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Toronto, Ontario  
CANADA M9W 6N9  
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Toll Free: 1.877.682.8772  
**[www.tssa.org](http://www.tssa.org)**

July 18, 2017

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

Service Request Type.: BPV-National AB  
Service Request No.: 2013106  
Your Reference No.:  
Registered to.: ENGINEERED CONTROLS INTERNATIONAL LLC  
ONT CRN: 0H19064.5

Dear CHAD THOMAS,

Please find enclosed the original response from AB, registered under the CRN No.: 0H15882.2.

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

Should you have any questions or require further assistance, I will be happy to assist you.  
For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail [customerservices@tssa.org](mailto:customerservices@tssa.org). When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Tanya Francis  
Administrative Assistant\_ BPV Engineering  
Tel. : 416-734-3423  
Fax : 416-231-6183  
Email : [tfrancis@tssa.org](mailto:tfrancis@tssa.org)

June 16, 2017

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

**Email:** tfrancis@tssa.org

The design submission, tracking number 2017-00501, originally received on January 27, 2017 was surveyed and accepted for registration as follows:

**CRN :** 0H15882.2

**Accepted on:** June 16, 2017

**Reg Type:** New Design

**Expiry Date:** June 16, 2027

**Drawing No. :** MVE4D SER Rev A

**Fitting type:** 1.5" MANIFOLD

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.: 2013106*

*This registration includes the following drawings:*

*Assembly & sub-assembly drawings: MVE4D SER Rev A, C-11827450 Sheets 1 & 2 Rev B, 450110 SER Rev A, 450150A SER Rev A, 450155 SER Rev A, 1332SS-6A SER Rev A, BKA8412-KITU Rev F, B-8412-10 Rev B, BK9450R-KITU Rev D, B-9404-KITU Rev E, B-9402-5 Rev B, B-9408-KITU Rev E, and B-9408-6 Rev B.*

*Part drawings: 450154 Rev A, 2227-21 Rev B, 450039 Rev A, 450043 Rev D, 450044 Rev C, 2227-25 Rev C, 450153 Rev A, STR2 Rev A, 450059 Rev A, 450151 Rev B, 1337C-22 SER Rev B, 1337-53 Rev B, 1337B-22 SER Rev A, 1337-62A Rev A, B-8400-12SE SER Rev D, B-8400-12C Rev D, B-9408ST-1 Rev A, B-9407-1C Rev G, B-9404ST-2 Rev C, B-9404ST-1 Rev C, B-9403-1C Rev F, B-8412-11 Rev E, BK9450-8 Rev C, and B-9402-10 Rev E.*

*As indicated on the AB-41 Statutory Declaration form the code of construction is ASME B31.3.*

June 16, 2017

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

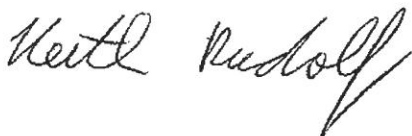
*This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.*

*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.

Sincerely,



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

**STATUTORY DECLARATION  
Registration of Fittings**

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

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



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

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

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

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

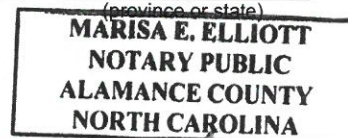
See attached list

DECLARED before me at Elon in the County of Alamance, NC  
(city) (province or state)

this 1st day of June, 2017  
(Month) (Year)

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

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



my commission expires 8/31/2021

Chad M. Thomas  
(signature of applicant)

**For ABSA Office Use Only:**

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: 0H15882.2

Heath R. Ruff  
(Signature of the Administrator/SCO)

Date Registered: JUN 16 2017

Expiry Date: Jun 16 2027

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.



Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	MVE4D	Manifold	450154	450154	Stainless Steel Pipe, ASTM A249, TP304L	600
			450043	450043	FC Brass, UNS C36000, ASTM B16	600
			2227-25	2227-25	FC Brass, UNS C36000, ASTM B16	600
			450153	450153	FC Brass, UNS C36000, ASTM B16	600
			450059	450059	Stainless Steel Pipe, ASTM A249, TP304L	600
			450151	450151	Stainless Steel Pipe, ASTM A249, TP304L	600
			1337C- 22 SER	1337C-22 B, C	Stainless Steel Pipe, ASTM A249, TP304L	600
			1337-53	1337-53	Stainless Steel Pipe, ASTM A249, TP304L	600
			1337B-22 SER	1337B-22B	Stainless Steel Pipe, ASTM A312, TP304L	600
			1337B-62A	1337B-62A	Stainless Steel Pipe, ASTM A249, TP304L	600
			B-8400-12C	B-8400-12SE	Bronze Cast Alloy, UNS C92200, ASTM B61	600
			B-9407-1C	B-9408ST-1	Bronze Cast Alloy, UNS C92200, ASTM B61	600
			B-9403-1C	B-9404ST-2	Bronze Cast Alloy, UNS C92200, ASTM B61	600
			B-8412-11	B-8412-11	Stainless Steel Pipe, ASTM A249, TP304L	600
			BK9450-8	BK9450-8	FC Brass, UNS C36000, ASTM B16	600
			B-9402-10	B-9402-10	Stainless Steel Pipe, ASTM A249, TP304L	600
			B-9408-KITU	B-9402-10	Stainless Steel Pipe, ASTM A249, TP304L	600
			450044	450044	FC Brass, UNS C36000, ASTM B16	600
			450039	450039	Brass Forge, UNS C37700, ASTM A283	600
			STR2	STR2	FC Brass, UNS C36000, ASTM B16	600
			2227-21	2227-21	FC Brass, UNS C36000, ASTM B16	600

Service Request # 2000358

**ABSA**  
SAFETY CODES ACT - PROVINCE OF ALBERTA  
REGISTRATION OF FITTINGS  
REGISTRATION NO. **0H15882.2**  
DWG. NO. or CAT. NO. **MVE4D SER Rev A**  
TYPE OF FITTINGS **1.5" Manifold**  
**JUN 16 2017** INITIALS **Keith Rudolf**  
Date **KEITH RUDOLF, P.Eng.**  
DESIGN SURVEY ENGINEER