

Montréal, 12 février 2024.

CECYLIA GARBACZ
TECHNICAL STANDARDS & SAFETY AUTHORITY
345 CARLINGVIEW DRIVE
TORONTO ONTARIO
CANADA M9W6N9

Fabricant : ARI-ARMATUREN
125 MEGELLAN CIRCLE
WEBSTER TX
USA 77598

Numéro de dossier : 944614
Numéro(s) de dessin(s) : Scope of registration -
R-1688 A,B,C,D rev 0/0/0/0

Objet : Enregistrement des plans et devis – Confirmation de l'enregistrement

Bonjour,

Nous vous informons que votre demande d'enregistrement de plans et devis a été traitée et que cette conception a été enregistrée sous le numéro d'enregistrement canadien (NEC\CRN) suivant : **OE07373.56**.

Nous portons votre attention sur certaines exigences réglementaires concernant les installations sous pression, ainsi que des codes et normes qui y sont associés :

- Le fabricant doit maintenir un programme de contrôle de la qualité valide pour fabriquer un équipement selon ce NEC;
- Ce numéro d'enregistrement demeure valide tant et aussi longtemps que les paramètres de conception demeurent inchangés. Dans le cas d'accessoires, l'enregistrement est valide pour une durée de 10 ans à partir de la date d'enregistrement. Les documents de conception doivent alors être resoumis pour validation;
- Le fabricant doit nous transmettre une copie de la *Déclaration de conformité du constructeur (Manufacturer's Data Report)* pour chaque appareil ou chaudière fabriqué selon ce NEC dans les 30 jours suivant la signature de cette déclaration;
- Le numéro de dessin enregistré et le numéro de révision doivent être indiqués sur la déclaration de conformité pour les équipements fabriqués selon ce NEC.

Le présent avis d'approbation ne dégage pas le fabricant de ses responsabilités quant à la conception ou à la construction des équipements ou d'accessoires fabriqués selon un NEC.

Salutations distinguées,

Bureau d'expertise et d'homologation en équipements sous pression

Montréal

255, boul. Crémazie Est, 2^{ième} étage
Montréal (Québec) H2M 1L5
Téléphone : 514 873-2546
Sans frais : 1 866 262-2084
enregistrementdesplans@rbq.gouv.qc.ca
www.rbq.gouv.qc.ca

Montréal, le 12 février 2024.

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345 CARLINGVIEW DRIVE
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Manufacturer : ARI-ARMATUREN
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OUR REFERENCE : 944614
Design number : Scope of registration -
R-1688 A,B,C,D rev 0/0/0/0

Subject: Design registration confirmation

Hi,

We wish to inform you that your design registration application has been evaluated and that it was registered under the following Canadian Registration Number (CRN): **0E07373.56.**

The following is a reminder of your obligations regarding certain requirements of the regulation respecting pressure vessels, and the referenced codes and standards:

- The manufacturer must maintain a valid quality control program to manufacture equipment according to the CRN.
- The CRN remains valid as long as there are no changes to the design calculations that might affect the pressure boundary. The design registration of fittings expires 10 years after acceptance. It must, therefore, be resubmitted for validation.
- The manufacturer shall submit a copy of the *Manufacturer's Data Report* to us for each boiler or pressure vessel manufactured according to this CRN within 30 days following the signing of this report.
- The drawing number and the revision number registered under this CRN must be indicated on the *Manufacturer's Data Report* for equipment manufactured according to the CRN.

This notice of approval does not relieve the manufacturer of their responsibilities with respect to the design or fabrication of equipment manufactured according to this CRN.

Yours sincerely,

Bureau d'expertise et d'homologation en équipements sous pression

Montréal

255, boul. Crémazie Est, 2ième étage
Montréal (Québec) H2M 1L5
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Statutory Declaration Registration of Fittings

(a) Design Qualification



I¹ KEEFE FRENTZ
(Name of applicant)

QUALITY MANAGER
(Position eg, president, plant manager, chief eng.)

of ARI-ARMATUREN
(name of company)

Located at SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX
(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:

comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required: **ASME B16.34**

Or

are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with _____ code and standard, and are designed to the best current engineering practice, as shown by the supporting test data.

(b) Quality control of Manufacture

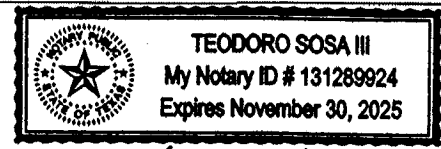
I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of ISO 9001:2015, and has been verified by the following authority or authorized agency TUV

The fittings² covered by this declaration, for which I seek registration, are CATEGORY E STEAM TRAPS

In support of the application, the following information, calculations and/or test data are attached:
SCOPE OF CRN, REPORTS, CATALOGS

Declared before me at Webster
 In the of State of Texas
 The 29th day of April AD 2022

[Signature]
 A (commissioner for oaths)



[Signature]
 Signature of Declarer³

For Official Use Only

The application is accepted for registration in Category _____ in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after ten (10) years from the date of acceptance.

Registered Number CRN _____ For the Chief Inspector _____
 Date _____

¹ Three completed copied of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.

² All fittings are required to be registered in the name of the Manufacturer.

³ This form shall be completed and signed by the president of highest official in the manufacturing plan where the fitting is produced.



SCOPE OF CRN REGISTRATION

Product Description	Design Code	Standard Material (Note 4)	ARI-Armaturen Figure	Size Range	End Connection	Pressure Class	ASME B16.34 Table 2 (Note 3)	MAWP at MAWT (Note 1, 2, 3)	Design Report
CONA SC ANSI Ball Float Steam Trap Drawings VH00000068	ASME B16.34	Carbon Steel ASME SA105, SA216-WCB	42.635	1"	NPT, CL150 Flanged	ANSI 150	1.1	285 psig at -20F/100F 80 psig at 800F	R-1688A R.0
			45.635	1"	NPT, CL300 Flanged	ANSI 300	1.1	740 psig at -20F/100F 410 psig at 800F	
		Stainless Steel ASME SA182-F321, SA351-CF8	52.635	1"	NPT, CL150 Flanged	ANSI 150	2.1 (Note 5)	275 psig at -20F/100F 20 psig at 1000F	
			55.635	1"	NPT, CL300 Flanged	ANSI 300	2.1 (Note 5)	720 psig at -20F/100F 355 psig at 1000F	
		Steel ASME SA350-LF2-1, SA352-LCC	82.635	1"	NPT, CL150 Flanged	ANSI 150	1.1 (Note 6)	285 psig at -20F/100F 125 psig at 650F	
			85.635	1"	NPT, CL300 Flanged	ANSI 300	1.1 (Note 6)	740 psig at -20F/100F 550 psig at 650F	
CONA S ANSI Ball Float Steam Trap Drawings VH00000059	ASME B16.34	Carbon Steel ASME SA105, SA216-WCB	42.639	2", 2-1/2", 3", 4"	CL150 Flanged	ANSI 150	1.1	285 psig at -20F/100F 80 psig at 800F	R-1688B R.0
			45.639	2", 2-1/2", 3", 4"	CL300 Flanged	ANSI 300	1.1	740 psig at -20F/100F 410 psig at 800F	
		Stainless Steel ASME SA182-F321, SA351-CF8	52.639	2", 2-1/2", 3", 4"	CL150 Flanged	ANSI 150	2.1 (Note 5)	275 psig at -20F/100F 20 psig at 1000F	
			55.639	2", 2-1/2", 3", 4"	CL300 Flanged	ANSI 300	2.1 (Note 5)	720 psig at -20F/100F 355 psig at 1000F	
		Steel ASME SA350-LF2-1, SA352-LCC	82.639	2", 2-1/2", 3", 4"	CL150 Flanged	ANSI 150	1.1 (Note 6)	285 psig at -20F/100F 125 psig at 650F	
			85.639	2", 2-1/2", 3", 4"	CL300 Flanged	ANSI 300	1.1 (Note 6)	740 psig at -20F/100F 550 psig at 650F	
CONA B ANSI Bimetallic Steam Trap Drawings VH00000021, VH00000027	ASME B16.34	Steel ASME SA182-F12 CL. 2	86.600	1/2", 3/4"	Socket Weld,	ANSI 400	1.17	1000 psig at -20F/100F 265 psig at 1000F	R-1688C R.0
				1/2", 3/4", 1"	Buttweld, CL400 Flanged				
			87.600	1/2", 3/4"	Socket Weld,	ANSI 600	1.17	1500 psig at -20F/100F 400 psig at 1000F	
				1/2", 3/4", 1"	Buttweld, CL600 Flanged				
			88.600	1/2", 3/4"	Socket Weld,	ANSI 900	1.17	2250 psig at -20F/100F 595 psig at 1000F	
				1/2", 3/4", 1"	Buttweld, CL900 Flanged				



SCOPE OF CRN REGISTRATION CONTINUED

Product Description	Design Code	Standard Material (Note 4)	ARI-Armaturen Figure	Size Range	End Connection	Pressure Class	ASME B16.34 Table 2 (Note 3)	MAWP at MAWT (Note 1, 2, 3)	Design Report
CONA B ANSI Bimetallic Steam Trap Drawings VH00000021, VH00000027	ASME B16.34	Steel ASME SA182-F22 CL. 3	8c.600	1/2", 3/4", 1"	Socket Weld, Butt weld, CL2500 Flanged	ANSI 2500	1.10	6250 psig at -20F/100F 915 psig at 1100F	R-1688C R.0
		Steel ASME SA182-F91	8c.600	1/2", 3/4", 1"	Socket Weld, Butt weld,	ANSI 2500	1.15	6250 psig at -20F/100F 2485 psig at 1100F	
CONA M ANSI Thermostatic Steam Trap Drawings VH00000039, VH00000040, VH00000047	ASME B16.34	Carbon Steel ASME SA105	42.616 4K2, 6K2, 10K2	1", 1-1/2", 2"	NPT, Socket Weld, Butt weld, CL150 Flanged	ANSI 150	1.1	285 psig at -20F/100F 80 psig at 800F	R-1688D R.0
			45.616 4K2, 6K2, 10K2	1", 1-1/2", 2"	NPT, Socket Weld, Butt weld, CL300 Flanged	ANSI 300	1.1	740 psig at -20F/100F 410 psig at 800F	
		Stainless Steel ASME SA182-F321	52.616 4K2, 6K2, 10K2	1", 1-1/2", 2"	NPT, Socket Weld, Butt weld, CL150 Flanged	ANSI 150	2.1	275 psig at -20F/100F 20 psig at 1000F	
			55.616 4K2, 6K2, 10K2	1", 1-1/2", 2"	NPT, Socket Weld, Butt weld, CL300 Flanged	ANSI 300	2.1	720 psig at -20F/100F 355 psig at 1000F	
		Steel ASME SA350-LF2-1	82.616 4K2, 6K2, 10K2	1", 1-1/2", 2"	NPT, Socket Weld, Butt weld, CL150 Flanged	ANSI 150	1.1	285 psig at -20F/100F 80 psig at 800F	
			85.616 4K2, 6K2, 10K2	1", 1-1/2", 2"	NPT, Socket Weld, Butt weld, CL300 Flanged	ANSI 300	1.1	740 psig at -20F/100F 410 psig at 800F	



SCOPE OF CRN REGISTRATION CONTINUED

Note 1: MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature.

Note 2: The pressure-temperature ratings shown are the maximum CRN pressure-temperature ratings. In all cases the MAWP may be limited by the seat or seal material or other considerations. Please consult ARI-Armaturen literature.

Note 3: Pressure-temperature ratings above 100°F are in accordance with applicable ASME B16.34 Table 2 ratings.

Note 4: Other ASME B16.34 materials may be supplied. When this is the case the pressure-temperature ratings of the valves are to be in accordance with the applicable ASME B16.34 Table 2 ratings.

Note 5: Steam traps constructed from a combination of ASME SA351-CF8 and SA182-F321 shall be limited to ASME B16.34 Material Group 2.1 Ratings.

Note 6: Steam traps constructed from a combination of ASME SA350-LF2-1 and SA352-LCC shall be limited to ASME B16.34 Material Group 1.1 Ratings.

Note 7: Per ASME B16.34 para. 2.3.2, the pressure rating for service at any temperature below -20°F shall be no greater than the ASME B16.34 ratings for -20°F. Products that are to operate at low temperatures shall conform to the rules of the applicable codes under which they are used.

Note 8: Pressure-Temperature Ratings of butt-weld end valves may be limited by the butt-weld end pressure rating. Butt-weld end pressure ratings shall be calculated in accordance with the rules of the applicable codes under which they are used.

Note 9: See attached Worldwide Locations Appendix.



WORLDWIDE LOCATIONS APPENDIX – PAGE 1 OF 1

**ARI-ARMATUREN LOCATIONS
& CERTIFYING AUTHORITIES**

(rev. February 20, 2020)

ARI-Armaturen Albert Richter GmbH & Co. KG

Mergelheide 56-60
33758 Schlob Holte-Stukenbrock
Germany

ISO 9001 Certified by TUV

ARI-Armaturen Albert Richter GmbH & Co. KG

Am Eisenwerk 10
34576 Homberg (Efze)
Germany

ISO 9001 Certified by TUV

ARI-Armaturenwerk Halle GmbH

Turmstrabe 118
06110 Halle (Saale)
Germany

ISO 9001 Certified by TUV

ARI-Armaturen A/S

Teknikervei 10
7000 Frederica
Denmark

ISO 9001 Certified by TUV

ARI-Armaturen GmbH

Lichtblaustrabe 10A
1220 Wien
Austria

ISO 9001 Certified by TUV

ARI-Armaturen USA, LP

125 Megellan Circle
Webster, TX
77598, USA

ISO 9001 Certified by TUV