

**REGISTRATION OF A PRESSURE FITTING DESIGN**

February 24, 2026

TSSA  
345 Carlingview Dr.  
Toronto, ON  
Canada  
M9W 6N9

**Attention: Tanya Francis**

**File Number: 104443**

**Re: Manufacturer: ACME Cryogenics, Inc**  
**Item: Cryogenic Bayonet**  
**Catalog or Drawing: Per Scope of Registration 001-A-08772 Rev. C & Drawing 000-A-08772 Rev. C**

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

**OH25774.23**

**Expiry Date: 2035-12-05**

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,



Athan Syrgiannis, P.Eng.

Codes and Standards Compliance

**Remarks:**

A valid quality control program must be maintained at the production facility for the fitting registration to remain valid until the expiry date.

Conditional upon compliance with the notes on the original ABSA registration.

**Statutory Declaration (Registration of Fittings)**

**TSK-1008**

**I. Declaration Information**

I, David M. Rakos  
Chief Engineer  
(company title, e.g. vice president, plant manager, chief engineer)  
 (must be in a position of authority in the manufacturing plant where the fitting is produced)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.



of: Acme Cryogenics, Inc.  
(name of manufacturer)

located at: 2801 Mitchell Avenue Allentown, PA (USA) 18103  
(Plant Address – Apt/Street) (City,Prov) (Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the **Saskatchewan Boiler and Pressure Vessel Act** (check one)

- 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 provisions of a recognized North American standard and are therefore manufactured to comply with ASME B31.3, ~~ASME B31.12~~ 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 manufacturer 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 manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Cryogenic Bayonet Fittings

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  
C

**II. Declaration**

DECLARED before me at Allentown In the State of Pennsylvania  
 this 28 day of may, 2024  
Sarah Painter (print name) [Signature] (Signature)  
[Signature] (Signature of Commissioner of Oaths)

**III. Office Use Only**

To the best of my knowledge and belief, the application meets the requirements of the **Boiler and Pressure Vessel Act** and CSA B51, Clause 4.2, and is accepted for registration in Category \_\_\_\_\_



**Technical  
Safety Authority  
of Saskatchewan**

Registration No. 0H25774.23  
 File No. 104443  
 Registered  
 Date: February 24, 2026  
 Expiry Date: December 5, 2035  
Codes & Standards Compliance Office

\_\_\_\_\_  
(Date Registered – MM DD YYYY)  
 (For the Chief Inspector)

\_\_\_\_\_  
(Expiry Date – MM DD YYYY)

**Commonwealth of Pennsylvania - Notary Seal**  
 SARAH PAINTER - Notary Public  
 Lehigh County  
 My Commission Expires August 10, 2026  
 Commission Number 1424224

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DWG. NO. 001-A-08772

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

REV.	DESCRIPTION	DATE	BY	APP'D.
C	SEE ECN 10768	11/12/25	DMR	TJS
B	DESIGN PRESSURE WAS 250 PSIG - ECN 10664	10/14/25	DMR	DMR
A	INITIAL RELEASE - NPI0220	05/02/24	DMR	TJS

<p>UNLESS OTHERWISE SPECIFIED</p> <ol style="list-style-type: none"> <li>THE FOLLOWING TOLERANCES APPLY: XX: ± .01" ,XXX: ± .005" FRACTIONS: ± 1/32" ANGLES: ± 0.5'</li> <li>ALL DIMENSIONS ARE IN INCHES.</li> <li>REMOVE ALL BURRS AND SHARP EDGES TO .015 MAX.</li> <li>MACHINED SURFACES TO BE 125 MICRO-INCHES OR BETTER.</li> <li>DO NOT SCALE DRAWING.</li> </ol>				<div style="border: 2px solid red; padding: 5px; font-weight: bold; color: red; font-size: 1.2em;">ORIGINAL</div>	
	DESIGN BY	DMR	DATE		02/17/2016
	DRWN BY	DMR	DATE		05/01/2024
	CHECKED BY	BL	DATE		05/01/2024
	APPROVED BY	TJS	DATE		05/02/2024
PRODUCT	NEXT ASS'Y	NO. REQ'D			

<p>TITLE</p> <p><b>SCOPE OF REGISTRATION</b></p> <p>CRN BAYONET ASSEMBLIES ACME DS 250# LH2/LHE REF: E240027-1</p>		 <b>ACME</b> CRYOGENICS PART OF OPW   a  company	
<p>SCALE N/A</p> <p>WEIGHT N/A</p>		<p>DWG. NO. <b>001-A-08772</b></p>	
<p>SHEET 1 OF 1</p>		<p>REV. C</p>	