

November 13, 2024

Attention: Cecylia Garbacz
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO, ON M9W 6N9

The design submission, Tracking Number 2024-05940, Web Portal Number 2024-S4219, originally received on October 04, 2024 was surveyed and accepted for registration as follows:

CRN : 0G25411.52 **Accepted on:** November 13, 2024
Reg Type: NEW DESIGN **Expiry Date:** August 06, 2034
Drawing No. : Scope of CRN Registration dated on 2024-05-31, Report R-2059 Rev 0 As Noted
Fitting type: Pilot Operated Pressure Relief Valve ME910
Design registered in the name of : MEC CRYO LLC

The registration is conditional on your compliance with the following notes:

- This registration applies to the devices covered by NB certificates #47067.
- Per the submitter's confirmation, it is our understanding that construction and materials meet the requirements of Section XIII.

As indicated on AB-41 Statutory Declaration or AB-351 Declaration of Conformity form and submitted documentation, the code of construction is SECTION VIII Division 1.

- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration or AB-351 Declaration of Conformity as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.
- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration or AB-351 Declaration of Conformity form.
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency, and maintains a valid Certification of Authorization Permit if required by the jurisdiction where manufacturing takes place, until that date.
- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (587) 943-8741 or fax (403) 291-4545 or e-mail Zhangl@absa.ca.

Sincerely,



ZHANG, LILI, P. Eng.
DOP Cert. No. D00010626

STATUTORY DECLARATION
Registration of Fittings
Single or Multiple Fitting Designs within one Fitting Category

I, James C. Zuck, Director
(name of applicant) (position title) (must be in a position of authority)
of MEC CRYO, LLC
(name of manufacturer)
located at 4430 E Adamo Dr., Tampa, Florida, 33605, United States
(plant address)



do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (select only one)

- comply with the requirements of ASME Section VIII-1 LATEST EDITION -LZ which specifies the dimensions, (title of recognized North American Standard) materials of construction, pressure/temperature ratings and identification marking of the fittings, or
- are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the (title of code of construction or other applicable document) attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the identification marking of the fittings.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified as described in the below Table as being suitable for the manufacturing of these fittings to the stated standard, regulation, code, guideline or other applicable document. The fittings covered by the declaration for which I seek registration are as provided in the Supplementary Sheet(s) attached.

Quality Program Verification and Manufacturing Sites

A copy of the Quality Certificate from each manufacturing site must be included

Item #	Product Description, Model or Series	Quality Program	Scope of Certification	Expiry Date	Verifying Organization	Location(s) Plant Name and address
1.	Relief Valves	ASME UV	Manufacture of Pressure Relief Valves	2026-02-07	ASME	Tampa, Florida
2.						

In support of this application, the following information, calculations and/or test data are attached:

Scope of CRN, NB Listing

James Zuck 4/26/2024
(Signature of the Declarer) (Date)

DECLARED before me at Marshall in the State of Michigan
(city) (province, territory, or state)

this 26th day of April, 2024
(Month) (Year)

(print) Pamela Willison
(a Commissioner of Oaths or Notary Public)

(sign) Pamela Willison
(a Commissioner of Oaths or Notary Public)

07/03/24
(expiry date (mm/dd/yy))

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

Commissioner of Oaths / Notary Public in and for: Michigan
(province, territory, or state)

For ABSA Office Use Only:

NOTES: It is our understanding that the edition of code of construction is latest edition. - LZ

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Part 1, Clause 4.2, and is accepted for registration in Category G.

CRN: _____

Registered Date: _____

Expiry Date: 2034-08-06

Signature: _____
(Signature of the Administrator/SCO)

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline

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ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: CG25411. 52

See acceptance letter for conditions of registration.

Date: **2024-11-13** By: Lili Zhang

LILI ZHANG, P. Eng.
DOP: D00010626

This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

MEC CRYO, LLC.

4430 EAST ADAMO DRIVE
TAMPA, FLORIDA
33605, USA



31-May-24

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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)		Report Number / Drawings
		Set Pressure	MAWT	
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.

2024-05940



This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act

MEC Cryo, LLC. (LSH)

Nameplate Abbreviation: MEC

Tampa, FL 33605 United 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			
Holder Designation:			
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 in ²	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 in ²	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