Régie du bâtiment Québec

Direction des équipements sous pression

Montréal, 26 novembre 2024.

CECYLIA GARBACZ
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ON
CANADA M9W 6N9

Fabricant : MEC CRYO, LLC.
4430 E ADAMO DR, UNIT 305
TAMPA FL
USA 33605

Numéro de dossier : 943186
Numéro(s) de dessin(s) : Scope of registration R-2059 Rev 0

Objet : Enregistrement des plans et devis – Confirmation de l'enregistrement

Bonjour,

Nous vous informons que votre demande d'enregistrement de plans et devis a été traitée et que cette conception a été enregistrée sous le numéro d'enregistrement canadien (NEC\CRN) suivant : **0G25411.56.**

Nous portons votre attention sur certaines exigences réglementaires concernant les installations sous pression, ainsi que des codes et normes qui y sont associés :

- Le fabricant doit maintenir un programme de contrôle de la qualité valide pour fabriquer un équipement selon ce NEC;
- Ce numéro d'enregistrement demeure valide tant et aussi longtemps que les paramètres de conception demeurent inchangés. Dans le cas d'accessoires, l'enregistrement est valide pour une durée de 10 ans à partir de la date d'enregistrement. Les documents de conception doivent alors être resoumis pour validation;
- Le fabricant doit nous transmettre une copie de la *Déclaration de conformité du constructeur (Manufacturer's Data Report)* pour chaque appareil ou chaudière fabriqué selon ce NEC dans les 30 jours suivant la signature de cette déclaration;
- Le numéro de dessin enregistré et le numéro de révision doivent être indiqués sur la déclaration de conformité pour les équipements fabriqués selon ce NEC.

Le présent avis d'approbation ne dégage pas le fabricant de ses responsabilités quant à la conception ou à la construction des équipements ou d'accessoires fabriqués selon un NEC.

Salutations distinguées,

Bureau d'expertise et d'homologation en équipements sous pression

Montréal
255, boul. Crémazie Est, 2ième étage
Montréal (Québec) H2M 1L5
Téléphone : 514 873-2546
Sans frais : 1 866 262-2084
enregistrementdesplans@rbq.gouv.qc.ca
www.rbq.gouv.qc.ca

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Montréal, le 26 novembre 2024.

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Manufacturer : MEC CRYO, LLC.
4430 E ADAMO DR, UNIT 305
TAMPA FL
USA 33605

OUR REFERENCE : 943186
Design number : Scope of registration R-2059 Rev 0

Subject: Design registration confirmation

Hi,

We wish to inform you that your design registration application has been evaluated and that it was registered under the following Canadian Registration Number (CRN): **0G25411.56.**

The following is a reminder of your obligations regarding certain requirements of the regulation respecting pressure vessels, and the referenced codes and standards:

- The manufacturer must maintain a valid quality control program to manufacture equipment according to the CRN.
- The CRN remains valid as long as there are no changes to the design calculations that might affect the pressure boundary. The design registration of fittings expires 10 years after acceptance. It must, therefore, be resubmitted for validation.
- The manufacturer shall submit a copy of the *Manufacturer's Data Report* to us for each boiler or pressure vessel manufactured according to this CRN within 30 days following the signing of this report.
- The drawing number and the revision number registered under this CRN must be indicated on the *Manufacturer's Data Report* for equipment manufactured according to the CRN.

This notice of approval does not relieve the manufacturer of their responsibilities with respect to the design or fabrication of equipment manufactured according to this CRN.

Yours sincerely,

Bureau d'expertise et d'homologation en équipements sous pression

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255, boul. Crémazie Est, 2ième étage
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Régie du bâtiment Québec

Statutory Declaration Registration of Fittings

Building Act (B-1.1)
Regulation respecting pressure vessels (B-1.1, r. 6.1)
Boiler, pressure vessel, and pressure piping code (CSA B51)

This declaration must be filled out and sent to the Régie du bâtiment du Québec (RBQ) by pressure fitting manufacturers when they make an application registration for fittings.

For more information on the application registration for fittings, consult the www.rbq.gouv.qc.ca/fittings-pv.

1. Fittings to register

List the fittings included in this declaration and that you wish to register.

N°	Description	Additional information (detail, calculations or approval sheets)
1	SAFETY VALVE	
2	SCOPE OF CRN,	
3	NB LISTING	
4		
5	COMPANY LOGO - SEE RIGHT	

2. Declaration of the person in charge

The person in charge is someone in a position of authority, such as a vice-president, a plant manager or a chief engineer.

2.1 Design

I, the undersigned, James C. Zuck (Name of the person in charge), Director (Title of the person in charge),

from MEC CRYO, LLC (Company's name), located at 4430 E. Adamo Dr., Tampa, Florida, 33605, United States (Plant's address)

hereby declare that the above-mentioned fittings and subject to the Regulation respecting pressure installations:

☐ comply with the requirements of the ANSI/ASME codes as to their dimensions, identification, material and purpose

or

☒ are not covered by the ANSI/ASME codes, but are in compliance with ASME Section VIII-1 (Name of code or standard)

code or standard and are designed according to the best current engineering practice, as proven by the enclosed approval report.

2.2 Manufacturing quality control

I further declare that the manufacture of these fittings is controlled by a quality control program that complies with the requirements of the following code: ASME UV (Name of code), and has been verified by ASME (Authorized agency).

Signature of the person in charge:	Date (yyyy-mm-dd): 2024-04-26

James Zuck

3. Declaration of commissioner for oaths

I certify that this declaration has been administered before me, at Marshall, Michigan (Location), on 2024-04-26 (Date (yyyy-mm-dd)).

Signature of commissioner for oaths: Pamela Willison

Date (yyyy-mm-dd): 2024-04-26

Stamp the seal:

PAMELA WILLISON
Notary Public, State of Michigan
County of Branch
My Commission Expires 07-03-2024
Acting in the County of Calhoun

4. Registration confirmation (for RBQ's use only)

As far as I know, this application complies with the requirements of the Act and with standard CSA B51, Part 1, section 4.2, and is accepted for registration in the class _____.

This registration expires in ten (10) years after the date of registration indicated above, and it must be validated again after this period.

Canadian registration number (CRN):	Registration date (yyyy-mm-dd):

Enregistré au Québec
0G25411.56
Régie du bâtiment Québec
25/11/2024
Revue par la RBQ

Documents to attach

Any application registration for fittings must include these documents:

- Statutory Declaration Registration of Fittings (2 copies)
- Detailed calculations or burst test report (1 copy)
- Detailed technical drawings or catalogues (2 copies)
- Example of the manufacturer's marking (1 copy)
- Proof that a valid and approved quality control program has been implemented (1 copy)
- Form Application for design registration (1 copy)

Sending the form

This declaration is necessary to submit an application for design registration. Design registration applications must be sent by email only to enregistrementdesplans@rbq.gouv.qc.ca.

Documents must be in PDF format and in separate files.

MEC CRYO, LLC.
4430 EAST ADAMO DRIVE
TAMPA, FLORIDA
33605, USA

Enregistré au Québec
0G25411.56
Régie du bâtiment Québec
25/11/2024
Revue par la RBQ

31-May-24

SCOPE OF CRN REGISTRATION

Product Description	Model	Design Code		Code Stamp
Pilot Relief Valves	ME910	ASME Section VIII Division 1		ASME UV
Material Specifications	**Process Connection Inlet/Outlet**	**Operating Ranges (Note 1,2,3)** Set Pressure	MAWT	**Report Number / Drawings**
Body Material: Ductile Iron ASME SA-395 60-40-18 Bonnet Material: Ductile Iron ASME SA-395 60-40-18, Steel ASME SA-216 WCB, Stainless Steel ASME SA-351 CF8M Pilot Block Material: Stainless Steel ASME SA-351 CF8M	NPS 4 ASME B16.42 Flanged Class 300 Inlet x NPS 4 FNPT Outlet	250-265 psig	150°F	Report R-2059 Revision 0, Drawings ME910P/X-ASME Rev. A, ME910X-901 Rev. A, ME910-902-X Rev. B, ME910PK/X-X-ASME Rev. A

Note 1: MAWT = Maximum Allowable Working Temperature.

Note 2: The pressure-temperature ratings shown are the maximum CRN pressure-temperature ratings. In all cases the pressure-temperature ratings may be limited by the seat and seal materials. Please consult MEC CRYO, LLC.

Note 3: For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

Note 4: Valves shall be marked with the ASME Certification mark and UV Designator along with the Canadian Registration Number (CRN).

Note 5: See attached copy of National Board Listing.

MEC Cryo, LLC. (LSH)

Nameplate Abbreviation: MEC

Tampa, FL 33605United States

This Company Manufactures or Assembles:

Design Name: ME910 NBCert # 47067

Manufacturer/Assembler	Designators	Expiration Date
Manufacturer	UV	02/05/2030

Design Type

[Pilot Operated Pressure Relief Valve] ME910
HolderDesignation:
Capacity Tests: Sec. UV at National Board Testing Lab on June 6, 2023
Method of Establishing Relieving Capacity: Flow Capacity, Slope
Certified Value:140.70 SCFM/PSIA; (alternate medium): 0.000 ; Certification Provisions: Cert. @ 20% OP
Media - Test: Air/Gas; Certified: Gas
Set Pressure Definition: Start-to-Leak
Blowdown Characteristics: Fixed
Flow Area Configuration: Curtain Area
Designed by: MEC Cryo, LLC. {LSH}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
4 NPS	4 NPS	14.94 in²	4.38 in	2 in	250-265 psi	Air	UV

Design Name: MEV250 NBCert # 47045

Manufacturer/Assembler	Designators	Expiration Date
Manufacturer	UV	01/04/2030

Design Type

[Safety Relief Valve] MEV250
Capacity Tests: Sec. UV at National Board Testing Lab on December 15, 2022
Method of Establishing Relieving Capacity: Flow Capacity, Slope
Certified Value:31.200 SCFM/PSIA
Media - Test: Air/Gas; Certified: Gas
Set Pressure Definition: Start-to-Leak
Blowdown Characteristics: Fixed
Flow Area Configuration: Curtain Area
Designed by: MEC Cryo, LLC. {LSH}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Designator
2.5 NPS		2.112 in²	1.64 in	0.44 in	303-358 psi	Air	UV

Design Name: MEV300 NBCert # 47056

Manufacturer/Assembler	Designators	Expiration Date
Manufacturer	UV	01/03/2029