



To:	TSSA	From:	Janet Townsend
Company:	Engineered Controls International, LLC.	Phone:	416-747-4291
Pages:	8	Location:	Toronto
Our File:	ANR-4436	Date:	April 18, 2017

Your File: 2019468

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-0H19101.56.

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



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 **Engineered Controls Int'l/Elon** in the **County** of **Alamance, NC**

the **16th** day of **December** AD 20 **16**

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-OH19101.56

Registered by:

A. BANWATT

Dated:

APRIL 12 2017

NOTE: This registration expires on:

JAN 18 2027

PV 09553 (06/16)

**CERTIFIED
TRUE COPY**

Date: **Jan 16/17**

Signature: **[Signature]**

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

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

My commission expires **8/31/2021**

REGISTERED

CRN: **CSA-OH19101.56**

Registration Process administered by
CSA Group per CSA B51

See attachment as the scope of registration.



REGISTERED



CRN: CSA-OH19101.56

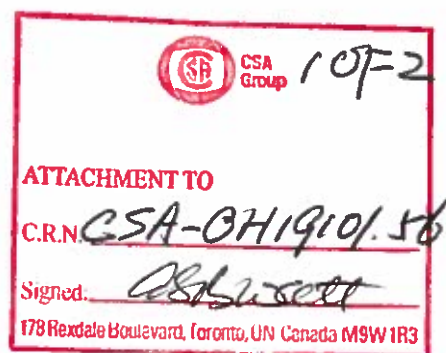
Registration Process administered by
CSA Group per CSA B51

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

Signed: Aswett

Date: 12 April, 2017

Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	MVE4D SER	Manifold	450154-S	450154-S	Stainless Steel Pipe, ASTM A249, TP316L	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-S	450059-S	Stainless Steel Pipe, ASTM A249, TP316L	600
			450151-S	450151-S	Stainless Steel Pipe, ASTM A249, TP316L	600
			1337CS- 22 SER	1337C-22 B	Stainless Steel Pipe, ASTM A269, TP316L	600
			1337-53S	1337-53S	Stainless Steel Pipe, ASTM A269, TP316L	600
			1337BS-22 SER	1337BS-22B	Stainless Steel Pipe, ASTM A312, TP316L	600
			1337B-62AS	1337B-62AS	Stainless Steel Pipe, ASTM A249, TP316L	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
			1337CS-22C	1337CS-22C	Stainless Steel Pipe, ASTM A269, TP316L	600



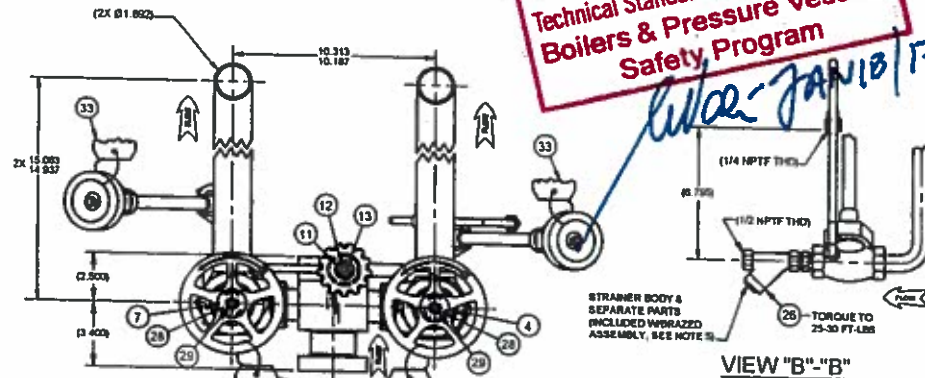
THIS IS PART OF
CRN 0419101.5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program

Walter JAN 13/17

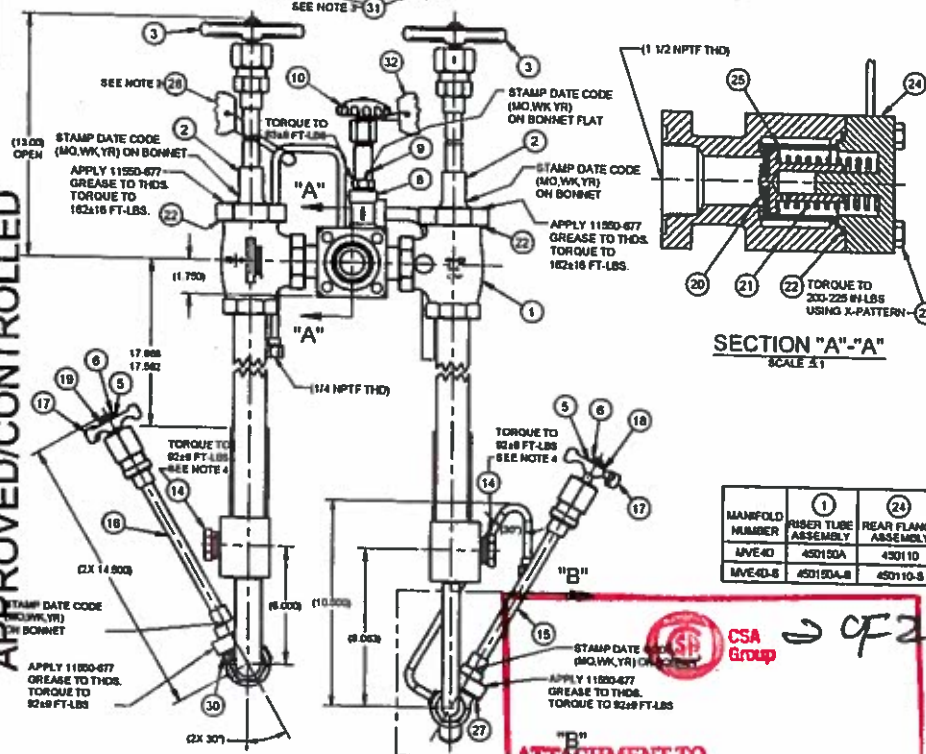
REV	DATE	DESCRIPTION
A	2012-238, 5-18-12	ISSUED

NOTES:

- CLEAN ALL COMPONENTS PER B-11550-400 OXYGEN SERVICE. INCLUDE OXYGEN CLEAN INFO IN OR ON PACKAGING. SEE RESPECTIVE ASSEMBLY DRAWINGS FOR DETAILS. ASSEMBLE & TEST IN CLEAN AREA.
- INK STAMP "11550" IN TORQUE BOX OF (1) TORQUE TAG AND ATTACH TO RISER TUBE ASSEMBLY.
- WRAP THREADS WITH 11550-544 (PTFE TAPE) COMPOUND AND ASSEMBLE INTO CROSS.
- LUBRICATE GASKET WITH LIGHT COATING OF 11550-677 GREASE. ASSEMBLE STRAINER SCREEN & CAP.
- TEST PER 8400-100.
- INSTALL CLOSURES ON ALL OPENINGS.
- PACK IN POLYBAG AND ATTACH TO ASSEMBLY.
- SEAL PRODUCT IN POLYBAG AND INCLUDE OXYGEN CLEAN INFORMATION IN OR ON BAG.
- DIMENSIONS REQUIRED TO BE INSPECTED ARE NOTED WITH TOLERANCES.
- B-8404-4 SEAT DISC ASSEMBLY (#38) TO BE USED WITH B-8404-KTU UPPER ASSEMBLY-UNTESTED KIT (#15).
- B-8412-9 SEAT DISC ASSEMBLY (#39) TO BE USED WITH BKA8412-KTU UPPER ASSEMBLY-UNTESTED KIT (#2).
- B-8403-7 SEAT DISC ASSEMBLY (#37) TO BE USED WITH B-8403-KTU UPPER ASSEMBLY-UNTESTED KIT (#16).



VIEW "B"-"B"



SECTION "A"-"A"

SCALE 1:1

MANIFOLD NUMBER	1	24
RISER TUBE ASSEMBLY	450150A	450110
REAR FLANGE ASSEMBLY	450150A-B	450110-S



ATTACHMENT TO

CRN **CSA-0419101.5**

Signed: *[Signature]*
 178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

ITEM	QTY	DESCRIPTION	REVISION
28	2	SEAT DISC ASSEMBLY (NOT SHOWN) SEE NOTE 13	B-8412-9
30	1	SEAT DISC ASSEMBLY (NOT SHOWN) SEE NOTE 11	B-8404-4
37	1	SEAT DISC ASSEMBLY (NOT SHOWN) SEE NOTE 13	B-8403-7
39	2	CAP SCREW (NOT SHOWN) SEE NOTE 8	TCV800-7
38	2	LOCK WASHER (NOT SHOWN) SEE NOTE 8	TCV800-9
34	2	WASHER (NOT SHOWN) SEE NOTE 8	TCV800-9
28	2	TAB, TORQUE (11550)	B-8403-99C
28	1	TAB, TORQUE (840-1100)	B-8403-99A
21	2	TAB, TORQUE (BLANK)	B-8403-99
39	1	GASKET	B-8403-1
38	2	LOCKWASHER	7018-1200
38	2	WASHER	400007
37	1	GASKET	400100-44
38	1	GASKET	400078-05
38	1	STRAINER	400008
34	1	REAR FLANGE ASSEMBLY	SEE TABLE
28	4	CAP SCREW	400040
38	8	GASKET	B-8403-99
21	1	SPRING	400040
28	1	PISTON ASSEMBLY	400047
18	1	TAB-HOW-11 PB OUTLET	11573-000
18	1	TAB-HOW-9 PB INLET	11573-000
17	2	HANDWHEEL - GREEN	2007-180P
16	1	UPPER ASSEMBLY - UNTESTED SEE NOTE 13	B-8403-KTU
16	1	UPPER ASSEMBLY - UNTESTED SEE NOTE 11	B-8404-KTU
14	2	PLUG	8007
13	1	NUT	400009
12	1	WASHER	400009
11	1	TAB-HOW-7 PB DRAIN	11573-000
10	1	HANDWHEEL - BLUE	8000-300
9	1	UPPER ASSEMBLY - UNTESTED	1000-100P-KTU
8	1	GASKET	B-8403-99
7	1	TAB-HOW-6 TOP FILL	11573-011
6	2	LOCKWASHER	7000A-1200
5	2	WASHER	400009
4	1	TAB-HOW-5 BOTTOM FILL	11573-010
3	2	HANDWHEEL - BLUE	7000-187P
3	2	UPPER ASSEMBLY - UNTESTED SEE NOTE 13	BKA8412-KTU
1	1	BRASS BODY	SEE TABLE

ITEM	QTY	DESCRIPTION	REVISION
TICKLE	5-18-12		
N LEE	7-24-12		
K.SMITH	7-24-12		
D.GENTILE	7-25-12		

ENGINEERED CONTROLS INTERNATIONAL, LLC	PART NUMBER
R800	R800 CRYO-FLOW
MANIFOLD 1 1/2" FILL	
MVE4D SER	C



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.