

August 17, 2018

Attention: Scott Islip
ROUND ENGINEERING INC
10 SEGWUN ROAD
WATERDOWN, ON L8B 0K6

Email: scott.islip@roundeng.com

The design submission, tracking number 2018-04943, originally received on July 30, 2018 was surveyed and accepted for registration as follows:

CRN : 0H20461.52

Accepted on: August 17, 2018

Reg Type: NEW DESIGN

Expiry Date: June 18, 2028

Drawing No. : SCOPE OF CRN REGISTRATION Rev 08MAY18

Fitting type: ASSEMBLY

Design registered in the name of : CRYOVATION LLC

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

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is ASME B31.3.

- *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 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 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.

Enclosed are stamped prints for your reference.

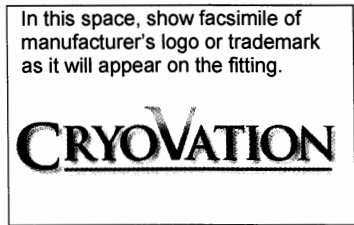
If you have any question don't hesitate to contact me by phone at (780) 433-0281 or fax (780) 437-7787 or e-mail liu@absa.ca.

Sincerely,



LIU, XING, P. Eng.
DOP Cert. No. D00008861

STATUTORY DECLARATION Registration of Fittings



I, ROBERT L. LEONARD, DIRECTOR OF QUALITY CONTROL (name of applicant) (position title) of CRYOVATION, LLC (name of manufacturer) located at 9B MARY WAY, HAINESPORT, NJ, 08036 (plant address)

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

- comply with the requirements of ASME B31.3 which specifies the dimensions, 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 attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the following authority, TUV RHEINLAND as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are

CATEGORY H - MANIFOLDS (brief description of fittings)

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

SCOPE OF CRN, DRAWINGS, CALCULATIONS

JOEL IRIZARRY NOTARY PUBLIC OF NEW JERSEY My Commission Expires June 9, 2020

DECLARED before me at Hainesport in the Burlington County of New Jersey (city) (province or state)

this 9th day of MAY, 2018 (Month) (Year)

(print) Joel Irizarry (a Commissioner of Oaths or Notary Public)

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

ROBERT L. LEONARD (signature of applicant)

For ABSA Office Use Only:

NOTES:

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

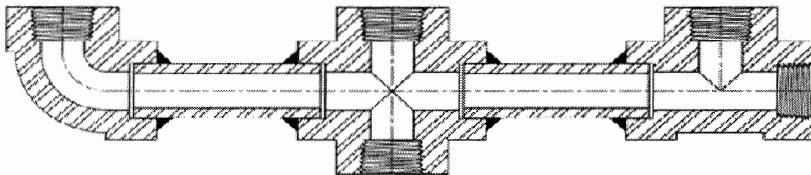
Registration Number: OH20461.52 (Signature of the Administrator/SCO)

Date Registered: 2018-08-17 Expiry Date: 2028-06-18

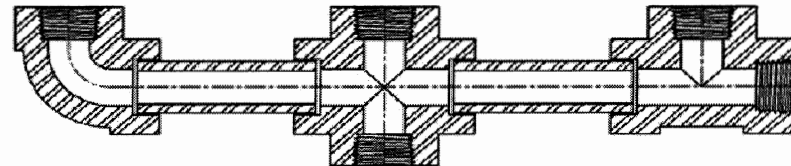
The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline.

SCOPE OF CRN REGISTRATION

Product Description	Dwg. No.	Design Code	Size NPS x Thickness	Material	MAWP at MAWT	MDMT (F)	Report
Manifold Assembly	014-SPEC-SS	ASME B31.3, 2016	1/2" Sch. 40	ASTM A312-304/304L, ASTM A182-304/304L (Note 2)	3000 psig at 120F	20F	R-0885A
Manifold Assembly	014-SPEC-SS	ASME B31.3, 2016	1/2" Sch. 80	ASTM A312-304/304L, ASTM A182-304/304L (Note 2)	6000 psig at 120F	20F	R-0885A
Manifold Assembly	014-SPEC-BRASS	ASME B31.3, 2016	0.840" OD x 0.20" Wall	ASTM B927 UNS C26000 Brass (Note 3)	3000 psig at 120F	20F	R-0885B
Manifold Assembly	014-SPEC-BRASS	ASME B31.3, 2016	1.05" OD x 0.23" Wall	ASTM B927 UNS C26000 Brass (Note 3)	3000 psig at 120F	20F	R-0885B



STAINLESS STEEL



BRASS

Note 1: Per CSA Table 1 Note (2)(B) the total volume of any configured manifold assembly shall not exceed 1.5 cubic feet in volume.

Note 2: Type 316 SS may substitute for Type 304 SS.

Note 3: Other Brass, Copper and Copper Alloy grades may be used as long as they have a ASME B31.3 Table A-1 allowable stress value equal to or larger than 8000 psi at 120F.

ASDA	
SAFETY CONSULTANT - PROVINCE OF ALBERTA	
REGISTRATION OF FITTINGS	
REGISTRATION NO.	0H20461.52
DWG. NO. or CRN NO.	Scope of CRN Reg
TYPE OF FITTINGS	Assembly
Date	2018-08-17
INITIALS	[Signature]
XING LIU, P.Eng. DESIGN SURVEY ENGINEER	