

9410 - 20 Ave N.W. Edmonton, Alberta, Canada T6N 0A4

Tel: (780) 437-9100 / Fax: (780) 437-7787

December 05, 2025

Attention: Scott Islip

ROUND ENGINEERING INC

10 SEGWUN ROAD

WATERDOWN, ON L8B 0K6

The design submission, Tracking Number 2025-06796, Web Portal Number 2025-S5479, originally received on October 21, 2025 was surveyed and accepted for registration as follows:

CRN: 0H25774.2 **Accepted on:** December 05, 2025

Reg Type: NEW DESIGN Expiry Date: December 05, 2035

Document No. 001-A-08772, 000-A-08772 shts 1-4 Rev C, C

Fitting type: Cryogenic Bayonet Fittings

Design registered in the name of : ACME CRYOGENICS INC

DescriptionMAWPDesign TemperatureMDMTInternal Pressure1827kPa66 °C-269 °C

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

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

Litelany

2025-06796 Page 1 of 1





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

ı, Dav	d M. Rakos	mar	In this space, show facsimile of manufacturer's logo or trademar as it will appear on the fitting.								
of Acm	(name of applicant) e Cryogenics, Inc.		(position title) (must b	e in a position of a	authority)	ACME					
-		(name o	of manufacturer)		C	RYOGENICS					
located	located at 2801 Mitchell Avenue, Allentown, PA, 18103, USA										
			nt address)		0-1-1-0-1	A - 4					
	mnly declare that the only one)	nitings listed	nereunder, which a	re subject to tr	ie Salety Codes	ACI					
	comply with the requirements of 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	e provisions o	of a recognized Nor			herefore					
	manufactured to com	ply with ASMI	E B31.3 <u>, ASME B3</u>	1.12 d el	eted - LZ as suppo	ted by the					
		(title of	code of construction or c	other applicable do							
	attached data which i	dentifies the o	dimensions, materia	als of construct	ion, pressure/ter	nperature ratings					
	and the basis for such	n ratings, and	the identification m	arking of the fi	ttings.						
I furthe	declare that the mar	nufacture of th	nese fittings is contr	olled by a qua	lity control progra	am which has					
been ve	erified as described in	the below Ta	able as being suitab	le for the man	ufacturing of the	se fittings to the					
stated	standard, regulation, o	code, guidelin	e or other applicabl	le document. 7	he fittings cover	ed by the					
	tion for which I seek i										
acciara	tion for which i seek i	cgistiation ai	c as provided in the	Couppiemente	iry Oricci(s) attac	inca.					
Quality	Program Verification	on and Manu	facturing Sites								
А сору	of the Quality Certific	ate from each	n manufacturing site	must be inclu	ıded						
Item #	Product Description, Model or Series	Quality Program	Scope of Certification	Expiry Date	Verifying Organization	Location(s) Plant Name and address					
1.	Cryogenic Bayonet Fittings	CSA B51	Category C,D, E,H	2030-05-01	TUV Rheinlan	Allentown, PA					
2.											

2025-06796

Tracking	#.
Hacking	#





In support of this application, the following information, calculations and/or test data are attached: Drawing 001-A-08772, Rev. A, Scope of Registration, Reports DECLARED before me at Allentown in the State of Pensylvania (city) or state) Commonwealth of Pennsylvania - Notary Seal SARAH PAINTER - Notary Public Lenigh County My Commission Expires August 10, 2026 Commission Number 1424224 (expiry date (mm/dd/yy)) Commissioner of Oaths / Notary Public in and for: Commonwealth of Pennsylvania (province, territory, or state) 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, Part 1, Clause 4.2, and is accepted for registration in Category						
CRN:						
Registered Date	; <u></u>					
Expiry Date:	2035-12-05					
Signature:	(Signature of the Administrator/SC	CO)				

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 2025-06796

ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: 0H25774.2

See acceptance letter for conditions of registration.

Date: 2025-12-05 By: Litelan

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.

Pressure Equipment Discipline

DWG. NO. **001-A-08772**

THIS DRAWING AND THE INFORMATION OR DATA CONTAINED HEREIN ARE CONSIDERED PROPRIETARY TO ACME CRYOGENICS, INC. AND IS NOT TO BE COPIED, REPRODUCED, DUPLICATED, OR DISCLOSED TO OTHERS IN WHOLE OR PART WITHOUT THE PRIOR WRITTEN CONSENT OF ACME CRYOGENICS, INC. THE DRAWING SHOULD BE RETURNED AS SOON AS IT HAS SERVED THE PURPOSES FOR WHICH IT IS FURNISHED AND WHILE IN THE POSSESSION OF THE RECIPIENT, SHOULD BE PROPERLY SAFEGUARDED AGAINST DISCLOSURE TO ANYONE EXCEPT EMPLOYEES WHO REQUIRE IT FOR WORK OR A JOB. THIS RESTRICTION SHALL NOT APPLY TO INFORMATION OR DATA CONTAINED HEREIN WHICH AS AVAILABLE TO THE PUBLIC GENERALLY.

PRODUCT DESCRIPTION	PART NO. (MALE ASSY)	PART NO. (FEMALE ASSY)	PRIMARY PRESSURE RETAINING COMPONENTS	ASME / ANSI DESIGN STANDARD	SIZE OR SIZE RANGE	DESIGN PRESSURE @ MAX TEMPERATURE	MDMT	ACTUAL WALL THICKNESS VS MIN REQUIRED	END CONNECTION & SIZE RANGE	ASME / ASTM MATERIAL SPECIFICATION	REF CALCULATION	DRAWING NO.
MODEL DS (Acme) BAYONET 250# LH2/LHE LENGTH	C-01870 C-01870-316 C-01870JKTA C-01870JKTA-316	C-01871 C-01871-316 C-01871JKTA C-01871JKTA-316	FLANGE; TUBE; PIPE; NOSE PIECE; GASKET; BOLTS	ASME B31.3	NPS 1½ X 3	265 PSI (250 PSIG+FV) @150 °F	-452 °F	Tube: 0.044 / 0.019 Pipe: 0.109 / 0.015	NPS 1½ BWE	SA-182 F 304/304L (316/316L); SA-213 TP 304/304L (316/316L); SA-312 TP 304/304L (316/316L); SA-479 304/304L (316/316L); FLEX GRAPHITE / 304SS (316SS); SA-320 B8, CL.1	E240027-1.02	000-A-08772
MODEL DS (Acme) BAYONET 250# LH2/LHE LENGTH	C-01817 C-01817-316 C-01817JKTA C-01817JKTA-316	C-01818 C-01818-316 C-01818JKTA C-01818JKTA-316	FLANGE; TUBE; PIPE; GASKET; BOLTS	ASME B31.3	NPS 1 X 2½	265 PSI (250 PSIG+FV) @150 °F	-452 °F	Tube: 0.035 / 0.014 Pipe: 0.109 / 0.010	NPS 1 BWE	SA-182 F 304/304L (316/316L); SA-213 TP 304/304L (316/316L); SA-312 TP 304/304L (316/316L); FLEX GRAPHITE / 304SS (316SS); SA-320 B8, CL.1	E240027-1.02	000-A-08772

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. BASE METAL AND WELD METAL DEPOSITS SHALL BE IMPACT TESTED IN ACCORDANCE WITH ASME B31.3, PARA. 323.2.2

	1		_	T	
UNLESS OTHERWISE SPECIFIED 1. THE FOLLOWING TOLERANCES APPLY: .XX: ± .01" .XXX: ± .005" FRACTIONS: ± 1/32" ANGLES: ± 0.5' 2. ALL DIMENSIONS ARE IN INCHES.				ORIC	SINAL
3. REMOVE ALL BURRS AND SHARP EDGES TO .015 MAX.				DESIGN BY DMR DRWN BY	DATE 02/17/2016
4. MACHINED SURFACES TO BE 125 MICRO-INCHES OR BETTER. 5. DO NOT SCALE DRAWING.				DMR CHECKED BY BL	05/01/2024 DATE 05/01/2024
	PRODUCT	NEXT ASS'Y	NO. REQ'D	APPROVED BY TJS	05/02/2024

	TITLE	\(\lambda \)	M		
7	REV.	DESC RIPTION	DATE	BY	APP'D.
	Α	INITIAL RELEASE - NPI0220	05/02/24	DMR	TJS
	В	DESIGN PRESSURE WAS 250 PSIG - ECN 10664	10/14/25	DMR	DMR
	С	SEE ECN 10768	11/12/25	DMR	TJS

SCOPE OF REGISTRATION CRN BAYONET ASSEMBLIES ACME DS 250# LH2/LHE REF: E240027-1 ACME CRYOGENICS

PART OF OPW | a DOVER COMPANY

DWG. NO. 001-A-08772

SCALE N/A WEIGHT N/A SHEET 1 OF 1 REV. C