



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

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. 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



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



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)

336-448-7707

(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 Vessels 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 _____ 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 **ISO9001** which has been verified by the following authority, **UNDERWRITERS LABORATORY INC**

The items covered by this declaration, for which I seek registration, are category **"H"** type fittings. In support of this application, the following information and/or test data are attached as follows:
SEE ATTACHED LIST

(drawings, calculations, test reports, etc.)

Declared before me at **Engineered Controls Int'l, LLC** in the **County** of **Alamance, NC**
the **18th** day of **April** AD 20**17**.

Commissioner for Oaths:

Marisa E. Elliott

(Printed name)

Marisa E. Elliott

(Signature)

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: **CSA-0H19457.56**

Registered by: **A. BANWATT**

Dated: **SEPTEMBER 09 2017**

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

REGISTERED

CRN: **CSA-0H19457.56**

Registration Process administered by
CSA Group per CSA B51



MARISA E. ELLIOTT
NOTARY PUBLIC
ALAMANCE COUNTY
NORTH CAROLINA

My Commission Expires 8/31/2021



See the attachment for the scope of the registration



345 Springview Drive
Toronto, Ontario M9W 6N9
Tel: 416 734 3300
Fax: 416 231 1625
Toll Free: 1 877 682 3772

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

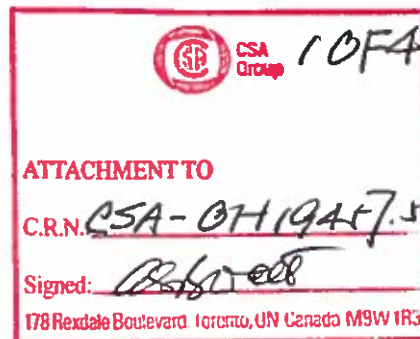
Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

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. 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



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

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



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

April 24, 2018

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

Service Request Type.: BPV-National AB
Service Request No.: 2105164
Your Reference No.:
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC
ONT CRN: 0H19457.5.

Dear CHAD THOMAS,

Please find enclosed the original response from AB, registered under the CRN No.: 0H18489.2

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

April 11, 2018

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

Email: tfrancis@tssa.org

The design submission, tracking number 2017-03972, originally received on June 28, 2017 was surveyed and accepted for registration as follows:

CRN : 0H18489.2 **Accepted on:** April 11, 2018
Reg Type: NEW DESIGN **Expiry Date:** April 11, 2028
Drawing No. : MVE54 Rev B
Fitting type: 3/4" MANIFOLD 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:

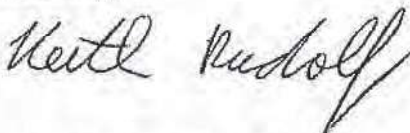
- TSSA Service Request No.: 2105164
- As per your email on January 22, 2018 the MDMT is -320 °F (-196 °C).
- As indicated on the AB-41 Statutory Declaration form the code of construction is ASME B31.3.
- This registration includes the following drawings:
 - * Assembly & sub-assembly drawings: MVE54 Rev B, MVE54-2 Rev B, MVE50-5E Rev A, BBS9404-KITU Rev A, T9464-80 SER Rev F, and PRV9432T SER Rev G.
 - * Part drawings: MV50-22D Rev A, 2227-21 Rev B, MVE54-1A Rev A, MVE58-1C Rev A, MVE54-22C Rev A, MVE54-4 Rev A, MVE54-3 Rev A, BB-9404-30 Rev A, BBS9404-2 Rev A, BB-9404-2F Rev A, BBS9403-4 Rev A, 452538-12 Rev E, 9464-3 Rev C, 9464-15 Rev B, and PRV250 SER-1 Rev D.
- 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 QMS approved by an acceptable third-party agency until that date. Should the approval of the QMS 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,



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



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

- comply with the requirements of ASME B31.3 which specifies the dimensions, materials of construction, pressure/temperature ratings and identification marking of the fittings, or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with as supported by the attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

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

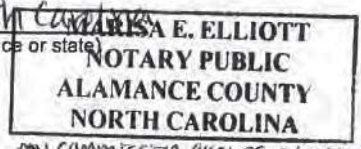
CATEGORY "H"

(brief description of fittings)

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

SEE ATTACHED LIST

DECLARED before me at Elon in the Alamance County of North Carolina this 18th day of April, 2017



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

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

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: 0H18489.2 (Signature of the Administrator/SCO)

Date Registered: APR 11 2018 Expiry Date: Apr 11 2028

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 B283	600

ABSA
SAFETY CODES ACT - PROVINCE OF ALBERTA
REGISTRATION OF FITTINGS
REGISTRATION NO. 0H18489.2
DWG. NO. or CAT. NO. MVE54 Rev B
TYPE OF FITTINGS 3/4" Manifold Assembly
APR 11 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

0H18489.2

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





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

Service Request Type.: BPV-National ACI Central
Service Request No.: 2105176
Your Reference No.:
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD THOMAS,

Please find enclosed the original response from PEI, NS, NB, NFLD, YK, NWT, NU registered under the CRN No.: 0H19457.59870YTN.

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,

Joanna Karpinski

Tel: 416-734-3377
Fax: 416-231-6183
Email: jkarpinski@tssa.org


UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGN

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: ENGINEERED CONTROLS INTERNATIONAL LLC	
MANUFACTURERS ADDRESS: 300 REGO DRIVE, ELON, NC-27244	
PLANT LOCATIONS: SAME AS ABOVE	
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>H Pressure retaining components that do not fall into one of the above categories</p> <p>I Nuclear components: Class 1 <input type="checkbox"/> Class 2 <input type="checkbox"/> Class 3 <input type="checkbox"/> (Meeting AECB or ASME requirements)</p>	<p>TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>ASME B31.3</p>
<p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> 	<p>TYPE OF CONSTRUCTION</p> <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>
<p>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>SEE ATTACHED LISTING</p>	

DECLARATION:

I CHAD THOMAS (see note 1) employed by EO, LLC and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001/ULINC as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer:

Chad M. Thomas
 Declared before me at Engineered Controls Int'l, LLC ^{Alamance Co, NC}

This 18th day of April AD 2017

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

(Affix Official seal to the right)

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

MY COMMISSION EXPIRES 6/31/2021

This space for Regulatory Authority use
This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: OH19457.5

FID#: 1704

Notes:

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

ACCEPTED
 PROVINCE OF PRINCE EDWARD ISLAND
 COMMUNITIES, LAND & ENVIRONMENT

C.R.N. OH19457.59
 DATE: July 16 2017
J. McCole
 INSPECTION SERVICES SECTION
 BOILER/PRESSURE VESSEL BRANCH

UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: **ENGINEERED CONTROLS INTERNATIONAL LLC**
MANUFACTURERS ADDRESS: **100 REGO DRIVE, ELON, NC-27244**
PLANT LOCATIONS: **SAME AS ABOVE**

<p>CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs 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)</p>	<p>TITLE OF THE STANDARD OF CONSTRUCTION</p> <p>ASME B31.3</p>
--	--

<p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> 	<p>TYPE OF CONSTRUCTION</p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:</p>
--	---

LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:

SEE ATTACHED LISTING

DECLARATION:

I CHAD THOMAS (class note 3) employed by ECI LLC and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001/ULINC as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: Chad M. Thomas *Harman Co, NC*

Declared before me at Engineered Controls Int'l, LLC
This 18th day of April AD 2017

Commissioner of Oaths or Notary Public: (sign) Marisa E. Elliott
(Affix Official seal to the right)

USE THIS SEAL FOR THE OFFICE OF ALAMANCE COUNTY NOTARY PUBLIC NORTH CAROLINA

MARISA E. ELLIOTT
NOTARY PUBLIC
ALAMANCE COUNTY
NORTH CAROLINA

My Commission Expires 8/31/2021

This space for Regulatory Authority use
 This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: OH19457.5
 FIDN: 1704

BOILER & PRESSURE VESSEL
 NOVA SCOTIA
 Date July 7/17
 C.R.N. OH19457.5B
 Dwg. as described
 Signed Yvonne Perry
1 of 1
 Part

ACT & REGULATIONS

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: ENGINEERED CONTROLS INTERNATIONAL LLC	
MANUFACTURERS ADDRESS: 100 REGO DRIVE, ELON, NC-27244	
PLANT LOCATIONS: SAME AS ABOVE	
<p align="center">CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs 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 AECS or ASME requirements)</p>	<p align="center">TITLE OF THE STANDARD OF CONSTRUCTION</p> <p align="center" style="font-size: 24pt;">ASME B31.3</p>
<p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> <div align="center" style="border: 1px solid black; padding: 5px; width: 100px; margin: 0 auto;">  </div>	<p align="center">TYPE OF CONSTRUCTION</p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:</p>
<p>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p align="center">SEE ATTACHED LISTING</p>	

DECLARATION:

I CHAD THOMAS (see note 3) employed by ECI LLC and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001/ULINC as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: Chad M. Thomas

Declared before me at Engineered Controls Int'l, LLC

This 18th day of April AD 2017

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

(Affix Official seal to the right)

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

my Commission expires 8/31/2021

<p align="center">This space for Regulatory Authority use</p> <p align="center">This registration must be revalidated after ten (10) years from the date of acceptance.</p> <p>CRN: <u>OH19457.5</u></p> <p>FID#: <u>1704</u></p> <p>Notes: 1. All fittings shall be registered in the name of the Manufacturer. 2. Each fitting 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.</p>	<p align="center">Brunswick DEPT OF PUBLIC SAFETY BOILER & PRESSURE VESSEL ACT</p> <p align="center">REGISTRATION ONLY</p> <p>CRN <u>OH19457.57</u></p> <p>EXAMINER: <u>John Crow</u> for CHIEF BOILER INSPECTOR</p>
---	---

DATE: 7/7/2017

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

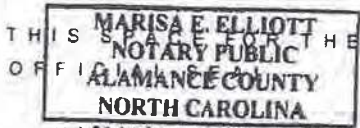
NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: ENGINEERED CONTROLS INTERNATIONAL LLC	
MANUFACTURERS ADDRESS: 100 REGO DRIVE, ELON, NC-27244	
PLANT LOCATIONS: SAME AS ABOVE	
<p>CATEGORY OF FITTINGS TO BE REGISTERED. CIRCLE ONE CATEGORY ONLY</p> <p>A Pipe fittings, including couplings, tees, elbows, Ys, plugs, unions, pipe caps, or reducers B Flanges: all flanges C Valves: all line valves D Expansion joints, flexible connections, and hose assemblies: all types E Strainers, filters, separators, and steam traps F Measuring devices, including pressure gauges, level gauges, sight glasses, levels, or pressure transmitters G Certified capacity-rated pressure relief devices acceptable as primary over pressure protection on boilers, pressure vessels, piping and fusible plugs 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)</p>	<p>TITLE OF THE STANDARD OF CONSTRUCTION</p> <p align="center" style="font-size: 24pt;">ASME B31.3</p>
<p>SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT</p> 	<p>TYPE OF CONSTRUCTION</p> <p>FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:</p>
<p>LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p align="center">SEE ATTACHED LISTING</p>	


DECLARATION:

I, CHAD THOMAS (see note 3) employed by ECI LLC and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001/ULINC as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: Chad M. Thomas *Harman Co, NC*
 Declared before me at Engineered Controls Int'l, LLC - NC
 This 18th day of April AD 2017
 Commissioner of Oaths or Notary Public: (sign) Marisa E. Elliott
 (Affix Official seal to the right)



my Commission expires 8/31/2021

This space for Regulatory Authority use This registration must be revalidated after ten (10) years from the date of acceptance.	
CRN: <u>OH19457.5</u> FID#: <u>1704</u>	 Registered <u>OH19457.50</u> Date <u>12/02/13</u> Engineering and Inspection Service Registered by: <u>[Signature]</u>
<p>Notes:</p> <ol style="list-style-type: none"> All fittings shall be registered in the name of the Manufacturer. Each category shall be supported with two Statutory Declaration forms and one copy of supporting documentation. The declaration shall be made by the person having full authority and responsibility for the quality of the end product. Quality control programs shall be resubmitted for validation at a maximum interval of five (5) years. 	

UNDER THE AUTHORITY OF THE
PUBLIC SAFETY ACT AND
THE BOILER, PRESSURE VESSEL AND
COMPRESSED GAS REGULATION


UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: ENGINEERED CONTROLS INTERNATIONAL LLC	
MANUFACTURERS ADDRESS: 100 REGO DRIVE, ELON, NC-27244	
PLANT LOCATIONS: SAME AS ABOVE	
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SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT	
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SEE ATTACHED LISTING	

DECLARATION:

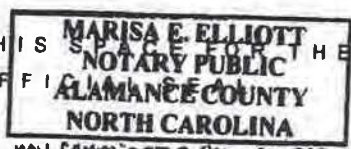
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Signature of Declarer: Chad M. Thomas

Declared before me at Engineered Controls Int'l, LLC
This 18th day of April AD 2017

Commissioner of Oaths or Notary Public: (sign) Marisa E. Elliott
(Affix Official seal to the right)

Alamance Co, NC



USE THIS SPACE FOR THE OFFICIAL SEAL OF THE NOTARY PUBLIC
my commission expires 8/31/2021


This space for Regulatory Authority use
This registration must be revalidated after ten (10) years from the date of acceptance.

CRN: OH19457.5

FID#: 1704

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- All fittings shall be registered in the name of the Manufacturer.
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UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: ENGINEERED CONTROLS INTERNATIONAL LLC	
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SHOW MANUFACTURERS NAME, TRADEMARK, OR LOGO AS IT WILL APPEAR ON THE PRODUCT 	TYPE OF CONSTRUCTION FORGED <input type="checkbox"/> WELDED <input type="checkbox"/> WROUGHT <input type="checkbox"/> CAST <input type="checkbox"/> OTHER <input type="checkbox"/> DESCRIBE OTHER:
LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED: SEE ATTACHED LISTING	

DECLARATION:

I CHAD THOMAS (name next to) employed by ECI LLC and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001/ULINC as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer:

Chad M. Thomas Alamanec Co. AC

Declared before me at

Engineered Controls Int'l, LLC

This 18th day of

April AD 2017

Commissioner of Oaths or Notary Public: (sign)

Marisa E. Elliott

(Affix Official seal to the right)

USE THIS SPACE FOR THE OFFICIAL SEAL OF THE NOTARY PUBLIC

MARISA E. ELLIOTT
NOTARY PUBLIC
 ALAMANEC COUNTY
 NORTH CAROLINA

MY COMMISSION EXPIRES 8/31/2021

This space for Regulatory Authority use

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

GRN: OH19457.5

FID#: 1704

Notes:
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Northwest Territories
REGISTERED
 UNDER THE AUTHORITY OF
 THE BOILER AND PRESSURE
 VESSEL ACT.
 C.R.N. OH19457.5
 SIGNED [Signature]
 DATE July 11/2017

76200


UNIFORM STATUTORY DECLARATION FORM FOR THE REGISTRATION OF FITTING DESIGNS

NEW BRUNSWICK
NUNAVUT

NOVA SCOTIA
YUKON

PRINCE EDWARD ISLAND
NORTHWEST TERRITORIES

NEWFOUNDLAND AND LABRADOR

MANUFACTURERS NAME: ENGINEERED CONTROLS INTERNATIONAL, LLC	
MANUFACTURERS ADDRESS: 100 REGO DRIVE, ELON, NC-27244	
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<p align="center">LIST OF SUPPORTING DOCUMENTATION AND IDENTIFICATION OF THE ACTUAL ITEMS TO BE REGISTERED:</p> <p>SEE ATTACHED LISTING</p>	

DECLARATION:

I CHAD THOMAS (last name) employed by ECI, LLC and being the person having full authority and responsibility for the quality of the end product do solemnly declare that the information contained in this form is true and to the best of my knowledge represents the product for which registration is sought. The dimensions, materials of construction, pressure temperature ratings, and identification markings are in accordance with the herein named standards. I further declare that the manufacture of these fittings is regulated by a Quality Control Program which extends to each plant where fabrication occurs in whole or in part and has been verified by ISO 9001/ULINC as being suitable for that purpose and I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath.

Signature of Declarer: Chad M. Thomas

Declared before me at Engineered Controls Int'l, LLC


This 18th day of April AD 2017

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

(Affix Official seal to the right)

USE THIS SPACE FOR THE
MARISA E. ELLIOTT
 NOTARY PUBLIC
 OFFICE
 ALAMANCE COUNTY
 NORTH CAROLINA

MY COMMISSION EXPIRES 8/31/2021

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CRN: <u>OH19457.5</u>	
FID#: <u>1704</u>	
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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

July 25, 2017

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

Service Request Type.: BPV-National BC
Service Request No.: 2105188
Your Reference No.:
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD THOMAS,

Please find enclosed the original response from BC, registered under the CRN No.: 0H19457.51.

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,

Joanna Karpinski

Tel: 416-734-3377
Fax: 416-231-6183
Email: jkarpinski@tssa.org



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

Date: July 5, 2017
Account #: 35231
Journal #: 68401
Our File #: 5617839

Attn: TANYA FRANCIS

Re: Application for Design Registration

The design, as detailed in your, TSSA SR# 2105188, for a Fitting is accepted for registration as follows:

Registered To: ENGINEERED CONTROLS INTERNATIONAL LLC **CRN:** 0H19457.51

MDMT: -320 deg F

MAWT: 165 deg F

MAWP: 600 psig

Drawing #: MVE54-1C, MVE50-22D, MVE54-22C

Drawing Revision: B

Conditions Of Registration:

Registration of MVE54 Manifold Assembly as per attached scope of registration sheets (3 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:

Per TSSA's registration note: Design & construction in accordance with B31.1 & B31.3 code. Assembly shall be pressure tested per paragraph 137 in ASME B31.1 code. As required by CSA B51 4.2.1, this registration expires on June 19, 2027. This CRN is valid until the expiry date as long as the Mfr maintains a valid Q.C. program verified by an acceptable 3rdparty agency until that date. Should the certification of the Q.C. 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:

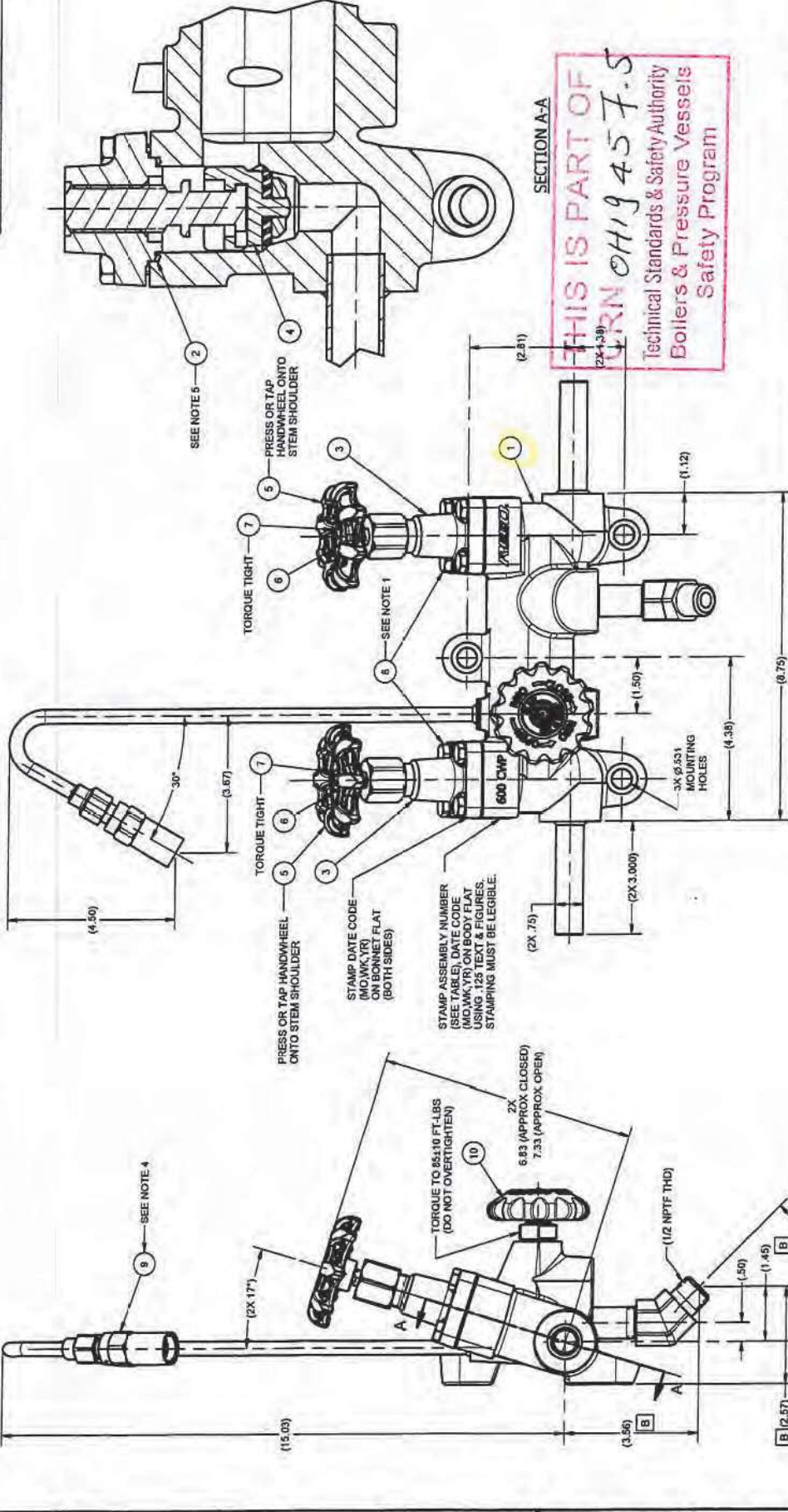
Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	MVE54	Fill Manifold	MVE54-1C	MVE54-1A	Bronze Cast Alloy, UNS C92200, ASTM B61	600
			MVE50-22D	MVE50-22D	Stainless Steel Tube, UNS30403, ASTM A269, TP304L	600
			MVE54-22C	MVE54-22C	Stainless Steel Tube, UNS30403, 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



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

BCSAJ#68401

REV	DATE	DESCRIPTION
A	2016-2-19	8-25-16 ISSUED
B	2017-08-5	3-2-17 REV



THIS IS PART OF
CRN OHig 457.5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program

ITEM	QTY	DESCRIPTION	UNLESS OTHERWISE SPECIFIED:	UNIT	SCALE	REV. LEVEL	DATE	BY	CHKD	APP'D	REVISED DATE	DESCRIPTION	PART NUMBER
11	1	INSTRUCTION SHEET (NOT SHOWN, SEE NOTE 7)	ASSEMBLY	1									INVE50-350A
10	1	KIT, REPAIR/RETROFIT	VALVE	1									TR464-80
9	1	VALVE, PRESSURE RELIEF	SCREW, 9/16-18 X 1.250 LG	1									PRV94321550
8	2	WASHER	NUT, HEX	1									BB-9404-30
7	2	WASHER	HANDWHEEL	1									452831-30
6	2	HANDWHEEL	SEAT DISC & RETAINER ASSY	1									453102-30
5	2	HANDWHEEL	KIT, UPPER ASSEMBLY REPAIR	1									452649-23
4	2	SEAT DISC & RETAINER ASSY	GASKET	1									B-9404-1
3	2	KIT, UPPER ASSEMBLY REPAIR	BROZEMENT	1									BRS8404-KTU
2	4	GASKET		1									45104-44
1	1	BROZEMENT		1									INVE54-2



- NOTES:**
- APPLY 11550-698 GREASE, HAND TIGHTEN BOLTS. TORQUE TO 30 IN-LBS IN A CRISS CROSS PATTERN, RE-TORQUE TO 60 IN-LBS, 90 IN-LBS, THEN 120 IN-LBS. EACH BOLT MUST BE TORQUED 4 TIMES.
 - CLEAN & PACKAGE PER B-11550-400 OXYGEN SERVICE
 - TEST PER INVE50-100A PRIOR TO INSTALLING PRESSURE RELIEF VALVE
 - AFTER TESTING, WRAP THREADS OF PRESSURE RELIEF VALVE WITH PTFE TAPE (11550-544) AND ASSEMBLE INTO MANIFOLD.
 - PLACE EXTRA GASKETS IN PACKAGING W/MANIFOLD IN A WAY TO PREVENT DAMAGE.
 - ATTACH CLOSURES TO ALL END CONNECTIONS TO PROTECT & SEAL OPENINGS.
 - INSTRUCTION SHEET TO BE INCLUDED IN FINAL PACKAGING.

APPROVED/CONTROLLED

MANIFOLD FOR CHART CYLINDERS

MVE54

FORMING NUMBER

ENGINEERED CONTROL INTERNATIONAL, LLC

REGD. REGR. CRYS-CRY-FL/OW
 100N. AVE. 272N. WASHINGTON, NC 27681
 THE DRAWING IS NOT FOR CONSTRUCTION PURPOSES.
 ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.

REVISION NUMBER

SCALE

1:2

REV. LEVEL

B

DATE

12

BY

CF974

PRODUCT NAME

WEIGHT (LBS)

SCALE

1:2

REV. LEVEL

B

DATE

12

BY

CF974

PRODUCT NAME

WEIGHT (LBS)

SCALE

1:2

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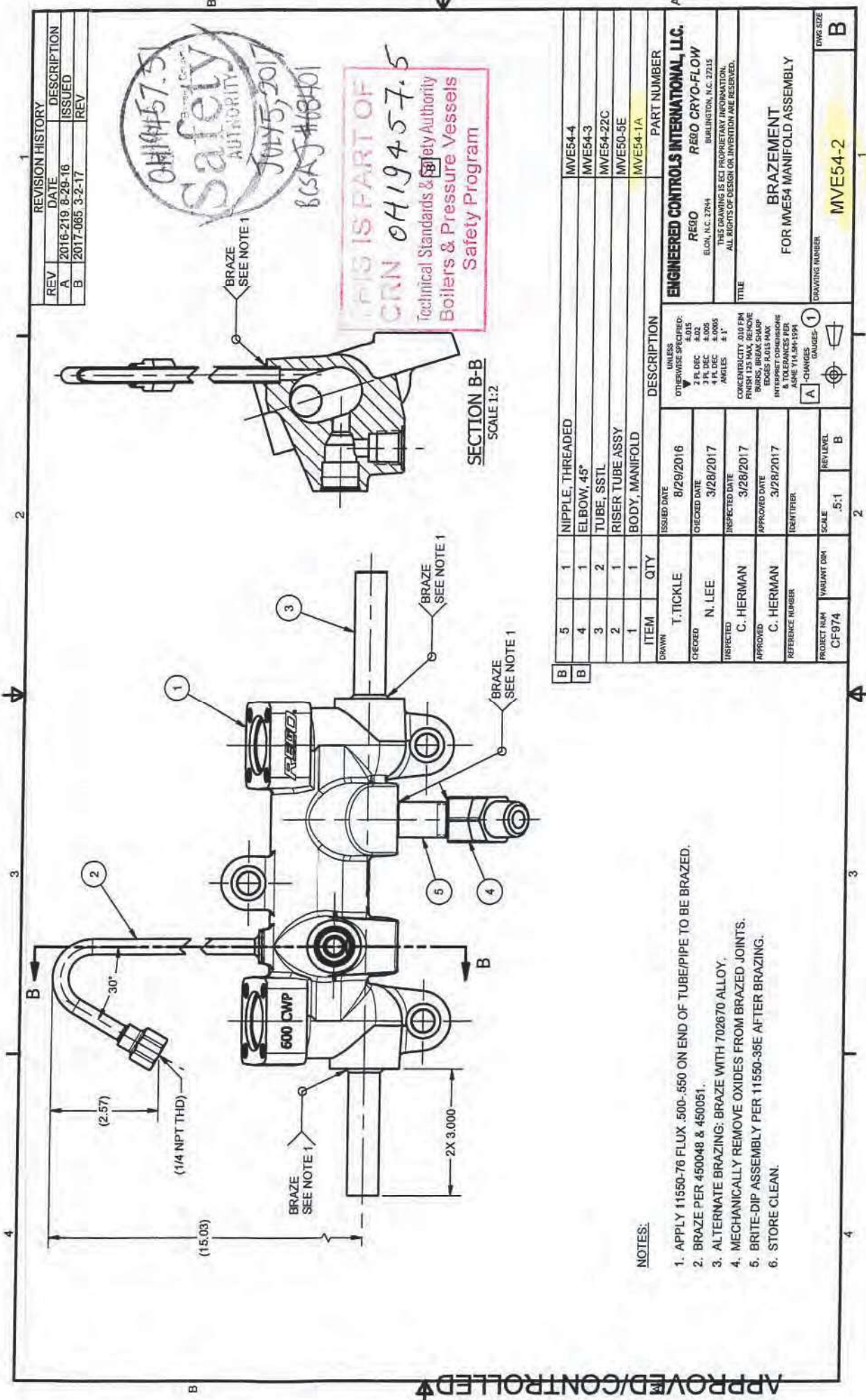
12

BY

CF974

PRODUCT NAME

WEIGHT (LBS)



REV	DATE	DESCRIPTION
A	2016-219 8-29-16	ISSUED
B	2017-065 3-2-17	REV

0H19457.51
Safety Authority
 JULY 5, 2017
 BCSA J#18101

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

SECTION B-B
 SCALE 1:2

ITEM	QTY	DESCRIPTION	PART NUMBER
5	1	NIPPLE, THREADED	MVE54-4
4	1	ELBOW, 45°	MVE54-3
3	2	TUBE, SSSL	MVE54-22C
2	1	RISER TUBE ASSY	MVE50-5E
1	1	BODY, MANIFOLD	MVE54-1A

ISSUED DATE	8/29/2016
CHECKED	T. TICKLE
INSPECTED	N. LEE
APPROVED	C. HERMAN
REFERENCE NUMBER	C. HERMAN

SCALE	5:1
REVISION	B
PROJECT NBR	CF074
VARIANT DIR	
DWG SIZE	B

NOTES:

1. APPLY 11550-76 FLUX .500-.550 ON END OF TUBE/PIPE TO BE BRAZED.
2. BRAZE PER 450048 & 450051.
3. ALTERNATE BRAZING: BRAZE WITH 702670 ALLOY.
4. MECHANICALLY REMOVE OXIDES FROM BRAZED JOINTS.
5. BRITE-DIP ASSEMBLY PER 11550-35E AFTER BRAZING.
6. STORE CLEAN.

ENGINEERED CONTROLS INTERNATIONAL, LLC.
 REGO
 REGO CRYO-FLOW
 BURLINGTON, N.C. 27215
 ELON, N.C. 27844
 THIS DRAWING IS ECI PROPRIETARY INFORMATION.
 ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.

BRAZEMENT
 FOR MVE54 MANIFOLD ASSEMBLY

DRAWING NUMBER
MVE54-2

APPROVED/CONTROLLED



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

November 10, 2017

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

Service Request Type.: BPV-National CSA
Service Request No.: 2105230
Your Reference No.:
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD THOMAS,

Please find enclosed the original response from QC, SK registered under the CRN No.:
CSA-0H19457.56.

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



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 www.tssa.org



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 B31.3**

(Title of recognized North American Standard)

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 **ISO90001** which has been verified by the following authority, **UNDERWRITERS LABORATORY INC**

The items covered by this declaration, for which I seek registration, are category **"H"** type fittings. In support of this application, the following information and/or test data are attached as follows:
SEE ATTACHED LIST

(Drawings, calculations, test reports, etc.)

Declared before me at **Engineered Controls Int'l, LLC** in the **County** of **Alamance, NC**

the **18th** day of **April** AD **20 17**

Commissioner for Oaths:

MARISA E. ELLIOTT

(Printed name)

Marisa E. Elliott

(Signature)

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: **CSA-OH19457.56**

Registered by: **A. BANWATT**

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



See the attachment for the scope of the registration



REGISTERED

CRN: CSA-0H19A7.56

 Registration Process administered by

 CSA Group per CSA B51

Technical Review performed per CSA B51

 Performed by: ANRIC Enterprises Inc.

 Signed: W. Russell

 Date: September 09, 2017



CERTIFIED

TRUE COPY

 Date: Jan 19/17

 Signature: [Signature]

Colleen Anne Ratcliff,

 a Commissioner, etc., City of Toronto, for the

 Technical Standards & Safety Authority.

 Expires July 24, 2019



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: 416-734-3300
Fax: 416-231-1625
Toll Free: 1-877-682-8772

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. 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



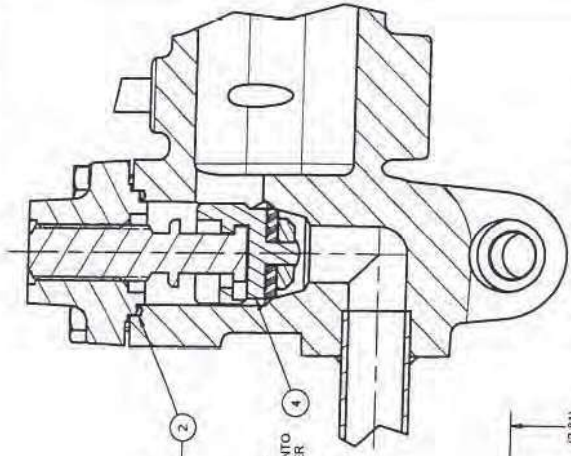
Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	MVE54	Fill Manifold	MVE54-1C	MVE54-1A	Bronze Cast Alloy, UNS C92200, ASTM B61	600
			MVE50-22D	MVE50-22D	Stainless Steel Tube, UNS30403, ASTM A269, TP304L	600
			MVE54-22C	MVE54-22C	Stainless Steel Tube, UNS30403, 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 M9W 1R3

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

Max Op 600 psi At 165°F

REV	DATE	DESCRIPTION
A	2016-2-11	ISSUED
B	2017-06-5	3-2-17 REV



SECTION A-A

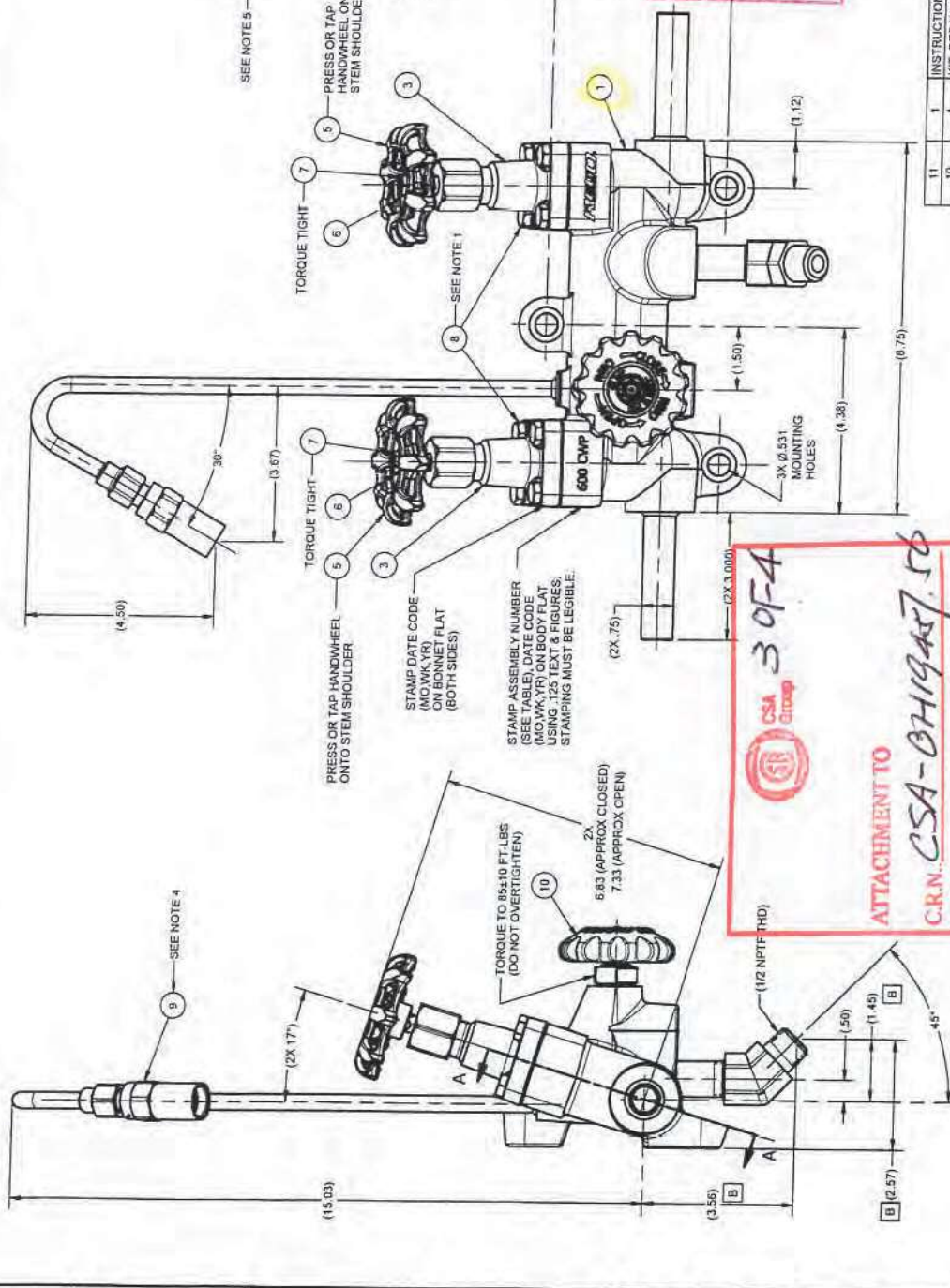
THIS IS PART OF

CRN OH19457.5

Technical Standards & Safety Authority

Boilers & Pressure Vessels

Safety Program



ATTACHMENT TO

CSA 30F-4

C.R.N. CSA-0H19457.5b

Signed: [Signature]

178 Rexdale Boulevard, Toronto, ON M9W 1R5

- NOTES:**
1. APPLY 11550-688 GREASE. HAND TIGHTEN BOLTS. TORQUE TO 30 IN. LBS IN A CRISS CROSS PATTERN. RE-TORQUE TO 60 IN. LBS, 90 IN. LBS, THEN 120 IN. LBS. EACH BOLT MUST BE TORQUED 4 TIMES.
 2. CLEAN & PACKAGE PER B-11550-400 OXYGEN SERVICE.
 3. TEST PER MVE50-100A PRIOR TO INSTALLING PRESSURE RELIEF VALVE.
 4. (11550-100) TESTING, WRAP THREADS OF PRESSURE RELIEF VALVE WITH PTFE TAPE.
 5. PLACE EXTRA GASKETS IN PACKAGING MANIFOLD IN A WAY TO PREVENT DAMAGE.
 6. ATTACH CLOSURES TO ALL END CONNECTIONS TO PROTECT & SEAL OPENINGS.
 7. INSTRUCTION SHEET TO BE INCLUDED IN FINAL PACKAGING.

ITEM	QTY	DESCRIPTION	UNIT	PART NUMBER
11	1	INSTRUCTION SHEET (NOT SHOWN, SEE NOTE 7)		MVE50-350A
10	1	KIT, REPAIR/RETROFIT		T9464-80
9	1	VALVE, PRESSURE RELIEF		PRV94321550
8	8	SCREW, 5/16-18 X 1.250 LG		BB-9404-30
7	2	NUT, HEX		452831-30
6	2	WASHER		453102-30
5	2	HANDWHEEL		452849-23
4	2	SEAT DISC & RETAINER ASSY		B-8404-4
3	2	KIT, UPPER ASSEMBLY REPAIR		BBS9404-KITU
2	4	GASKET		450104-44
1	1	BRAZEMENT		MVE54-2

DATE	BY	DESCRIPTION
8/28/2016	N. LEE	DESIGNED
3/28/2017	C. HERMAN	INSPECTED
3/28/2017	C. HERMAN	APPROVED
3/28/2017	C. HERMAN	DATE

ENGINEERED CONTROL INTERNATIONAL, LLC.

REGO

REGO CRYO-FLOW

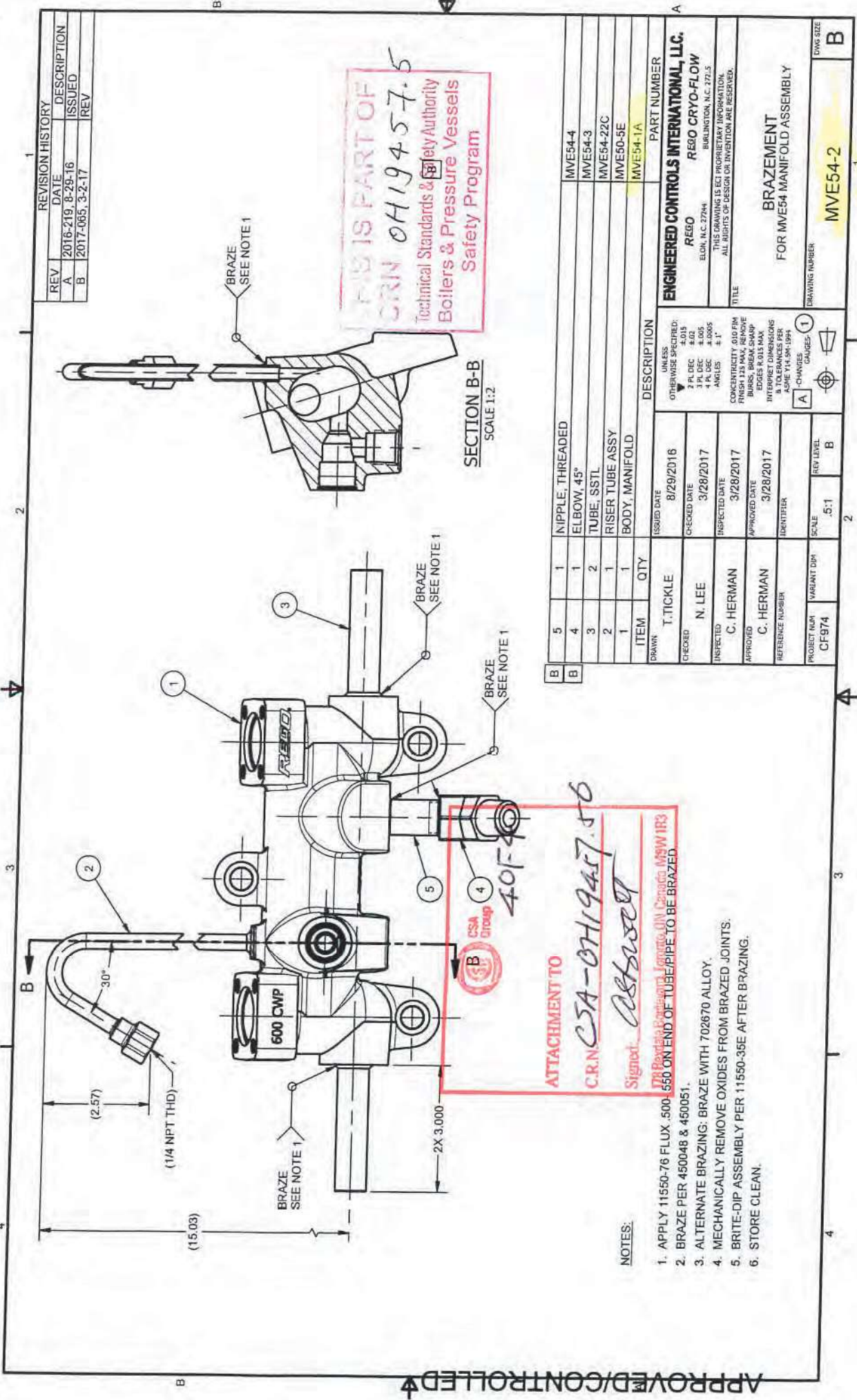
1700 S. W. 10TH AVE. SUITE 200
BOCA RATON, FL 33433

ALL RIGHTS OF INVENTION ARE RESERVED.

MANIFOLD FOR CHART CYLINDERS

MVE54

APPROVED/CONTROLLED



REV	DATE	DESCRIPTION
A	2016-219, 8-29-16	ISSUED
B	2017-065, 3-2-17	REV

ITEM	QTY	DESCRIPTION	ISSUED DATE	ISSUED DATE	PART NUMBER
5	1	NIPPLE, THREADED	8/29/2016		MVE54-4
4	1	ELBOW, 45°			MVE54-3
3	2	TUBE, SSSL	3/28/2017		MVE54-22C
2	1	RISER TUBE ASSY			MVE50-9E
1	1	BODY, MANIFOLD	3/28/2017		MVE54-1A

UNLESS OTHERWISE SPECIFIED:
7 FL DEC ±0.05
4 FL DEC ±0.02
1 FL DEC ±0.005
ANGLES ±1°
CONCENTRICITY 0.04 FIM
FINISH 125
BURRS, BREAK SHARP
EDGES R.015 MAX
INTERPRET DIMENSIONS PER ASME Y14.5M-1994
TOLERANCES PER ASME Y14.5M-1994

PROJECT NUM	VARIANT DIM	SCALE	REV LEVEL	REV LEVEL
CF974		.5:1	B	B

- NOTES:
1. APPLY 11550-76 FLUX .500-550 ON END OF TUBE/PIPE TO BE BRAZED.
 2. BRAZE PER 450048 & 450051.
 3. ALTERNATE BRAZING: BRAZE WITH 702670 ALLOY.
 4. MECHANICALLY REMOVE OXIDES FROM BRAZED JOINTS.
 5. BRITE-DIP ASSEMBLY PER 11550-35E AFTER BRAZING.
 6. STORE CLEAN.

ENGINEERED CONTROLS INTERNATIONAL, LLC.
REGO
 REGO CRYO-FLOW
 ECOLN, N.C. 27844
 BURLINGTON, N.C. 27215
 THIS DRAWING IS ECI PROPRIETARY INFORMATION.
 ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.

BRAZEMENT
 FOR MVE54 MANIFOLD ASSEMBLY

DRAWING NUMBER
MVE54-2

DWG SIZE
B

APPROVED/CONTROLLED



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

November 17, 2017

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

Service Request Type.: BPV-National MB
Service Request No.: 2105240
Your Reference No.:
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC

Dear CHAD THOMAS,

Please find enclosed the original response from MB, registered under the CRN No.: 0H19457.54.

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,

Tanya Francis
Administrative Assistant_ BPV Engineering
Tel. : 416-734-3423
Fax : 416-231-6183
Email : tfrancis@tssa.org



Inspection and Technical Services Manitoba

500 - 401 York Avenue

Winnipeg Manitoba R3C 0P8

T (204) 945-3373

F (204) 948-2309

www.firecomm.gov.mb.ca/codes_steam_pressure.html

October 19, 2017

TSSA
345 Carlingview Drive
Toronto, ON
M9W 6N9

Attn: Tanya Francis

REGISTRATION OF VALVES AND FITTINGS

Manufacturer: Engineered Controls International LLC

The design(s) for the following Valves/Fittings has been received by us and has been examined and accepted for registration in the Province of Manitoba as follows.

DRAWING / CATALOGUE	CRN	FILE
MVE54 Assembly	0H19457.54	38047

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 **June 19, 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

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

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

MWP 600 Psi AT 165°F

Manitoba
 Office of the Fire Commissioner
 Technical Services
 Manpower
 THIS IS PART OF CRN
 0H19457.54



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



STATUTORY DECLARATION Registration of Fittings

I, **CHAD THOMAS, VP GLOBAL ENGINEERING**

(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of **ENGINEERED CONTROLS INTERNATIONAL, LLC**

(Name of Manufacturer)

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

(Plant Address)

336-449-7707

(Telephone No.)

(Fax No.)

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

(Title of recognized North American Standard)

or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

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

(drawings, calculations, test reports, etc.)

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

Commissioner for Oaths:

MARISA E. ELLIOTT
 (Printed name)

Marisa E. Elliott
 (Signature)

Chad M. Thomas
 (Signature of Declarant)

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: **PH19457.34**

Registered by: **Rubie Herb**

Dated: **2017.10.19**

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

PV 09553 (06/16)



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

My Commission Expires 8/31/2024



**CERTIFIED
TRUE COPY**

Date: *June 19/17*

Signature: *[Handwritten Signature]*

**Colleen Anne Ratcliff,
a Commissioner, etc., City of Toronto, for the
Technical Standards & Safety Authority
Expires July 24, 2019.**