

REGISTRATION OF A PRESSURE FITTING DESIGN

May 11, 2026

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

Attention: Cecylia Garbacz

File Number: 104880

Re: Manufacturer: Taizhou Ailun Valve Co., Ltd.
Item: Refrigeration Fittings
Catalog or Drawing: Per Scope of Registration (February 5, 2026) & Design Report R-2282 Rev. 0

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:

0A26576.53

Expiry Date: 2036-04-12

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:

CRN issuance based upon registration by another province under the interprovincial agreement. Conditional upon compliance with the notes on the TSSA registration.

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



Technical Standards & Safety Authority
 345 Carlingview Drive
 Toronto, Ontario
 M9W6N9
 www.tssa.org

DECLARATION OF CONFORMITY REGISTRATION OF FITTINGS

FOR TSSA OFFICE USE ONLY

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



Registration No. 0A26576.53

File No. 104880

Registered

Date: May 11, 2026

Expiry Date: April 12, 2036

Codes & Standards Compliance Office

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



February 5, 2026

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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	

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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).