



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel.: 416 734 3300
Fax: 416 231 1626
Toll Free: 1 877 682 8772

www.tssa.org

January 12, 2017

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

Service Request Type: BPV-Fitting Registration

Service Request No.: 2000498

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.: 0H19079.5

Main Design No.: Dwg. No. BK9416-SQ3 Rev. B, 2" Globe Valve c/w 2" Tube Inlet & Flange Outlet
Expiry Date: 12-Jan-2027

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. 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 BPV
Tel.: 416-734-3494
Fax: 416-231-1626
Email: mvalcic@tssa.org



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
(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

☐ 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 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 Inc/Elon in the County of Alamance, NC
the 19th day of December AD 2016

Commissioner for Oaths:
Marisa E. Elliott
(Printed name)
Marisa E. Elliott
(Signature)

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 HI

CRN: MARK VALCIC
Registered by: MARK VALCIC
Dated: JAN 12, 2017

NOTE: This registration expires on: JAN 12, 2017
NOTE: DWG. NO. BK9416-503 GLOBE VALVE
C/W 2" TUBE INLET & FLANGED OUTLET.
JAN 12, 2017

MARISA E. ELLIOTT
NOTARY PUBLIC
ALAMANCE COUNTY
NORTH CAROLINA
my commission expires 8/31/2021

Technical Standards and Safety Authority
Pressure Vessels Safety Program
REGISTERED
OH19079.5
C.R.N.: Mark Valcic
Date: JAN 12, 2017

Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	BK9416-SQ3	Globe Valve	B-9416PU-1	B-9416PU-1C	Bronze Cast Alloy, UNS C92200, ASTM B61	600
			B-009416-22SP4	B-009416-22SP4	Stainless Steel Pipe, ASTM A249, TP304L	600
			450073	450073	Stainless Steel Pipe, ASTM A249, TP304L	600
			B-009416-22SP3	B-009416-22SP3	Stainless Steel Pipe, ASTM A312, TP304L	600
			222X16-22J	222X16-22J	Stainless Steel Pipe, ASTM A249, TP304L	600



W. K. L. JAN 12/17

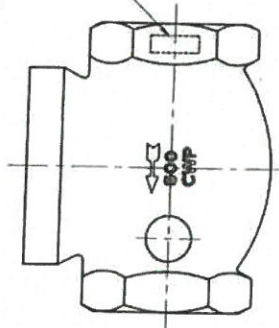
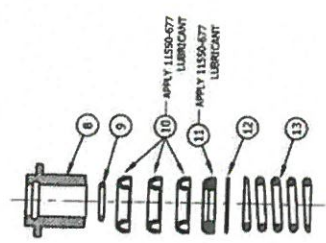
THIS IS PART OF
CRN 0119079.5
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

Under your 12/17

REV	DATE	DESCRIPTION	ISSUED	REV
A	11-20-09			
B	2012-11-13			

NOTES

- CLEAN ALL COMPONENTS PER B-11550-400 FOR OXYGEN SERVICE JUST PRIOR TO ASSEMBLY.
- ATTACH LABEL TO BONNET AND TUBE ASSEMBLY. ALIGN THE BOTTOM OF THE LABEL WITH THE HEX SHELVE ON THE BONNET AND TUBE ASSEMBLY. PRESSING THE LABEL TO THE TUBES.
- INSTALL THE PACKING AS SHOWN ON THE STEM IN THE UPPER BONNET. APPLY 11550-288 (LOTTIE 240) COMPOUND TO BONNET THREADS. INSTALL THE BONNET NUT AND SCREW IT DOWN TO THE TOP OF THE LABEL.
- INSTALL THE TOP-WORKS ONTO THE BODY AND APPLY 400-450 IN-LBS TORQUE TO THE BONNET BOLTS USING AN X-PATTERN.
- PRESS OR TAP THE HANDWHEEL ONTO THE STEM TO SHOULDERS. INSTALL THE WASHER AND THEN THE LOCKNUT ONTO THE STEM. TORQUE THE NUT TIGHT AGAINST THE WASHER.
- TEST PER B-2402-100.
- INK STAMP "437" IN THE TORQUE TAG. ATTACH THE TAG TO THE HANDWHEEL.
- USE ONE GASKET FOR TESTING. PLACE EXTRA GASKET IN BAG WITH VALVE.
- INCLUDE INSTRUCTION SHEET IN POLY BAG WITH VALVE.
- SEAL PRODUCT IN POLY BAG AFTER IT HAS DRIED FOR NO LESS THAN 24 HOURS, UNLESS REQUESTED BY MARKETING TO SHIP PRIOR TO DRYING. INCLUDE OXYGEN CLEAN INFORMATION IN OR ON BAG.
- REFERENCE CHART'S DRAWING B-1418C314.



VIEW A-A
 1/2" X SCALE

ITEM	QTY	TITLE	PART NUMBER
1	1	T. TOGGLE	B-1030-08
2	1	NUT	1/4" UNF 1/2" L
3	1	WASHER	1/4" UNF 1/2" L
4	1	WASHER	1/4" UNF 1/2" L
5	1	WASHER	1/4" UNF 1/2" L
6	1	WASHER	1/4" UNF 1/2" L
7	1	WASHER	1/4" UNF 1/2" L
8	1	WASHER	1/4" UNF 1/2" L
9	1	WASHER	1/4" UNF 1/2" L
10	1	WASHER	1/4" UNF 1/2" L
11	1	WASHER	1/4" UNF 1/2" L
12	1	WASHER	1/4" UNF 1/2" L
13	1	WASHER	1/4" UNF 1/2" L
14	1	WASHER	1/4" UNF 1/2" L
15	1	WASHER	1/4" UNF 1/2" L
16	1	WASHER	1/4" UNF 1/2" L
17	1	WASHER	1/4" UNF 1/2" L
18	1	WASHER	1/4" UNF 1/2" L
19	1	WASHER	1/4" UNF 1/2" L

ITEM	QTY	TITLE	PART NUMBER
1	1	T. TOGGLE	B-1030-08
2	1	NUT	1/4" UNF 1/2" L
3	1	WASHER	1/4" UNF 1/2" L
4	1	WASHER	1/4" UNF 1/2" L
5	1	WASHER	1/4" UNF 1/2" L
6	1	WASHER	1/4" UNF 1/2" L
7	1	WASHER	1/4" UNF 1/2" L
8	1	WASHER	1/4" UNF 1/2" L
9	1	WASHER	1/4" UNF 1/2" L
10	1	WASHER	1/4" UNF 1/2" L
11	1	WASHER	1/4" UNF 1/2" L
12	1	WASHER	1/4" UNF 1/2" L
13	1	WASHER	1/4" UNF 1/2" L
14	1	WASHER	1/4" UNF 1/2" L
15	1	WASHER	1/4" UNF 1/2" L
16	1	WASHER	1/4" UNF 1/2" L
17	1	WASHER	1/4" UNF 1/2" L
18	1	WASHER	1/4" UNF 1/2" L
19	1	WASHER	1/4" UNF 1/2" L

ITEM	QTY	TITLE	PART NUMBER
1	1	T. TOGGLE	B-1030-08
2	1	NUT	1/4" UNF 1/2" L
3	1	WASHER	1/4" UNF 1/2" L
4	1	WASHER	1/4" UNF 1/2" L
5	1	WASHER	1/4" UNF 1/2" L
6	1	WASHER	1/4" UNF 1/2" L
7	1	WASHER	1/4" UNF 1/2" L
8	1	WASHER	1/4" UNF 1/2" L
9	1	WASHER	1/4" UNF 1/2" L
10	1	WASHER	1/4" UNF 1/2" L
11	1	WASHER	1/4" UNF 1/2" L
12	1	WASHER	1/4" UNF 1/2" L
13	1	WASHER	1/4" UNF 1/2" L
14	1	WASHER	1/4" UNF 1/2" L
15	1	WASHER	1/4" UNF 1/2" L
16	1	WASHER	1/4" UNF 1/2" L
17	1	WASHER	1/4" UNF 1/2" L
18	1	WASHER	1/4" UNF 1/2" L
19	1	WASHER	1/4" UNF 1/2" L

APPROVED/CONTROLLED

CE 11375-02
 CHART