



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

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

May 08, 2018

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

**Service Request Type:** BPV-Fitting Registration  
**Service Request No.:** 2044316  
**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.:** 0C20335.5  
**Main Design No.:** Dwg. No. BK9453FAB Rev. G, Valve 3/8" c/w 0.625" tube ends  
**Expiry Date:** 08-May-2028

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

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,

  
Mark Valcic P. Eng.  
Engineer Specialist BPV  
Tel.: 416-734-3494  
Fax: 416-231-1626  
Email: [mvalcic@tssa.org](mailto:mvalcic@tssa.org)



Technical Standards and Safety Authority  
 345 Carlingview Drive  
 Toronto, Ontario M9W 6N9  
 Customer Service: 1.877.682.8772  
 Fax: 416.231.6183  
 www.tssa.org



REASSIGNED  
 TO MARK  
 MAY 3/18  
 # 2044316

**National Design Registration**  
**Application for a CRN**  
 Technical Standards and Safety Act  
 Boilers and Pressure Vessels Regulation

<b>Date of Application (mm/dd/yyyy):</b> 3/30/2018	<b>Expedited Service (Ontario Only)</b> <input type="checkbox"/> Yes (form attached) <input checked="" type="checkbox"/> No	<b>Service Request Number: (For office use only)</b> 2044316
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**Please indicate the type of design for National Service:**  
 Pressure Vessel  Boiler  Fitting

Existing CRN: \_\_\_\_\_  
 (if applicable)

<b>Section A: Submitter (Legal Company Name)</b>	<b>Section B: Invoicee</b> Same as: <input checked="" type="checkbox"/> A <input type="checkbox"/> C <input type="checkbox"/> D
Company Name: ENGINEERED CONTROLS INTERNATIONAL, LLC.	Company Name:
Address: 100 REGO DRIVE	Address:
City/Town: ELON Province/State: NC	City/Town: Province/State:
Postal/Zip Code: 27244 Country: USA	Postal/Zip Code: Country:
Telephone: 336-446-7707	Telephone:
Contact Name: CHAD THOMAS	Contact Name:
E-mail: cthomas@regoproducts.com	E-mail:
Job No./Reference:	Purchase Order No.:
Drawing/Catalog No.:	
Account/Customer Number:	Account/Customer Number
<b>Section C: Owner of Design/ CRN</b> Same as: <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> D	<b>Section D: Manufacturer</b> Same as: <input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C
Company Name:	Company Name:
Address:	Address:
City/Town: Province/State:	City/Town: Province/State:
Postal/Zip Code: Country:	Postal/Zip Code: Country:
Telephone:	Telephone:
Contact Name:	Contact Name:
E-mail:	E-mail:
Acct/Cust No.:	Acct/Cust No.:

**Kindly select the province registration is required:**  
 For renewals or additions to registrations where registration was obtained outside of Ontario first, in order to keep that registration number, please apply to the original registering province first, then proceed to apply with national registration with TSSA. If you proceed with national registration at TSSA first, we will need to issue a new registration number.

<input checked="" type="checkbox"/> Ontario	<input checked="" type="checkbox"/> Saskatchewan	<input checked="" type="checkbox"/> New Brunswick	<input checked="" type="checkbox"/> Newfoundland and Labrador
<input checked="" type="checkbox"/> British Columbia	<input checked="" type="checkbox"/> Manitoba	<input checked="" type="checkbox"/> Nova Scotia	<input checked="" type="checkbox"/> Yukon
<input checked="" type="checkbox"/> Alberta	<input checked="" type="checkbox"/> Quebec	<input checked="" type="checkbox"/> Prince Edward Island	<input checked="" type="checkbox"/> Northwest Territories
			<input checked="" type="checkbox"/> Nunavat

Return Mail to:  A  B  C  D  Call for Pick up at Head Office

**Optional Courier Collect:**  
 (Completed ON Reg. Only)

DHL  FEDEX  PUROLATOR  UPS

Acct No.: \_\_\_\_\_

**REGISTRATION NUMBER: (For Office Use Only)**  
 0C20335.5



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



## 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 336-449-7707  
(Plant Address) (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)

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 - BK9453FAB  
(drawings, calculations, test reports, etc.)

Declared before me at Alamance County in the State of North Carolina  
 the 20th day of April AD 2018  
 Jennifer Versage  
 Notary Public  
 Rockingham County  
 North Carolina  
 My Commission Expires 03/05/2023

Commissioner for Oaths:  
Jennifer Versage Watson  
(Printed name)  
  
(Signature)

(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 'C'

CRN: 0C20335.5  
 Registered by: MANU VALCIC, P.ENG  
 Dated: MAY 8, 2018  
 NOTE: This registration expires on: MAY 8, 2028

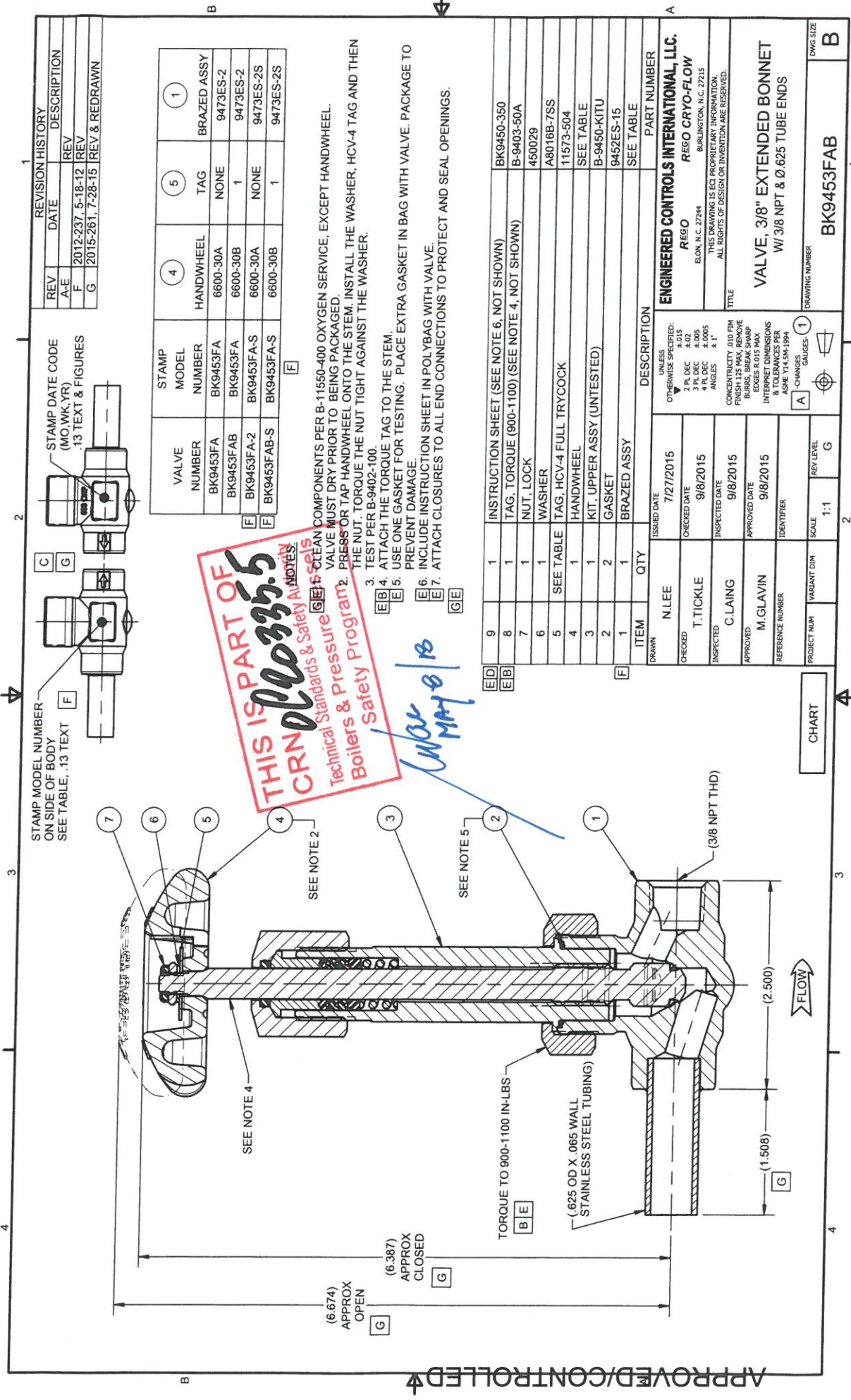
Technical Standards and Safety Authority      Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N. 0C20335.5

Signed: Manu Valcic

Date: MAY 8, 2018



STAMP MODEL NUMBER ON SIDE OF BODY SEE TABLE, .13 TEXT

STAMP DATE CODE (MO, WK, YR) .13 TEXT & FIGURES

REV	DATE	DESCRIPTION
A-E		
F	2012-237, 5-18-12	REV
G	2015-261, 7-28-15	REV & REDRAWN

VALVE NUMBER	STAMP MODEL NUMBER	HANDWHEEL TAG	BRAZED ASSY
BK9453FA	BK9453FA	NONE	9473ES-2
BK9453FAB	BK9453FA	6600-30A	9473ES-2
BK9453FA-2	BK9453FA-S	6600-30B	9473ES-2S
BK9453FAB-S	BK9453FA-S	6600-30B	9473ES-2S

**THIS IS PART OF CRN 0100335.5**  
**Technical Standards & Safety Analysis**  
**Boilers & Pressure Safety Program**

UNLESS OTHERWISE SPECIFIED:  
 1. P.A. DEC 4.0  
 2. P.A. DEC 4.0  
 3. P.A. DEC 4.005  
 4. P.A. DEC 4.0005  
 ANGLES 4:1

CONCENTRICITY .010 FIM  
 FINISH .125 MAX REMOVE BURRS  
 EDGES .015 MAX  
 INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5M-1994

1. CHANGES GAUGES

1. INSTRUCTION SHEET (SEE NOTE 6, NOT SHOWN) BK9450-350  
 2. TAG, TORQUE (900-1100) (SEE NOTE 4, NOT SHOWN) B-9403-50A  
 3. NUT, LOCK 450029  
 4. WASHER A8016B-7SS  
 5. SEE TABLE TAG: HCV-4 FULL TRYCOCK 11573-504  
 6. HANDWHEEL SEE TABLE  
 7. KIT, UPPER ASSY (UNTESTED) B-9450-KITU  
 8. GASKET 9452ES-15  
 9. BRAZED ASSY SEE TABLE

1. CLEAN COMPONENTS PER B-11550-400 OXYGEN SERVICE, EXCEPT HANDWHEEL. VALVE MUST DRY PRIOR TO BEING PACKAGED.  
 2. PRESSOR TAP HANDWHEEL ONTO THE STEM. INSTALL THE WASHER, HCV-4 TAG AND THEN THE NUT. TORQUE THE NUT TIGHT AGAINST THE WASHER.  
 3. TEST PER B-9402-100.  
 4. ATTACH THE TORQUE TAG TO THE STEM.  
 5. USE ONE GASKET FOR TESTING. PLACE EXTRA GASKET IN BAG WITH VALVE. PACKAGE TO PREVENT DAMAGE.  
 6. INCLUDE INSTRUCTION SHEET IN POLYBAG WITH VALVE.  
 7. ATTACH CLOSURES TO ALL END CONNECTIONS TO PROTECT AND SEAL OPENINGS.

*WMS MAY 6/15*

ITEM	QTY	DESCRIPTION	PART NUMBER
9	1	INSTRUCTION SHEET (SEE NOTE 6, NOT SHOWN)	BK9450-350
8	1	TAG, TORQUE (900-1100) (SEE NOTE 4, NOT SHOWN)	B-9403-50A
7	1	NUT, LOCK	450029
6	1	WASHER	A8016B-7SS
5	1	SEE TABLE TAG: HCV-4 FULL TRYCOCK	11573-504
4	1	HANDWHEEL	SEE TABLE
3	1	KIT, UPPER ASSY (UNTESTED)	B-9450-KITU
2	2	GASKET	9452ES-15
1	1	BRAZED ASSY	SEE TABLE

**ENGINEERED CONTROLS INTERNATIONAL, LLC.**  
**REGO**  
 ELON, N.C. 2744  
 BURLINGTON, N.C. 27215

THIS DRAWING IS EC PROPRIETARY INFORMATION  
 ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.

TITLE  
**VALVE, 3/8" EXTENDED BONNET**  
 W/ 3/8 NPT & Ø.625 TUBE ENDS

DRAWING NUMBER  
**BK9453FAB**

DWG. SIZE  
**B**

CHART

APPROVED/CONTROLLED