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www.tssa.org

February 5, 2024

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 8212213
Your Reference No.: R-1712
Registered to: AALBERTS INTEGRATED PIPING SYSTEMS AMERICAS, INC.

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 : 0A15729.5R2
Main Design No.: Scope of CRN Registration-January 31,2024
Expiry Date: Feb 05, 2034

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

Please note that this registration does not include ASME B31.9 as a code of construction

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,

A handwritten signature in black ink, appearing to read "Shreyas Madhuranath", is written over a horizontal line.

Shreyas Madhuranath M.Eng, P.Eng
Engineer, BPV
Tel. : +1 416-734-3212
Email : smadhuranath@tssa.org



Technical Standards and Safety Authority
 345 Carlingview Drive
 Toronto, Ontario M9W 6N9
 www.tssa.org

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



STATUTORY DECLARATION Registration of Fittings

I, Daniel Miller, Engineering Manager
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Aalberts Integrated Piping Systems Americas, Inc.
(Name of Manufacturer)

Located at 1418 S. Pearl Street, Pageland, SC, 29728 843-672-6161
(Plant Address) (Telephone No.) (Fax No.)

do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of ASME B31.3

(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

or 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, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001:2015 which has been verified by the following authority, See Attached Worldwide Locations Appendix.

The items covered by this declaration, for which I seek registration, are category A - Press Connect Fittings type fittings. In support of this application, the following information and/or test data are attached as follows:

Scope of CRN, Drawings, Calculations, Reports, Worldwide Locations Appendix
(drawings, calculations, test reports, etc.)

Declared before me at Pageland, SC in the County of Chesterfield of South Carolina
 the 15th day of August AD 2022.

Commissioner for Oaths:
Nancy Strawn
(Printed name)
Nancy Strawn
(Signature)

[Signature]
(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category A.

CRN: _____
 Registered by: _____
 Dated: _____

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0A15729.5R2

Signed:

Date: February 5, 2024.

Feb 05, 2034

Please note that this registration does not include ASME B31.9 as a code of construction

NOTE: This registration expires on: _____

**Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.*

AALBERTS INTEGRATED PIPING SYSTEMS AMERICAS, INC.

10715 SIKES PLACE, SUITE 200
 CHARLOTTE, NC, 28277
 28277



THIS IS PART OF CRN
 0A15729.5R2
 Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety
 Program

31-Jan-24

PAGE 1 OF 9

SCOPE OF CRN REGISTRATION

Product Description	Design Code	Models	Material Specification(s)	Product Size	MAWP at 100°F (Note 1,4)	MAWP at 250°F (Note 1,4)	MDMT (Note 1,2)	Report Number
					When installed on tube with a min. thk. equal to ASTM B88 Type M			
Apollo Press Fittings	ASME B31.3, ASME B31.1, ASME B31.9 Note 3	See Note 5	Copper ASTM B75 UNS C12200, Brass ASTM B927 UNS C27451	1/2"	200 psig at 100°F	160 psig at 250°F	0°F	R-1712 Rev. 0
				3/4"	200 psig at 100°F	160 psig at 250°F		
				1"	200 psig at 100°F	160 psig at 250°F		
				1-1/2"	200 psig at 100°F	160 psig at 250°F		
				2"	190 psig at 100°F	152 psig at 250°F		
				2-1/2"	150 psig at 100°F	120 psig at 250°F		
				3"	150 psig at 100°F	120 psig at 250°F		
				4"	150 psig at 100°F	120 psig at 250°F		

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

Note 2: For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

Note 3: In accordance with Ontario Regulation 220/01 the amendment to CSA B51 - Part 1 Clause 2 does not include ASME B31.9, therefore ASME B31.9 shall not be used as a design code in the Province of Ontario.

Note 4: The CRN Pressure-Temperature ratings are the maximum ratings to be used with the CRN. In all cases the maximum allowable working pressure and temperature may be limited by the seal material or other considerations. Consult product literature.

Note 5: The following **Fitting** items numbers are covered under this CRN.

Model	Description	Part #	Size (in.)	
807	90° Elbow	10075554,	10077676	1/2
		10075556,	10077678	3/4
		10075052,	10077680	1
		10075078,	10077658	1-1/4
		10075080,	10077660	1-1/2
		10075082,	10077662	2

807R	90° Elbow Reducing	10066101	3/4x1/2
		10066083	1x3/4
807C	90° Elbow Short Radius	10062021	2-1/2
		10062027	3
		10062032	4
807L	90° Elbow Long Radius	10062066	2-1/2
		10062067	3
		10062069	4
807-2	90° Street Elbow	10075566	1/2
		10075568	3/4
		10075046	1
		10075072	1-1/4
		10075074	1-1/2
		10075076	2
807C-2	90° Street Elbow Short Radius	10062007	2-1/2
		10062012	3
		10062017	4
807L-2	90° Street Elbow Long Radius	10062071	2-1/2
		10062073	3
		10062074	4
8707-3	90° Elbow Female	10066560	1/2
		10066561	3/4
		10066562	1
		10066563	1-1/4
		10066564	1-1/2
		10066565	2
8707R-3	90° Elbow Female Reducing	10066566	1/2x3/8
		10066567	1/2x3/4
		10066568	3/4x1/2
		10066569	1x1/2
8707-3-5	90° Elbow Drop Ear	10075366	1/2
		10075368	3/4
8707R-3	90° Elbow Drop Ear Reducing	10075367	1/2x3/8
806	45° Elbow	10077670, 10077682	1/2
		10075062, 10077672	3/4
		10075064, 10077674	1
		10075090, 10077652	1-1/4
		10075092, 10077654	1-1/2
		10075094, 10077656	2

		10062052	2-1/2
		10062057	3
		10062062	4
806-2	45° Street Elbow	10075054	1/2
		10075056	3/4
		10075058	1
		10075084	1-1/4
		10075086	1-1/2
		10075088	2
		10062037	2-1/2
		10062042	3
		10062047	4
811	Tee	10077739, 10017739	1/2
		10077740, 10017740	3/4
		10077741, 10017741	1
		10077742, 10017742	1-1/4
		10077743, 10017743	1-1/2
		10077744, 10017744	2
811R, 811BH	Tee Reducing	10077810	1/2 x 1/2 x 3/4
		10077784, 10017784	3/4x1/2x1/2
		10077785	3/4x1/2x3/4
		10077745, 10017745	3/4x3/4x1/2
		10066071	3/4x3/4x1/2
		10077786	1x1/2x3/4
		10077787	1x1/2x1
		10077788	1x3/4x1/2
		10077789	1X3/4x3/4
		10077790	1x3/4x1
		10077746, 10017746	1x1x1/2
		10077747, 10017747	1x1x3/4
		10077791	1-1/4x1/2x1-1/4
		10077792	1-1/4x3/4x3/4
		10077793	1-1/4x3/4x1
		10077794	1-1/4x3/4x1-1/4
		10077795	1-1/4x1x1-1/4
		10077796	1-1/4x1x3/4
		10077797	1-1/4x1x1
		10077748	1-1/4x1-1/4x1/2
		10077749	1-1/4x1-1/4x3/4
10077750	1-1/4x1-1/4x1		
10066397	1-1/4x3/4x1		

		10077798	1-1/4x1x3/4
		10077799	1-1/2x1x1
		10066081	1-1/2x1x1-1/4
		10077800	1-1/2x1x1-1/2
		10077801	1-1/2x1-1/4x3/4
		10077802	1-1/2x1-1/4x1
		10077803	1-1/2x1-1/4x1-1/4
		10077751	1-1/2x1-1/2x1/2
		10077752	1-1/2x1-1/2x3/4
		10077753	1-1/2x1-1/2x1
		10077754	1-1/2x1-1/2x1-1/4
		10066090	1-1/2x1-1/2x2
		10066197	2x1x1-1/2
		10066018	2x1x2
		10077804	2x1-1/4x1-1/4
		10066125	2x1-1/4x1-1/2
		10066064	2x1-1/4x2
		10077805	2x1-1/2x3/4
		10077806	2x1-1/2x1
		10077807	2x1-1/2x1-1/4
		10077808	2x1-1/2x1-1/2
		10077809	2x1-1/2x2
		10077755	2x2x1/2
		10077756	2x2x3/4
		10077757	2x2x1
		10077758	2x2x1-1/4
		10077759	2x2x1-1/2
811	Tee	10077760	2-1/2
		10077761	3
		10077762	4
811R	Tee Reducing	10077763	2-1/2x2-1/2x1/2
		10077764	2-1/2x2-1/2x3/4
		10077765	2-1/2x2-1/2x1
		10077766	2-1/2x2-1/2x1-1/4
		10077767	2-1/2x2-1/2x1-1/2
		10077768	2-1/2x2-1/2x2
		10066604	3x2x2
		10066136	3x2-1/2x2-1/2
		10077769	3x3x1/2
		10077770	3x3x3/4
		10077771	3x3x1

		10077772	3x3x1-1/4
		10077773	3x3x1-1/2
		10077774	3x3x2
		10077775	3x3x2-1/2
		10077776	4x4x1/2
		10077777	4x4x3/4
		10077778	4x4x1
		10077779	4x4x1-1/4
		10077780	4x4x1-1/2
		10077781	4x4x2
		10077782	4x4x2-1/2
		10077783	4x4x3
8712	Tee Female	10066579	1/2
		10066580	3/4
8712R	Tee Female Reducing	10066581	3/4x3/4x1/2
		10066582	1x1x1/2
		10066583	1x1x3/4
		10066584	1-1/4x1-1/4x1/2
		10066585	1-1/4x1-1/4x3/4
		10066586	1-1/2x1-1/2x1/2
		10066587	1-1/2x1-1/2x3/4
		10066588	2x2x1/2
		10066589	2x2x3/4
800	Coupling	10075500, 10077692	1/2
		10075502, 10077693	3/4
		10075504, 10077683	1
		10077698, 10077640	1-1/4
		10077699, 10077642	1-1/2
		10077000, 10077644	2
		10077701	2-1/2
		10077702	3
		10077703	4
801	Coupling No Stop	10075513, 10077691	1/2
		10075515, 10077694	3/4
		10075517, 10077687	1
		10077695, 10077646	1-1/4
		10077696, 10077648	1-1/2
		10077697, 10077650	2
801R	Coupling No Stop Reducing	10075900	3/4x1/2
		10075144	1x1/2
		10075898	1x3/4

		10066001	1-1/4x3/4
		10075896	1-1/4x1
		10066380	1-1/2x1/2
		10066381	1-1/2x3/4
		10066003	1-1/2x1
		10075128	1-1/2x1-1/4
		10066398	2x3/4
		10066005	2x1
		10066072	2-1-1/4
		10075130	2x1-1/2
801L	Coupling No Stop Extended	10075030	1/2
		10075032	3/4
		10075034	1
801	Coupling No Stop	10061932	2-1/2
		10061937	3
		10061942	4
801R	Coupling No Stop Reducing	10066440	2-1/2x1
		10066074	2-1/2x2
		10066446	3x2
		10066076	3x2-1/2
		10066447	4x2
		10066152	4x3
818	Fitting Reducer	10075146	3/4x1/2
		10075150	1x1/2
		10075148	1x3/4
		10075336	1-1/4x1/2
		10075154	1-1/4x3/4
		10075156	1-1/4x1
		10075334	1-1/2x3/4
		10075158	1-1/2x1
		10075160	1-1/2x1-1/4
		10075338	2x1/2
		10075340	2x3/4
		10075162	2x1
		10075152	2x1-1/4
		10075164	2x1-1/2
		10068001	2-1/2x3/4
		10068002	2-1/2x1
		10068017	2-1/2x1-1/4
		10068004	2-1/2x1-1/2
		10075165	2-1/2x2

		10068019	3x3/4
		10068008	3x1-1/4
		10068020	3x1-1/2
		10068010	3x2
		10057500	3x2-1/2
		10068022	4x3/4
		10068016	4x2
		10057503	4x2-1/2
		10057506	4x3
803	Adapter Female	10075750	1/2
		10075752	3/4
		10075754	1
		10075756	1-1/4
		10075758	1-1/2
		10075760	2
803R	Adapter Female Reducing	10075780	1/2x3/8
		10075782	1/2x3/4
		10075784	3/4x1/2
		10075796	1x1/2
		10075798	1x3/4
		10075800	1x1-1/4
		10075786	1-1/4x1/2
		10075788	1-1/4x1
		10075790	1-1/4x1-1/2
		10075792	1-1/2x3/4
		10075794	1-1/2x1-1/4
803-2	Street Adapter Female	10075762	1/2
		10075768	3/4
		10075772	1
		10075774	1-1/4
		10075776	1-1/2
		10075778	2
803R-2	Street Adapter Female Reducing	10075764	1/2x3/8
		10075766	1/2x3/4
		10075770	3/4x1/2
		10075804	1x1/2
		10075802	1-1/4x1/2
804	Adapter Male	10075806	1/2
		10075808	3/4
		10075844	1
		10075810	1-1/4

		10075812	1-1/2
		10075814	2
804R	Adapter Male Reducing	10075836	1/2x3/8
		10075838	1/2x3/4
		10075840	3/4x1/2
		10075842	3/4x1
		10075854	1x3/4
		10075856	1x1-1/4
		10075846	1-1-1/4x1
		10075848	1-1/4x1-1/2
		10075850	1-1/2x1-1/4
		10075852	1-1/2x2
		10075858	2x1-1/2
804	Adapter Male	10061982	2-1/2
		10061987	3
		10061992	4
804-2	Street Adapter Male	10075816	1/2
		10075822	3/4
		10075826	1
		10075828	1-1/4
		10075830	1-1/2
		10075834	2
804R-2	Street Adapter Male Reducing	10075818	1/2x3/8
		10075820	1/2x3/4
		10075824	3/4x1/2
		10075832	1x3/4
8741	Flange Adapter CL125	10075702	2
		10061761	2-1/2
		10061767	3
		10061736	4
8771	Flange Adapter CL150	10061763	2-1/2
		10061769	3
		10061738	4
8733	Union	10075860	1/2
		10075862	3/4
		10075864	1
		10075866	1-1/4
		10075868	1-1/2
		10075870	2
8733-3	Union Female	10075872	1/2
		10075874	3/4

		10075876	1
		10075878	1-1/4
		10075880	1-1/2
		10075882	2
8733-4	Union Male	10075884	1/2
		10075886	3/4
		10075888	1
		10075890	1-1/4
		10075892	1-1/2
		10075894	2
8734	Dielectric Union Female	10077914	1/2
		10077920	3/4
		10077926	1
		10077932	1-1/4
		10077938	1-1/2
		10077944	2
817	Tube Cap	10077850	1/2
		10077851	3/4
		10077852	1
		10075172	1-1/4
		10075174	1-1/2
		10075176	2
		10062142	2-1/2
		10062147	3
		10062152	4
836	Cross-Over	10075370	1/2
		10075372	3/4

Note 6: See attached Worldwide Locations Appendix applicable to this CRN.

WORLDWIDE LOCATIONS APPENDIX – PAGE 1 OF 2

LOCATIONS & CERTIFYING AUTHORITIES

(rev. July 19, 2022)

Aalberts integrated Piping Systems Americas, Inc.
10715 Sikes Place, Suite 200
Charlotte, NC, 28277
ISO 9001:2015 Certified by IAPMO R&T

Aalberts Integrated Piping Systems Americas, Inc.
1418 S. Pearl Street
Pageland, SC 29728
USA
ISO 9001:2015 Certified by IAPMO R&T

THIS IS PART OF CRN
0A15729.5R2
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

Aalberts Integrated Piping Systems Americas, Inc.
1509 South Van Lingle
Mungo Blvd
Pageland, SC 29728
ISO 9001:2015 Certified by IAPMO R&T

Aalberts Integrated Piping Systems Americas, Inc.
125 Highway 501 East
Conway, SC 29526
ISO 9001:2015 Certified by IAPMO R&T

In addition, in accordance with CSA B51 paragraph 4.2.5 Aalberts Integrated Piping Systems Americas, Inc. is taking responsibility for the product covered under this CRN that is manufactured at:

Elkhart Products Corporation
1255 Oak Street
Elkhart, IN 46514
ISO 9001:2015 Certified by Hartford Steam Boiler

Aalberts Integrated Piping Systems Ltd.
Belmont Works
St. Catherines Avenue
Doncaster
DN4 8DF
United Kingdom
ISO 9001:2015 Certified by bsi

WORLDWIDE LOCATIONS APPENDIX – PAGE 2 OF 2

LOCATIONS & CERTIFYING AUTHORITIES

(rev. July 19, 2022)

Aalberts Integrated Piping Systems SAS

46. rue de l'Industrie
Saint Denis de l'Hotel
45550
France

ISO 9001:2015 Certified by bsi

Aalberts Integrated Piping Systems Kft

Gyarto Kft
Maglodi ut 16
Budapest
H-1106
Hungary

ISO 9001:2015 Certified by bsi