

REGISTRATION OF A PRESSURE FITTING DESIGN

January 22, 2024

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

Attention: Cecylia Garbacz

File Number: 100266

Re: Manufacturer: ARI-Armaturen USA, LP
Item: Steam Traps
Catalog or Drawing: Per Scope of Registration (26-Aug-22) & Design Reports R-1688A/B/C/D Rev. 0/0/0/0

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:

0E7373.53

Expiry Date: 2032-03-15

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:

Addition to existing registration. Conditional upon compliance with the notes on the updated TSSA registration.

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

See Worldwide Locations Appendix (February 20, 2020) for list of manufacturing locations.

Statutory Declaration (Registration of Fittings)

TSK-1008

I. Declaration Information

I, KEEFE FRENTZ
QUALITY MANAGER
(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: ARI-ARMATUREN
(name of manufacturer)

located at: SEE ATTACHED WORLDWIDE LOCATIONS APPENDIX
(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 Safety Act** (check one)

- Comply with the requirements of ASME B16.34 which specifies the dimensions, Materials of construction, pressure / temperature ratings and identification marking of the fittings, or
(title of recognized North American Standard)
- Are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ 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, ISO 9001: 2015 TUV 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 CATEGORY E STEAM TRAPS

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

II. Declaration

DECLARED before me at Webster In the State of Texas
this 29th day of April, 2022
Keefe Frentz (print name) _____ (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 Safety Act** and CSA B51, Clause 4.2, and is accepted for registration in Category _____

Technical Safety Authority of Saskatchewan

Registration No. 0E7373.53

File No. 100266

Registered

Date: January 22, 2024

Expiry Date: March 15, 2032

Codes & Standards Compliance Office

(Date Registered - MM DD YYYY) (Expiry Date - MM DD YYYY)
(For the Administrator / Chief Inspector)



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				

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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	

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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 -20F 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.

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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

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