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August 6, 2024

ROUND ENGINEERING INC  
10 SEGWUN RD  
WATERDOWN ON L8B 0K6

**Workorder Type:** Registration - Fitting(Conventional)  
**Workorder No:** 14373913  
**Your Reference No.:** R-2059  
**Registered to:** MEC CRYO, LLC.

Dear SCOTT ISLIP,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN : 0G25411.5  
Main Design No.: Scope of CRN Registration, Report R-2059 Rev 0  
Expiry Date: Aug 06, 2034

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 (There will be no hard copies for electronic submissions). 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](mailto: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,

Amir Hariri P.Eng.  
Engineer, BPV  
Tel. : +1 416-734-3461  
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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



## STATUTORY DECLARATION Registration of Fittings

I, JAMES C. ZUCK, DIRECTOR  
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of MEC CRYO, LLC.  
(Name of Manufacturer)

Located at 4430 E ADAMO DR., TAMPA, FLORIDA, 33605, UNITED STATES 813-644-3764  
(Plant Address) (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 SECTION VIII-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 ASME UV \_\_\_\_\_ which has been verified by the following authority, ASME \_\_\_\_\_.

The items covered by this declaration, for which I seek registration, are category G - SAFETY RELIEF VALVES type fittings. In support of this application, the following information and/or test data are attached as follows:

SCOPE OF CRN REGISTRATION, NB LISTING  
(drawings, calculations, test reports, etc.)

Declared before me at Marshall in the State of Michigan  
 the 26<sup>th</sup> day of April AD 2024.

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

Commissioner for Oaths:  
Pamela Willison  
(Printed name)  
Pamela Willison  
(Signature)

James Zuck  
(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 accepted for registration in Category G.

CRN: \_\_\_\_\_

Registered by: \_\_\_\_\_

Dated: \_\_\_\_\_

NOTE: This registration expires on: August 6, 2034

Technical Standards and Safety Authority  
 Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0G25411.5

Signed: [Signature]

Date: August 6, 2024.

\*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.

See registration letter for any terms and conditions for this registration.  
 August 6, 2024. TSSA

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



THIS IS PART OF CRN  
 0G25411.5  
 Technical Standards and Safety Authority  
 Boilers and Pressure Vessels Safety  
 Program

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
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	Set Pressure 250-265 psig	MAWT 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 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 <sup>2</sup>	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 <sup>2</sup>	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