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[www.tssa.org](http://www.tssa.org)

October 20, 2023

ROUND ENGINEERING INC  
10 SEGWUN RD  
WATERDOWN ON L8B 0K6  
CANADA

**Workorder Type:** Registration - Fitting(Conventional)  
**Workorder No:** 14038431  
**Your Reference No.:** R-1547A  
**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 : 0C24868.5  
Main Design No.: APOLLO SMART-PRESS BALL VALVES - SCOPE OF CRN REGISTRATION & WORLDWIDE LOCATIONS APPENDIX  
Expiry Date: Oct 20, 2033

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

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](mailto: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,

Wendy Du  
Engineer, BPV  
Tel. : +1 416-734-3566  
Email : [wdu@tssa.org](mailto:wdu@tssa.org)



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



integrated piping systems



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, Julie Howell, Director of New Product Engineering  
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

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

Located at 10715 Sikes Place, Suite 200 Charlotte, NC, 28277 704-847-9191  
(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, B31.1, B31.9

(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.

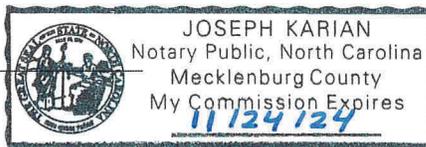
The items covered by this declaration, for which I seek registration, are category C - Press Connect Valves type fittings. In support of this application, the following information and/or test data are attached as follows:

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

Declared before me at Charlotte in the county of Mecklenburg  
 the 5<sup>th</sup> day of June AD 2023.

Commissioner for Oaths:

Joseph Karian  
(Printed name)  
  
(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 \_\_\_\_\_.

CRN: \_\_\_\_\_

Registered by: \_\_\_\_\_

Dated: \_\_\_\_\_

**NOTE: This registration expires on: Oct. 20, 2033**

Technical Standards and Safety Authority  
 Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0C24868.5

Signed: WJ

Date: October 20, 2023.

DESIGN CODES: ASME B31.3 & B31.1

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



**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 (Note 3)	SM500H, SM500E, SM500F (Note 6)	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 (Note 3)	86VH, 86VHFP, 86VE, 86VESE, 86VEFP, 86VESEFP, 86VF, 86VFFP (Note 6)	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 (Note 3)	86VH, 86VHFP, 86VE, 86VESE, 86VEFP, 86VESEFP, 86VF, 86VFFP (Note 6)	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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**0C24868.5**  
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 Boilers and Pressure Vessels Safety Program



**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"



**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"

**AALBERTS INTEGRATED PIPING SYSTEMS AMERICAS, INC.**

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



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.

**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**

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Boilers and Pressure Vessels Safety  
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**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**

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