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July 25, 2017

SCOTT ISLIP  
ROUND ENGINEERING INC  
10 SEGWUN RD  
WATERDOWN ON L8B 0K6  
CA

Service Request Type.: BPV-National BC  
Service Request No.: 2105824  
Your Reference No.: R-0766 MASON EXPANSION COMPENSATORS  
Registered to.: MASON INDUSTRIES INC

Dear SCOTT ISLIP,

Please find enclosed the original response from BC, registered under the CRN No.: 0D19128.51.

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,

Joanna Karpinski  
Tel: 416-734-3377  
Fax: 416-231-6183  
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505 - 6th Street, Suite 200  
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TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO ON M9W 6N9

**Date:** July 4, 2017  
**Account #:** 35231  
**Journal #:** 68389  
**Our File #:** 5617738

**Attn:** TANYA FRANCIS

**Re:** Application for Design Registration

The design, as detailed in your, TSSA SR# 2105824, for a Fitting is accepted for registration as follows:

**Registered To:** MASON INDUSTRIES INC      **CRN:** 0D19128.51

**MDMT:** -20 deg F

**MAWT:** 400 deg F

**Drawing #:** Report R-0766A, R0766B

**Drawing Revision:** 0

**Conditions Of Registration:**

Expansion Compensators.

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

**Reviewer's Notes:**

Registration addition of Expansion Joints EDFFL (Flanged), ECMN (MNPT), ECWN (Butweld) & ECCPS (Sweat-End) per attached scope sheet. As required by CSA B51 4.2.1, this registration expires on January 30, 2027. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

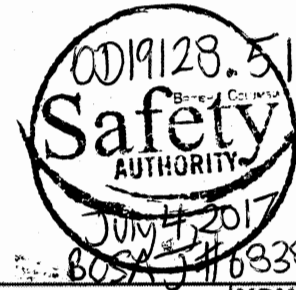
SHARON PETERS

boiler.designregistration@safetyauthority.ca  
Design Administration

**cc:**



**MASON INDUSTRIES INC.**  
 350 RABRO DR.  
 HAUPPAUGE, NY  
 11788



16-May-17

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**SCOPE OF CRN REGISTRATION**

Product Description	Mason Model	Design Code	Size Range	MAWP	End Connection	Material Specification	MDMT	Design Report
Expansion Compensator with Fixed and Floating Flanges	ECFFL	ASME B31.3 EJMA 10TH Edition	3/4" thru 4"	200 psig at 400F	150 Lb. RF Flange (Note 1)	ASTM A53-E/B C.Steel ASTM A36 C.Steel ASTM A105 C.Steel ASTM A240-304/304L S.Steel UNS S30400/S30403	-20F	R-0766A
Expansion Compensator with MNPT End Connections	ECMN	ASME B31.3 EJMA 10TH Edition	3/4" thru 1-1/2"	150 psig at 366F	MNPT (Note 2)			
			2" thru 4"	200 psig at 400F				
Expansion Compensator with Butt weld End Connections	ECWN	ASME B31.3 EJMA 10TH Edition	3/4" thru 4"	200 psig at 400F	Butt weld (Note 3)			
Expansion Compensator with Female Sweat End Connections	ECCPS	ASME B31.3 EJMA 10TH Edition	3/4" thru 3"	150 psig at 400F (Note 4)	Female Sweat End	ASTM B88 Copper UNS C12200 ASTM A269-304/304L S.Steel ASTM A240-304/304L S.Steel UNS S30400/S30403 (Note 5)	-20F	R-0766B
			Size 4"	145 psig at 400F (Note 4)				

**Note 1:** Flanges with a pressure class greater than class 150 Lb. may be used but in all cases the pressure-temperature ratings are limited to the values stated in the "MAWP" column above.

**Note 2:** For sizes 3/4" thru 1-1/2" when supplied with Sch. 40 ends with MNPT pipe threads the maximum operating conditions are limited to 150 psig at 366F. When sizes 3/4" thru 1-1/2" are supplied with Sch. 80 ends with MNPT pipe threads the MAWP may be increased to 200 psig at 400F.

**Note 3:** Minimum butt weld pipe schedule to be as follows:

- Sizes 3/4" thru 4": Schedule 40 per ASME B36.10M

**Note 4:** The safe pressure-temperature rating of a solder-joint piping system is dependent, not only on the valve, fitting and tubing strength, but also on the composition of the solder used for the joints. Pressure-temperature limitations for solder joints made with typical commercial solders are given in Table II-4 of ASME B16.22. It shall be the responsibility of the user to select a solder composition that is compatible with the service conditions, as well as to assure the adequacy of workmanship employed in making the joints.

**Note 5:** In accordance with ASME B16.22 copper UNS C10200, C12000, C23000 may be substituted for copper UNS C12200.

