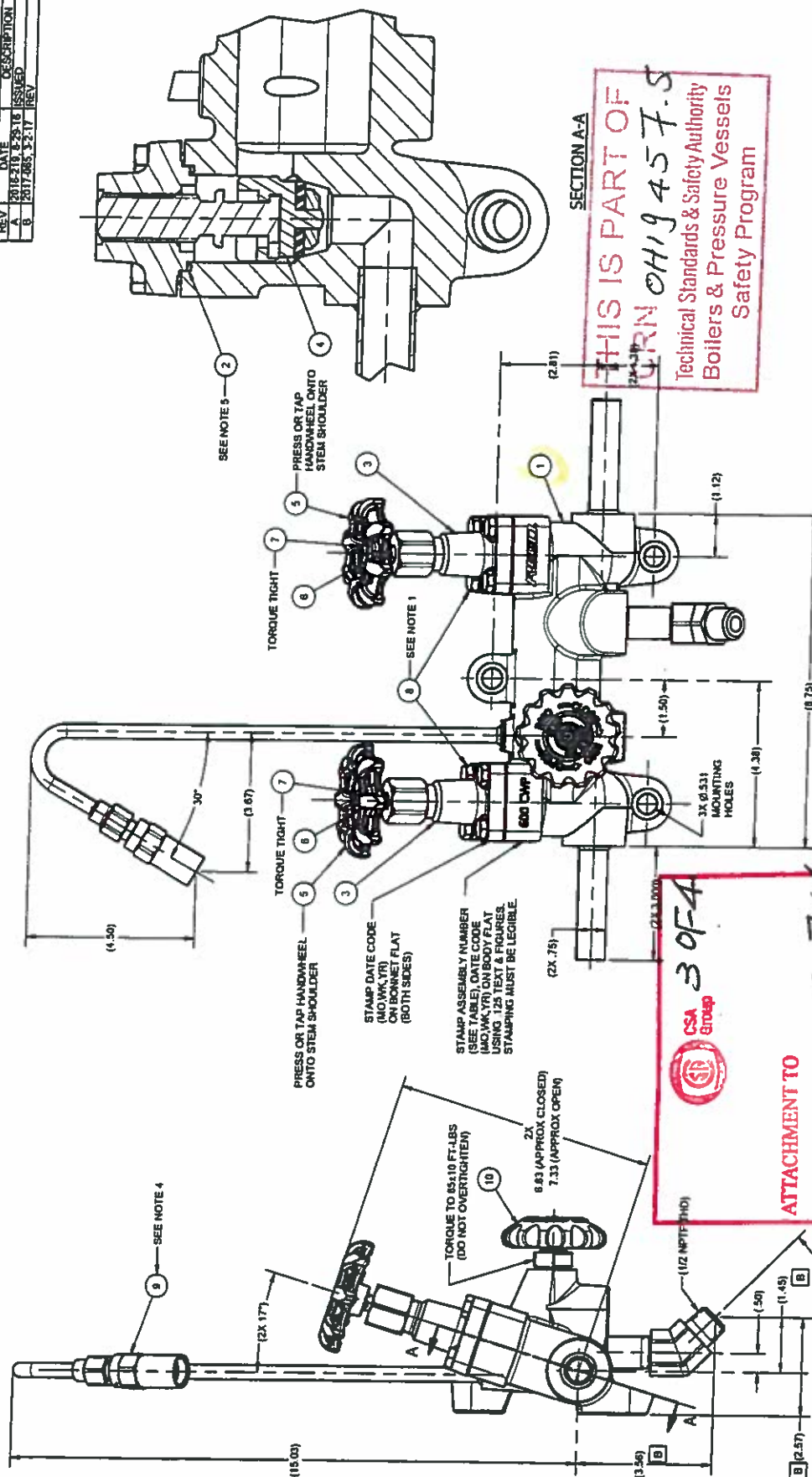
Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	MVE54	Fill Manifold	MVE54-1C	MVE54-1A	Bronze Cast Alloy, UNS C92200, ASTM B61	600
			MVE50-22D	MVE50-22D	Stainless Steel Tube, UNS30403, ASTM A269, TP304L	600
			MVE54-22C	MVE54-22C	Stainless Steel Tube, UNS30403, ASTM A249, TP304L	600
			MVE54-4	MVE54-4	Stainless Steel Pipe, UNS30403, ASTM A312, TP304L	600
			MVE54-3	MVE54-3	Brass Forging, UNS C37700, ASTM B124	600

 2 of 4  
 ATTACHMENT TO  
 C.R.N. CSA-0H19457.56  
 Signed: [Signature]  
 178 Rexdale Boulevard, Toronto, ON Canada M3W 1R3

THIS IS PART OF  
 CRN 0H19457.5  
 Technical Standards & Safety Authority  
 Boilers & Pressure Vessels  
 Safety Program

MANP 600 psi AT 165°F

REVISION HISTORY		
REV	DATE	DESCRIPTION
A	2018-219, 8-29-16	ISSUED
B	2017-085, 12-17	REV



**SECTION A-A**

THIS IS PART OF  
TURN 0H9457.S  
Technical Standards & Safety Authority  
Boilers & Pressure Vessels  
Safety Program

			INSTRUCTION SHEET (NOT SHOWN, SEE NOTE 7)	
11	1		KIT, REPAIR/ROOFKIT	INVEST-350A
10	1		VALVE, PRESSURE RELIEF	19464-90
9	1		SCREW, 5/16-18 X 1.250 LG	PRV943271550
8	2		NUT, HEX	88-9404-30
7	2		WASHER	452331-30
6	2		HANDWHEEL	451002-30
5	2		SEAT DISC & RETAINER ASSY	432849-23
4	2		KIT, UPPER ASSEMBLY, REPAIR	B-8404-4
3	2		GASKET	88S9404-KITU
2	4		BRACKET	450104-44
1	1			INVEST-2

[illegible]

NOTES

7. APPLY 11550-688 GREASE. HAND TIGHTEN BOLTS. TORQUE TO 30 IN-LBS IN A CROSS PATTERN. RE-TORQUE TO 90 IN LBS, 90 IN-LBS, THEN 120 IN-LBS. EACH BOLT TO BE TORQUED 4 TIMES.
8. CLEAN & TEST PER 11550-400 OXYGEN SERVICE.
9. TEST PER 11550-400 OXYGEN SERVICE.
10. AFTER TESTING, WRAP THREE INCHES OF TAPPING PRESSURE RELIEF VALVE (11550-544) AND ASSEMBLE INTO MANIFOLD. PLACE PRESSURE RELIEF VALVE WITH PTFE TAPE.
11. PLACE EXTRA GASKETS IN PACKAGING MANIFOLD IN A WAY TO PREVENT DAMAGE. ATTACH CLOSURES TO ALL END CONNECTIONS TO PROTECT & SEAL WEIRNS.
12. INSTRUCTION SHEET TO BE INCLUDED IN FINAL PACKAGING.

## ATTACHMENT TO

CSA-GH1947.56

Signed: 12/23/10

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R5



[illegible]

ATTACHMENT TO  
C.R.N. CSA-0719457-106  
Signed: Ashtweet  
DR. Pamela D. Ashtweet, For 1000 QN Canada M9W 1R3  
50% ON END OF THIS PERIOD TO BE BRAZED

1. APPLY 11550-78 FLUX .500-1.000 IN. END OF TUBE FLANGE TO
2. BRAZE PER 450048 & 450051.
3. ALTERNATE BRAZING: BRAZE WITH 702870 ALLOY.
4. MECHANICALLY REMOVE OXIDES FROM BRAZED JOINTS.
5. BRITE-DIP ASSEMBLY PER 11550-39E AFTER BRAZING.
6. STORE CLEAN.



# 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





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.