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

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. 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
Email: jkarpinski@tssa.org

Safety Authority

505 - 6th Street, Suite 200
New Westminster, BC V3L 0E1

Toll Free: 1-866-566-SAFE
Fax: (778) 396 - 2064
www.safetyauthority.ca

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

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 Buttweld End Connections	ECWN	ASME B31.3 EJMA 10TH Edition	3/4" thru 4"	200 psig at 400F	Buttweld **(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 buttweld 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.