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April 12, 2026

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 14983697
Your Reference No.: R-2282
Registered to: Taizhou Ailun Valve Co., Ltd.

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 : 0A26576.5

Main Design No.: Refrigeration fittings per Scope of CRN Registration Dated February 5, 2026

Expiry Date: Apr 12, 2036

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

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,

Zivko Gacevic , P. Eng.
Engineer, BPV
Tel. : +1 416-734-3429
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Technical Standards & Safety Authority
 345 Carlingview Drive
 Toronto, Ontario
 M9W6N9
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DECLARATION OF CONFORMITY REGISTRATION OF FITTINGS

FOR TSSA OFFICE USE ONLY

Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0A26576.5

Signed: *Heaven Liang*

Date: April 12, 2026

Expiry Date: Apr. 12, 2036

(Show facsimile of logo or trademark, as it will appear on the fitting as evidence of certification)



Declaration No.: (document nr. as issued by the manufacturer)

R-2282

Revision:

0

Manufacturer (Name and Address)

Taizhou Ailun Valve Co., Ltd., Xiaqiu Village, Qinggang Town, Yuhuan City, Zhejiang Province, 317606, China

***Table 1 Scope of Fitting Designs** See attached Scope of CRN Registration Document.

Item No.	Type / Model	Product Description	Material of Construction	MDMT	Rated Pressure		References: Catalog (pages) or Drawing(s)
					At Ambient Temperature	At Maximum Temperature	
						at	
						at	
						at	
						at	
						at	

****Table 2 Codes, Standards, Guidelines, and Other Applicable Documents**

Item No.	Title of Code(s), Standard(s), Guideline(s), or Other Applicable Document(s)	Edition / Revision	Item No.	Title of Code(s), Standard(s), Guideline(s), or Other Applicable Document(s)	Edition / Revision
1	ASME B31.5	2022	4		
2			5		
3			6		

*****Table 3 Quality Program Verification and Manufacturing Sites**

Item No.	Location(s) Plant Name and Address / Site(s)	Quality Program Certificate Number	Expiry Date	Verifying Organization
1	Zhejiang Province, 317606, China	BRC24Q10149ROS	April 2, 2027	Beijing ZHONGRUI Unite Certification Co., Ltd.
2				
3				

A copy of the Quality Certificate from each manufacturing site must be included

Remarks

(other relevant information)

As an official of the manufacturer with authority, and having responsibility for the conformity and regulatory compliance of the fittings, I hereby declare that the information and statements made in this declaration of conformity are true and accurate.

I declare, under our sole responsibility, that the design, construction, certification, and marking of the fitting(s) listed in Table 1*, are subject to a conformity assessment process and quality program that has been verified, as described in Table 3***.

I certify that the fittings (s) listed in Table 1* conform to: the provisions of the acts and regulations of the provinces and territories where the fitting(s) are registered, CSA B51, and the codes, standards, guidelines, or other applicable documents listed in Table 2**.

I further declare that there is a process in place for the retention of this declaration of conformity for not less than 10 years from the issuance of the Canadian Registration Number (CRN).

Signed for and on behalf of Taizhou Ailun Valve Co., Ltd. in the Yuhuan City of Zhejiang Province, China
(Manufacturer) (City) (State / Province, Country)

Heaven Liang, GM (General Manager) *梁合文* Feb. 10, 2026
(Name please print) (Function or Title) (Signature of Declarer) (Date)

TAIZHOU AILUN VALVE CO., LTD.

Xiaqiu Village, Qinggang Town,
Yuhuan City, Zhejiang Province,
317606, China



THIS IS PART OF CRN
0A26576.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

February 5, 2026

PAGE 1 OF 2

SCOPE OF CRN REGISTRATION

Product Description	Design Code	Body Material Specification	MDMT (°F / °C)	Report Number
Push Fit Refrigerant Fittings	ASME B31.5, 2022	Forging Brass ASTM B283 UNS C37700	- 40°F / - 40°C	R-2282 Rev. 0
Drawing and Fitting Type	Size	Part Number	MAWP at MAWT (psig at °F / barg at °C)	
Dwg. AL-101AC/R-CRN Rev. C Push Fit Coupling	1/4"	AL-41101AC/R	900 psig at 250°F / 62 barg at 121°C	
	3/8"	AL-83101AC/R	900 psig at 250°F / 62 barg at 121°C	
	1/2"	AL-21101AC/R	900 psig at 250°F / 62 barg at 121°C	
	5/8"	AL-85101AC/R	900 psig at 250°F / 62 barg at 121°C	
	3/4"	AL-43101AC/R	900 psig at 250°F / 62 barg at 121°C	
	7/8"	AL-87101AC/R	876 psig at 250°F / 60 barg at 121°C	
	1-1/8"	AL-18101AC/R	729 psig at 250°F / 50 barg at 121°C	
Dwg. AL-102AC/R-CRN Rev. C Push Fit Coupling	3/8" x 1/4"	AL-83102AC/R	900 psig at 250°F / 62 barg at 121°C	
	1/2" x 3/8"	AL-21102AC/R	900 psig at 250°F / 62 barg at 121°C	
	5/8" x 1/2"	AL-85102AC/R	900 psig at 250°F / 62 barg at 121°C	
Dwg. AL-103AC/R-CRN Rev. C Push Fit Adapter Coupling	1/4" x 7/16" UNF	AL-41103AC/R	900 psig at 250°F / 62 barg at 121°C	
	3/8" x 9/16" UNF	AL-83103AC/R	900 psig at 250°F / 62 barg at 121°C	
	1/2" x 3/4" UNF	AL-21103AC/R	900 psig at 250°F / 62 barg at 121°C	
	5/8" x 7/8" UNF	AL-85103AC/R	900 psig at 250°F / 62 barg at 121°C	
Dwg. AL-201AC/R-CRN Rev. C Push Fit Elbow	1/4"	AL-41201AC/R	900 psig at 250°F / 62 barg at 121°C	
	3/8"	AL-83201AC/R	900 psig at 250°F / 62 barg at 121°C	
	1/2"	AL-21201AC/R	900 psig at 250°F / 62 barg at 121°C	
	5/8"	AL-85201AC/R	900 psig at 250°F / 62 barg at 121°C	
	3/4"	AL-43201AC/R	900 psig at 250°F / 62 barg at 121°C	
	7/8"	AL-87201AC/R	876 psig at 250°F / 60 barg at 121°C	
	1-1/8"	AL-18201AC/R	729 psig at 250°F / 50 barg at 121°C	

TAIZHOU AILUN VALVE CO., LTD.

Xiaqiu Village, Qinggang Town,
Yuhuan City, Zhejiang Province,
317606, China



February 5, 2026

PAGE 2 OF 2

SCOPE OF CRN REGISTRATION

Note 1: MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature, MDMT = Minimum Design Metal Temperature.

Note 2: The pressure-temperature ratings shown are the maximum CRN pressure-temperature ratings. In all cases the MAWP may be limited by seal materials or other considerations.

Note 3: The pressure-temperature ratings shown are acceptable when the Refrigerant Fittings are installed on ASTM B280 UNS C12200 H58 copper tubing that has a ASME B31.5 Table 502.3.1-1 minimum allowable stress value that is equal to 9000 psi at 250°F. When the fittings are installed on different grades of copper tube with different thicknesses the pressure-temperature ratings of the joint may be limited to the tube pressure-temperature rating that the fittings are installed on.

Note 4: For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

Note 5: The fittings are not suitable for use with ammonia (R717).

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