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January 10, 2017

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

Service Request Type: BPV-Fitting Registration

Service Request No.: 2000430

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.: 0H19070.5

Main Design No.: Dwg. No. BK9412-SQ2 Rev. C, Globe Valve c/w 1-1/2" Inlet & Outlet.

Expiry Date: 10-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

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, Inc.** in the **County** of **Alamance**

the **16th** day of **December** AD 20 **14**

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 eligible for registration in Category **"H"**

CRN:

Registered by:

Dated:

Boilers and Pressure Vessels Safety Program

REGISTERED
OH19070.5

Fuller

Jan. 10, 2017

NOTE: This registration expires on:

Jan 10, 2017

DATE: 01/10/2017

NOTE: DWG No. BKG412-SQ1 GLOBE VALVE CW INLET/OUTLET PIPES. SEE THE ATTACHMENT FOR THE SCOPE OF THE F.I.T.

MARISA E. ELLIOTT
NOTARY PUBLIC
ALAMANCE COUNTY
NORTH CAROLINA

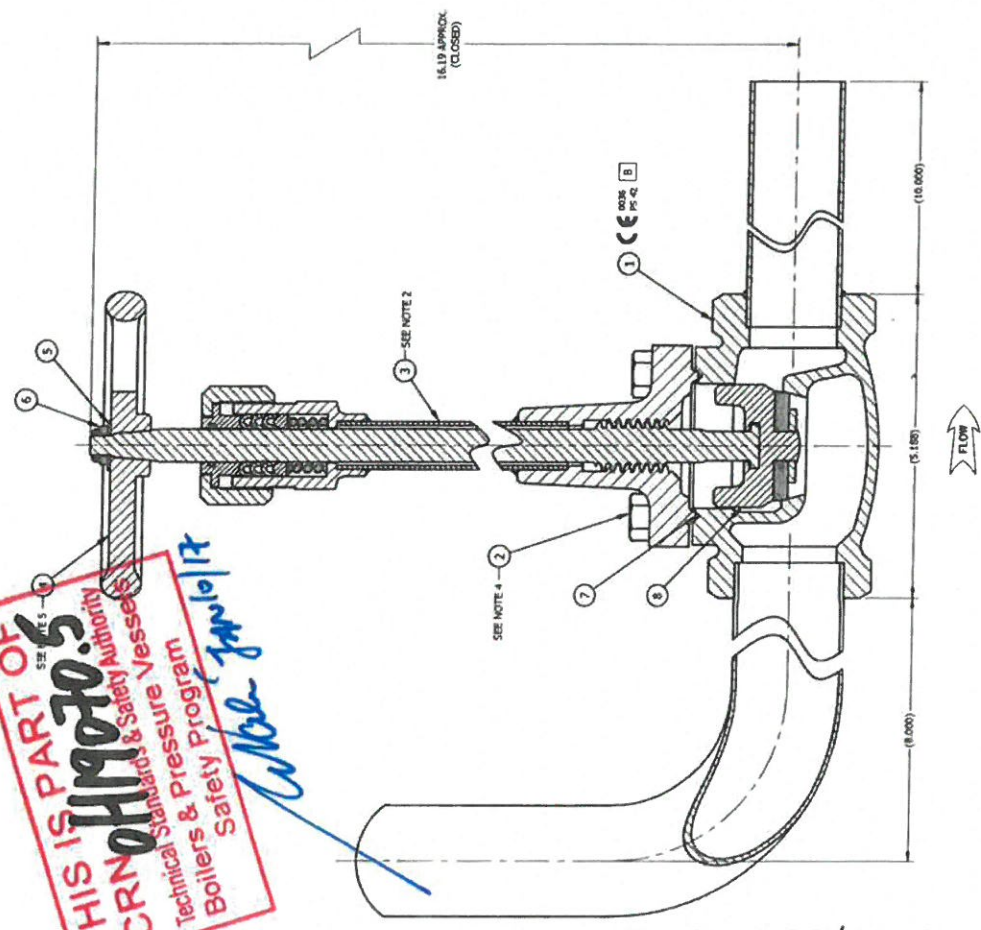
my commission expires
8/31/2021

Category	System Number	Description	Drawing Number	Body Number	Body Material	Service Pressure
H	BK9412-SQ2	Globe Valve	B-9409-1C	B-9412PU-1	Bronze Cast Alloy, UNS C92200, ASTM B61	600
			B-9412-22P2	B-9412-22P2	Stainless Steel Pipe, ASTM A312, TP304L	600
			B-9412-22P1	B-9412-22P1	Copper Tubing, UNS C12200, ASTM B743/B88	600
			B-9410-16SS	B-9410-16SS	Stainless Steel Pipe, ASTM A249, TP304L	600

THIS IS PART OF
CRN 0419070.5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program
Under Jan 10/17

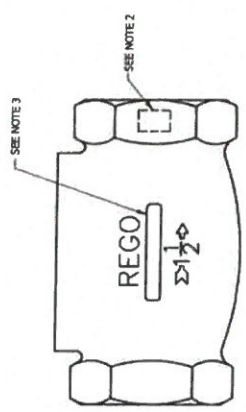
THIS IS PART OF
CRN 0119070-5
 Technical Standards & Safety Authority
 Boilers & Pressure Vessels
 Safety Program

Wheeler Jan 10 17



APPROVED/CONTROLLED

REV	DATE	DESCRIPTION
1	01/18/10	ISSUED
2	01/18/10	REVISED
3	01/18/10	REVISED
4	01/18/10	REVISED



- NOTES:**
- CLEAN BODY ASSEMBLY & GASKET PER B-1150-400. CLEAN UPPER ASSEMBLY PER SPECIFICATIONS ON COUPLER.
 - STAMP DATE CODE (NO. 1000) AND "VCC" "VCC" 1/18/10 (SEE 11/20/10) ON BODY AS SHOWN PRIOR TO ASSEMBLY. ALSO STAMP DATE CODE (NO. 1000) ON FLANGE OF THE BONNET.
 - USING .187 FLANGES, STAMP "B9412-SQ2" ON PAD OF BODY PRIOR TO ASSEMBLY.
 - INSTALL UPPER ASSEMBLY ONTO THE BODY AND APPLY 400-450 IN-LBS OF TORQUE TO THE BONNET NUTS USING 1/2" SOCKET.
 - PASS 100 IN-LBS TORQUE TO THE STEM TO SHOULDERS. INSTALL THE WASHER AND THEN THE LOCKWASHER ONTO THE STEM. TORQUE THE NUT TIGHT AGAINST THE WASHER.
 - TEST PER B-9402-100.
 - THE STAMP "405" IN THE TORQUE BOX OF THE TORQUE TAG ATTACH THE TAG TO THE HANDWHEEL.
 - THE VALVE GASKET IN SEPARATE POLY BAG AND PACKAGE WITH VALVE.
 - VALVE MUST BE OPENED IMMEDIATELY AFTER IT HAS BEEN OPENED FOR NO LESS THAN 24 HOURS. UNLESS INSTRUCTIONS BY MANUFACTURER TO OPEN IMMEDIATELY.
 - INCLUDE OXYGEN CLEAN INFORMATION IN OR ON PACKAGING.

ITEM	QTY	TITLE	PART NUMBER
10	1	INSTRUCTION SHEET (NOT SHOWN) SEE NOTE 10	B-9400-350
9	1	TORQUE TAG (NOT SHOWN) SEE NOTE 7	B-9403-50
8	1	SEAT DISC ASSY	B-9412-6
7	2	GASKET SEE NOTE 8	B-8511-67
6	1	LOCKWASHER	7513-1355
5	1	WASHER	490027
4	1	HANDWHEEL - GREEN	7500-1ETOP
3	1	UPPER ASSEMBLY - UNTESTED	B-9412-MTU
2	4	BOLT	B-9405-2155
1	1	BODY ASSEMBLY	B-9412-5152

REGO CRYO-FLOW PRODUCTS

THIS DRAWING IS THE PROPERTY OF REGO CRYO-FLOW PRODUCTS. ALL RIGHTS OF INVENTION ARE RESERVED.

89-1/2 SCH 5S INLET X 89-1/2 TUBE OUTLET
 VALVE, GLOBE

DATE: 01/18/10
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]