

## REGISTRATION OF A PRESSURE FITTING DESIGN

December 6, 2023

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

**Attention: Cecylia Garbacz**

**File Number: 100087**

**Re: Manufacturer:** AALBERTS INTEGRATED PIPING SYSTEMS AMERICAS, INC.  
**Item:** Apollo Smart-Press Ball Valves  
**Catalog or Drawing:** Per Scope of Registration (03-May-23) & Design Report R-1547A 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:

**OC24868.53**

**Expiry Date: 2033-10-20**

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:**

Conditional upon compliance with the notes on the original 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 (rev. May 3, 2023) for list of manufacturing locations.

**Statutory Declaration (Registration of Fittings)**

**TSK-1008**

**I. Declaration Information**

I, Julie Howell,  
Director of New Product Engineering  
(company title, e.g. vice president, plant manager, ch  
(must be in a position of authority in the manufacturing plant where

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

of: Aalberts Integrated Piping Systems Americas, Inc.  
(name of manufacturer)






located at: 10715 Sikes Place, Suite 200 Charlotte, NC 28277  
(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 B31.3, B31.1, B31.9 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, See Worldwide Locations Appendix 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 C - PRESS CONNECT VALVES

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

**II. Declaration**

DECLARED before me at Charlotte In the county of Mecklenburg  
this 5<sup>th</sup> day of June, 2023

Joseph Karian (print name) Julie Howell (Signature)  
[Signature] (Signature of Commissioner of Oaths)  
JOSEPH KARIAN  
Notary Public, North Carolina  
Mecklenburg County  
My Commission Expires 11/29/24

**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. 0C24868.53  
File No. 100087  
**Registered**  
Date: December 6, 2023  
Expiry Date: October 20, 2033  
Codes & Standards Compliance Office

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

# AALBERTS INTEGRATED PIPING SYSTEMS AMERICAS, INC.

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



**Technical Safety Authority of Saskatchewan**  
 Registration No. 0C24868.53  
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03-May-23

PAGE 1 OF 4

## SCOPE OF CRN REGISTRATION

Product Description	Design Code	FullFlow Models	Material Specification	Product Size	MAWP at 100°F	MAWP at 392°F (Note 4,5)	MDMT	Report Number
					When installed on ASTM A312 Sch. 5S Pipe Minimum Thickness			
Apollo Smart-Press Valves	ASME B31.3, ASME B31.1, ASME B31.9 <b>(Note 3)</b>	SM500H, SM500E, SM500F <b>(Note 6)</b>	Stainless steel pipe in accordance with EN10217-7 meeting the requirements of ASTM A312-316L	1/2"	300 psig at 100°F	300 psig at 392°F	-31°F	R-1547A Rev. 0
				3/4"	300 psig at 100°F	300 psig at 392°F		
				1"	300 psig at 100°F	300 psig at 392°F		
				1-1/2"	300 psig at 100°F	300 psig at 392°F		
				2"	300 psig at 100°F	300 psig at 392°F		

Product Description	Design Code	3-Piece Models	Material Specification	Product Size	MAWP at 100°F	MAWP at 392°F (Note 4,5)	MDMT	Report Number
					When installed on ASTM A312 Sch. 5S Pipe Minimum Thickness			
Apollo Smart-Press Valves	ASME B31.3, ASME B31.1, ASME B31.9 <b>(Note 3)</b>	86VH, 86VHFP, 86VE, 86VESE, 86VEFP, 86VESEFP, 86VF, 86VFFP <b>(Note 6)</b>	Stainless Steel ASTM A351-CF8M, ASTM A351-CF3M	1/2"	300 psig at 100°F	300 psig at 392°F	-31°F	R-1547A Rev. 0
				3/4"	300 psig at 100°F	300 psig at 392°F		
				1"	300 psig at 100°F	300 psig at 392°F		
				1-1/2"	300 psig at 100°F	300 psig at 392°F		
				2"	210 psig at 100°F	210 psig at 392°F		

Product Description	Design Code	3-Piece Models	Material Specification	Product Size	MAWP at 100°F	MAWP at 392°F (Note 4,5)	MDMT	Report Number
					When installed on ASTM A312 Sch. 10S Pipe Minimum Thickness			
Apollo Smart-Press Valves	ASME B31.3, ASME B31.1, ASME B31.9 <b>(Note 3)</b>	86VH, 86VHFP, 86VE, 86VESE, 86VEFP, 86VESEFP, 86VF, 86VFFP <b>(Note 6)</b>	Stainless Steel ASTM A351-CF8M, ASTM A351-CF3M	1/2"	500 psig at 100°F	500 psig at 392°F	-31°F	R-1547A Rev. 0
				3/4"	500 psig at 100°F	500 psig at 392°F		
				1"	500 psig at 100°F	500 psig at 392°F		
				1-1/2"	300 psig at 100°F	300 psig at 392°F		
				2"	250 psig at 100°F	250 psig at 392°F		

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

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PAGE 2 OF 4

## SCOPE OF CRN REGISTRATION CONTINUED

**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 seal and seat materials or other considerations. Consult product literature.

**Note 5:** The valves are suitable up to a maximum temperature of 446°F for short term operation depending on the seal and seat materials. Consult product literature.

**Note 6:** The following **FullFlow ball valves** items numbers are covered under this CRN.

Valve Model	Item Number	Product description
SM500E	123457171	Apollo SmartPress FullFlow ball valve HNBR FF 1/2"
	123457172	Apollo SmartPress FullFlow ball valve HNBR FF 3/4"
	123457173	Apollo SmartPress FullFlow ball valve HNBR FF 1"
	123457174	Apollo SmartPress FullFlow ball valve HNBR FF 1 1/2"
	123457175	Apollo SmartPress FullFlow ball valve HNBR FF 2"
SM500H	123457176	Apollo SmartPress FullFlow ball valve EPDM FF 1/2"
	123457177	Apollo SmartPress FullFlow ball valve EPDM FF 3/4"
	123457178	Apollo SmartPress FullFlow ball valve EPDM FF 1"
	123457179	Apollo SmartPress FullFlow ball valve EPDM FF 1 1/2"
	123457180	Apollo SmartPress FullFlow ball valve EPDM FF 2"
SM500F	123457181	Apollo SmartPress FullFlow ball valve FPM FF 1/2"
	123457182	Apollo SmartPress FullFlow ball valve FPM FF 3/4"
	123457183	Apollo SmartPress FullFlow ball valve FPM FF 1"
	123457184	Apollo SmartPress FullFlow ball valve FPM FF 1 1/2"
	123457185	Apollo SmartPress FullFlow ball valve FPM FF 2"



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**SCOPE OF CRN REGISTRATION CONTINUED**

The following **3-Piece ball valves** items numbers are covered under this CRN.

Valve Model	Item Number	Product description
86VE	123457451	Apollo SmartPress AISI316 3 Piece Ball Valve EPDM FF 1/2"
	123457452	Apollo SmartPress AISI316 3 Piece Ball Valve EPDM FF 3/4"
	123457453	Apollo SmartPress AISI316 3 Piece Ball Valve EPDM FF 1"
	123457454	Apollo SmartPress AISI316 3 Piece Ball Valve EPDM FF 1 1/2"
	123457455	Apollo SmartPress AISI316 3 Piece Ball Valve EPDM FF 2"
86VESE	123457456	Apollo SmartPress AISI316 3 Piece Ball Valve with extended stem EPDM FF 1/2"
	123457457	Apollo SmartPress AISI316 3 Piece Ball Valve with extended stem EPDM FF 3/4"
	123457458	Apollo SmartPress AISI316 3 Piece Ball Valve with extended stem EPDM FF 1"
	123457459	Apollo SmartPress AISI316 3 Piece Ball Valve with extended stem EPDM FF 1 1/2"
	123457460	Apollo SmartPress AISI316 3 Piece Ball Valve with extended stem EPDM FF 2"
86VH	123457461	Apollo SmartPress AISI316 3 Piece Ball Valve HNBR FF 1/2"
	123457462	Apollo SmartPress AISI316 3 Piece Ball Valve HNBR FF 3/4"
	123457463	Apollo SmartPress AISI316 3 Piece Ball Valve HNBR FF 1"
	123457464	Apollo SmartPress AISI316 3 Piece Ball Valve HNBR FF 1 1/2"
	123457465	Apollo SmartPress AISI316 3 Piece Ball Valve HNBR FF 2"
86VF	123457466	Apollo SmartPress AISI316 3 Piece Ball Valve FKM FF 1/2"
	123457467	Apollo SmartPress AISI316 3 Piece Ball Valve FKM FF 3/4"
	123457468	Apollo SmartPress AISI316 3 Piece Ball Valve FKM FF 1"
	123457469	Apollo SmartPress AISI316 3 Piece Ball Valve FKM FF 1 1/2"
	123457470	Apollo SmartPress AISI316 3 Piece Ball Valve FKM FF 2"
86VEFP	123457471	Apollo SmartPress AISI316 3 Piece Ball Valve EPDM 1/2"xFPT1/2"
	123457472	Apollo SmartPress AISI316 3 Piece Ball Valve EPDM 3/4"xFPT3/4"
	123457473	Apollo SmartPress AISI316 3 Piece Ball Valve EPDM 1"xFPT1"
	123457474	Apollo SmartPress AISI316 3 Piece Ball Valve EPDM 1 1/2"xFPT1 1/2"
	123457475	Apollo SmartPress AISI316 3 Piece Ball Valve EPDM 2"xFPT2"
86VESEFP	123457476	Apollo SmartPress AISI316 3 Piece Ball Valve EPDM with extended stem 1/2"xFPT1/2"
	123457477	Apollo SmartPress AISI316 3 Piece Ball Valve EPDM with extended stem 3/4"xFPT3/4"
	123457478	Apollo SmartPress AISI316 3 Piece Ball Valve EPDM with extended stem 1"xFPT1"
	123457479	Apollo SmartPress AISI316 3 Piece Ball Valve EPDM with extended stem 1 1/2"xFPT1 1/2"
	123457480	Apollo SmartPress AISI316 3 Piece Ball Valve EPDM with extended stem 2"xFPT2"

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03-May-23

PAGE 4 OF 4

**SCOPE OF CRN REGISTRATION CONTINUED**

The following **3-Piece ball valves** items numbers are covered under this CRN.

86VHFP	123457481	Apollo SmartPress AISI316 3 Piece Ball Valve HNBR 1/2"xFPT1/2"
	123457482	Apollo SmartPress AISI316 3 Piece Ball Valve HNBR 3/4"xFPT3/4"
	123457483	Apollo SmartPress AISI316 3 Piece Ball Valve HNBR 1"xFPT1"
	123457484	Apollo SmartPress AISI316 3 Piece Ball Valve HNBR 1 1/2"xFPT1 1/2"
	123457485	Apollo SmartPress AISI316 3 Piece Ball Valve HNBR 2"xFPT2"
86VFFP	123457486	Apollo SmartPress AISI316 3 Piece Ball Valve FKM 1/2"xFPT1/2"
	123457487	Apollo SmartPress AISI316 3 Piece Ball Valve FKM 3/4"xFPT3/4"
	123457488	Apollo SmartPress AISI316 3 Piece Ball Valve FKM 1"xFPT1"
	123457489	Apollo SmartPress AISI316 3 Piece Ball Valve FKM 1 1/2"xFPT1 1/2"
	123457490	Apollo SmartPress AISI316 3 Piece Ball Valve FKM 2"xFPT2"

**Note 7:** See attached Worldwide Locations Appendix applicable to this CRN.

The form is from the Technical Safety Authority of Saskatchewan. It contains the following information: Registration No. 0C24868.53, File No. 100087, a 'Registered' status box, Date: December 6, 2023, and Expiry Date: October 20, 2033. The footer reads 'Codes & Standards Compliance Office'.

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**WORLDWIDE LOCATIONS APPENDIX – PAGE 1 OF 2**

**LOCATIONS & CERTIFYING AUTHORITIES**

**(rev. May 3, 2023)**

**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**

**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. May 3, 2023)**

**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**

**Aalberts Integrated Piping Systems B.V**

Oude Amersfoortseweg 99, 1212 AA  
Hilversum, Netherlands

**ISO 9001:2015 Certified by DNV**

**Aalberts Integrated Piping Systems B.V**

Productieweg 8, 3899AK Zeewolde,  
Netherlands

**ISO 9001:2015 Certified by DNV**

**Aalberts Integrated Piping Systems B.V**

Propaanstraat 8/10, 7463PN Rijssen,  
Netherlands

**ISO 9001:2015 Certified by DNV**

