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www.tssa.org

January 21, 2026

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)

Workorder No: 14897438

Your Reference No.: 0H25774.2 -ACME CRYOGENICS R-2172 - NATIONAL SERVICE

Registered to: ACME CRYOGENICS, INC.

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 : 0H25774.25

Main Design No.: 000-A-08772 Rev C, 001-A-08772 Rev C

Expiry Date: Dec 05, 2035

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

Note: Design registration completed under interprovincial agreement with jurisdictional check only.

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. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Ruiming You P,ENG
Engineer, BPV
Tel. : +1 416-734-3428
Email : ryou@tssa.org



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, David M. Rakos, Director of Quality and Engineering
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Acme Cryogenics, Inc.
(Name of Manufacturer)

Located at 2801 Mitchell Ave., Allentown, PA 18103, USA (Plant Address) (610) 791-7909 (Telephone No.) (610) 791-2837 (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

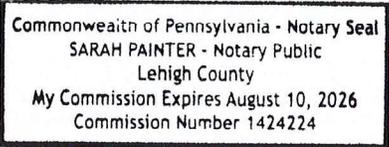
(Title of recognized North American Standard)
 which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with ASME B31.3, ~~ASME B31.12~~ 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 CSA B51 which has been verified by the following authority, TUV Rheinland.

The items covered by this declaration, for which I seek registration, are category "H" type fittings. In support of this application, the following information and/or test data are attached as follows:
Drawing 001-A-08772, Rev. A Scope of Registration, Reports
(drawings, calculations, test reports, etc.)

Declared before me at Allentown in the State of Pennsylvania
 the 28 day of May AD 2024.



Commissioner for Oaths:
Sarah Painter
(Printed name)

(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 _____.

Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0H25774.25

Signed:
 Date: January 21, 2026.

CRN: _____ This Document has been digitally signed and approved.
 Registered by: _____ The stamp size has been optimized for 11 x 17 documents.
 Dated: _____



NOTE: This registration expires on: Dec 05, 2035

See registration letter for any terms and conditions for this registration.
January 21, 2026.
TSSA

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.

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

THIS IS PART OF CRN
0H25774.25
 Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety Program

NOTES: (UNLESS OTHERWISE SPECIFIED)

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

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
REV.	DESCRIPTION	DATE	BY	APP'D.

UNLESS OTHERWISE SPECIFIED			
1. THE FOLLOWING TOLERANCES APPLY: XX: ±.01" ,XXX: ±.005" FRACTIONS: ± 1/32" ANGLES: ± 0.5°			
2. ALL DIMENSIONS ARE IN INCHES.			
3. REMOVE ALL BURRS AND SHARP EDGES TO .015 MAX.			
4. MACHINED SURFACES TO BE 125 MICRO-INCHES OR BETTER.			
5. DO NOT SCALE DRAWING.			
PRODUCT	NEXT ASSY	NO. REQ'D	

ORIGINAL

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

TITLE SCOPE OF REGISTRATION CRN BAYONET ASSEMBLIES ACME DS 250# LH2/LHE REF: E240027-1		 ACME CRYOGENICS PART OF OPW a DOVER company	
DWG. NO. <div style="font-size: 24px; font-weight: bold; text-align: center;">001-A-08772</div>			
SCALE	N/A	WEIGHT	N/A
SHEET		1 OF 1	
REV.		C	