

REGISTRATION OF A PRESSURE FITTING DESIGN

03-Nov-22

Round Engineering Inc.
10 Segwun Rd.
Waterdown, Ontario
L8B 0K6

Attention: Scott Islip

File Number: 13327 [0 F]

Re: Manufacturer: ARI-Armaturen USA, LP
Item: Steam Trap
Catalog or Drawing: SCOPE OF CRN REGISTRATION Pages 1-6, dated 01-Sep-21

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: March 15, 2032

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,



Williams Uju, P.Eng.
Codes and Standards Compliance

Remarks:

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

Fitting manufacturing can be in any of the authorized locations listed on WORLDWIDE LOCATIONS APPENDIX -
PAGE 1 OF 1.

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)
of: ARI-ARMATUREN
(name of manufacturer)

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.



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.

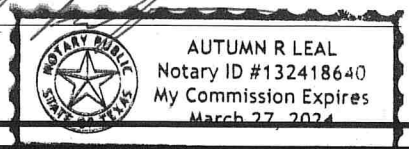
I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority, ISO 9001: 2015 TUV as being suitable for the manufacturer of these fittings to the stated standard. The fittings covered by this declaration, for which 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 Friendswood In the State of Texas
this 29 day of September, 2022
Keefe Frantz (print name) _____ (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 _____

(Registration Number) _____ (Date Registered – MM DD YYYY) _____ (Expiry Date – MM DD YYYY)
(For the Administrator / Chief Inspector)

Technical Safety Authority of Saskatchewan
Registration No. 0E7373.53
File No. 13327
Registered
Date: November 02, 2022
Expiry Date: March 15, 2032
Codes & Standards Compliance Office



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 VII-2- (Note 3)	MAWP at MAWT (Note 1, 2, 3)	Design Report			
CONA SC ANSI Ball Float Steam Trap Drawings VH00000010, VH00000070	ASME B16.34	Carbon Steel ASME SA105, SA216-WCB	42.634	1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	1.1	285 psig at -20F/100F 80 psig at 800F	R-1292A R.0			
			42.636									
		Stainless Steel ASME SA182-F321, SA351-CF8	45.634	1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL300 Flanged	ANSI 300	1.1	740 psig at -20F/100F 410 psig at 800F				
			45.636									
		Steel ASME SA350-LF2-1, SA352-LCC	52.634	1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	2.1 (Note 5)	275 psig at -20F/100F 20 psig at 1000F				
			52.636									
			55.634	1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL300 Flanged	ANSI 300	2.1 (Note 5)	720 psig at -20F/100F 355 psig at 1000F				
			55.636									
			82.634	1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	1.1 (Note 6)	285 psig at -20F/100F 80 psig at 800F				
			82.636									
			85.634	1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL300 Flanged	ANSI 300	1.1 (Note 6)	740 psig at -20F/100F 410 psig at 800F				
			85.636									
CONA S ANSI Ball Float Steam Trap Drawings VH00000012, VH00000058	ASME B16.34	Carbon Steel ASME SA105, SA216-WCB	42.630	1/2", 3/4", 1", 1-1/2", 2",	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	1.1	285 psig at -20F/100F 80 psig at 800F	R-1292B R.0			
				42.631						2-1/2", 3", 4"	CL150 Flanged	
			45.630		1/2", 3/4", 1", 1-1/2", 2",					NPT, Socket Weld, Buttweld, CL300 Flanged	ANSI 300	1.1
				45.631	2-1/2", 3", 4"							

Technical Authority of Saskatchewan
 Registration No. 0E7373.53
 File No. 13327
 Registered
 Date: November 02, 2022
 Expiry Date: March 15, 2032
 Codes & Standards Compliance Office



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 VII-2- (Note 3)	MAWP at MAWT (Note 1, 2, 3)	Design Report
CONA S ANSI Ball Float Steam Trap Drawings VH00000012, VH00000058	ASME B16.34	Stainless Steel ASME SA182-F321, SA351-CF8	52.630 52.631	1/2", 3/4", 1", 1-1/2", 2",	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	2.1 (Note 5)	275 psig at -20F/100F 20 psig at 1000F	R-1292B R.0
				2-1/2", 3", 4"	CL150 Flanged				
			55.630 55.631	1/2", 3/4", 1", 1-1/2", 2",	NPT, Socket Weld, Buttweld, CL300 Flanged	ANSI 300	2.1 (Note 5)	720 psig at -20F/100F 355 psig at 1000F	
				2-1/2", 3", 4"	CL300 Flanged				
		Steel ASME SA350-LF2-1, SA352-LCC	82.630 82.631	1/2", 3/4", 1", 1-1/2", 2",	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	1.1 (Note 6)	285 psig at -20F/100F 80 psig at 800F	
			85.630 85.631	1/2", 3/4", 1", 1-1/2", 2",	NPT, Socket Weld, Buttweld, CL300 Flanged	ANSI 300	1.1 (Note 6)	740 psig at -20F/100F 410 psig at 800F	
		Carbon Steel ASME SA105, SA216-WCB	42.633	1-1/2", 2"	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	1.1	285 psig at -20F/100F 80 psig at 800F	
			45.633	1-1/2", 2"	NPT, Socket Weld, Buttweld, CL300 Flanged	ANSI 300	1.1	740 psig at -20F/100F 410 psig at 800F	



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 VII-2- (Note 3)	MAWP at MAWT (Note 1, 2, 3)	Design Report
CONA S ANSI Ball Float Steam Trap Drawings VH00000012, VH00000058	ASME B16.34	Stainless Steel ASME SA182-F321, SA351-CF8	52.633	1-1/2", 2",	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	2.1 (Note 5)	275 psig at -20F/100F 20 psig at 1000F	R-1292B R.0
				2-1/2", 3", 4"	CL150 Flanged				
			55.633	1-1/2", 2",	NPT, Socket Weld, Buttweld, CL300 Flanged	ANSI 300	2.1 (Note 5)	720 psig at -20F/100F 355 psig at 1000F	
				2-1/2", 3", 4"	CL300 Flanged				
		Steel ASME SA350-LF2-1, SA352-LCC	82.633	1-1/2", 2",	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	1.1 (Note 6)	285 psig at -20F/100F 80 psig at 800F	
			85.633	1-1/2", 2",	NPT, Socket Weld, Buttweld, CL300 Flanged	ANSI 300	1.1 (Note 6)	740 psig at -20F/100F 410 psig at 800F	
CONA B ANSI Bimetallic Steam Trap Drawings VH00000004, VH00000013, VH00000028, VH00000029	ASME B16.34	Carbon Steel ASME SA105	42.600 42.601	1/2", 3/4", 1",	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	1.1	285 psig at -20F/100F 80 psig at 800F	
				1-1/2", 2"					
			45.600 45.601	1/2", 3/4", 1",	NPT, Socket Weld, Buttweld, CL300 Flanged	ANSI 300	1.1	740 psig at -20F/100F 410 psig at 800F	
				1-1/2", 2"					
			47.600 47.601	1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL600 Flanged	ANSI 600	1.1	1480 psig at -20F/100F 825 psig at 800F	



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 VII-2- (Note 3)	MAWP at MAWT (Note 1, 2, 3)	Design Report
CONA B ANSI Bimetallic Steam Trap Drawings VH00000004, VH00000013, VH00000028, VH00000029	ASME B16.34	Stainless Steel ASME SA182-F321	52.600 52.601	1/2", 3/4", 1", 1-1/2", 2"	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	2.4	275 psig at -20F/100F 20 psig at 1000F	R-1292C R.0
		Stainless Steel ASME SA182-F321	55.600 55.601	1/2", 3/4", 1", 1-1/2", 2"	NPT, Socket Weld, Buttweld, CL300 Flanged	ANSI 300	2.4	720 psig at -20F/100F 365 psig at 1000F	
		Steel ASME SA350-LF2-1	82.600 82.601	1/2", 3/4", 1", 1-1/2", 2"	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	1.1	285 psig at -20F/100F 80 psig at 800F	
		Steel ASME SA350-LF2-1	85.600 85.601	1/2", 3/4", 1", 1-1/2", 2"	NPT, Socket Weld, Buttweld, CL300 Flanged	ANSI 300	1.1	740 psig at -20F/100F 410 psig at 800F	
CONA M ANSI Thermostatic Steam Trap Drawings VH00000009, VH00000037	ASME B16.34	Carbon Steel ASME SA105	42.610 42.611 42.612 42.613	1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	1.1	285 psig at -20F/100F 80 psig at 800F	R-1292D R.0
			45.610 45.611 45.612 45.613						
		Stainless Steel ASME SA182-F321	52.610 52.611 52.612 52.613	1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	2.4	275 psig at -20F/100F 20 psig at 1000F	
			55.610 55.611 55.612 55.613						
		Steel ASME SA350-LF2-1	82.610 82.611 82.612 82.613	1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	1.1	285 psig at -20F/100F 80 psig at 800F	



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 VII-2- (Note 3)	MAWP at MAWT (Note 1, 2, 3)	Design Report					
CONA M ANSI Thermostatic Steam Trap Drawings VH00000009, VH00000037	ASME B16.34	Steel ASME SA350-LF2-1	85.610 85.611 85.612 85.613	1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL300 Flanged	ANSI 300	1.1	740 psig at -20F/100F 410 psig at 800F	R-1292D R.0					
CONA TD ANSI Thermodynamic Steam Trap Drawings VH00000011, VH00000075	ASME B16.34	Carbon Steel ASME SA105	42.640 42.641	1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	1.1	285 psig at -20F/100F 80 psig at 800F	R-1292E R.0					
			45.640 45.641							1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL300 Flanged	ANSI 300	1.1	740 psig at -20F/100F 410 psig at 800F
			47.640 47.641											
		Stainless Steel ASME SA182-F321	52.640 52.641	1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	2.4	275 psig at -20F/100F 20 psig at 1000F						
			55.640 55.641							1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL300 Flanged	ANSI 300	2.4	720 psig at -20F/100F 365 psig at 1000F
		Steel ASME SA350-LF2-1	82.640 82.641	1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, CL150 Flanged	ANSI 150	1.1	285 psig at -20F/100F 80 psig at 800F						
			85.640 85.641							1/2", 3/4", 1"	NPT, Socket Weld, Buttweld, 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 -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.