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January 20, 2022

ROUND ENGINEERING INC  
10 SEGWUN RD  
WATERDOWN ON L8B 0K6

**Workorder Type:** Registration - Fitting(Conventional)

**Workorder No:** 8052657

**Your Reference No.:** R-1411G - CRN#0G22625.5 - TRANSFER OF CRN OWNERSHIP FROM LESLIE CONTROLS TO MEC Cryo, LLC

**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 : 0G22625.5ADD1

Main Design No.: Safety Relief Valves Models RXSO and RXSO-S per Scope of Registration

Expiry Date: Aug 18, 2030

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

**Note:** CRN transfer from Leslie Controls, Inc. to MEC Cryo, LLC

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,

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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 Exeber in the State of Michigan  
 the 2nd day of November AD 2021.

Commissioner for Oaths:

Pamela Willison  
(Printed name)  
Pamela Willison  
(Signature)

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

[Signature]  
(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: Aug. 18, 2030**

Technical Standards and Safety Authority  
 Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0G22625.5ADD1

Signed: James C. Zuck

Date: January 20, 2022.

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



**SCOPE OF CRN REGISTRATION**

Product Description	Model	Design Code	Code Stamp	Material Specifications	Size Range	End Connection Inlet/Outlet	MAWP at MAWT (Note 1,2,3)	Report Number
ASME Safety Relief Valves	RXSO	ASME Section VIII Division 1	ASME UV	Brass ASME SB283 C37700	1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2"	MNPT x FNPT	400 psig at 200°F	R-1141
ASME Safety Relief Valves	RXSO-S	ASME Section VIII Division 1	ASME UV	Stainless Steel ASME SA351-CF8M, SA479-316	1/2", 3/4", 1", 1-1/4"	MNPT x FNPT	400 psig at 400°F	R-1141

**Note 1:** MAWP = Maximum Allowable Working Pressure, 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:** See attached copy of National Board Listing.

**THIS IS PART OF CRN**  
 0G22625.5ADD1  
 Technical Standards and Safety Authority  
 Boilers and Pressure Vessels Safety  
 Program

**MEC Cryo, LLC. (LSH)**

Nameplate Abbreviation: MEC

Tampa, FL 33605 United States

**This Company Manufactures or Assembles:**

Design Name: RXSO and RXSO-S NBCert # 47001

Manufacturer/Assembler	Code Sections	Expiration Date
Manufacturer	VIII Div. 1	08/04/2027

**Design Type**

[Safety Relief Valve] RXSO and RXSO-S  
 Capacity Tests: Sec. VIII Div. 1 at Louisiana State University on April 17, 1980  
 Method of Establishing Relieving Capacity: Flow Capacity, K  
 Certified Value: 0.604 Unitless  
 Media - Test: Air/Gas; Certified: Air, Gas  
 Set Pressure Definition: Pop  
 Blowdown Characteristics: Adjustable (Single Ring)  
 Designed by: MEC Cryo, LLC. {LSH}

Inlet Size	Outlet Size	Flow Area	Orifice [designator] dia.	Lift	Set Pressure Range	Media	Code Section
0.5-0.75 NPS	.75, 1 NPS	0.059 in <sup>2</sup>	0.75 in	0.025 in	15-300 psi	Air	VIII Div. 1
0.5-0.75 NPS	.75, 1 NPS	0.118 in <sup>2</sup>	0.75 in	0.05 in	15-400 psi	Air	VIII Div. 1
0.5-1 NPS	1, 1.25 NPS	0.204 in <sup>2</sup>	1 in	0.065 in	15-400 psi	Air	VIII Div. 1
0.75-1.25 NPS	1.25, 1.5 NPS	0.326 in <sup>2</sup>	1.25 in	0.083 in	15-400 psi	Air	VIII Div. 1
1-1.5 NPS	1.5, 2 NPS	0.424 in <sup>2</sup>	1.5 in	0.09 in	15-400 psi	Air	VIII Div. 1
1.25-2 NPS	2, 2.5 NPS	0.628 in <sup>2</sup>	2 in	0.1 in	15-400 psi	Air	VIII Div. 1
2.5 NPS	3 NPS	0.864 in <sup>2</sup>	2.5 in	0.11 in	15-400 psi	Air	VIII Div. 1
3 NPS	3, 4 NPS	1.131 in <sup>2</sup>	3 in	0.12 in	15-400 psi	Air	VIII Div. 1